







FIGURE 10: 2015 TOP INFRARED AERIAL

REVISIONS

| N | |
|-------------------|-----|
| <u> </u> | |
| | |
| (\rightarrow) | |
| | L L |
| | |

| CSJ: | 2690-01-043 |
|-----------|-------------------------------|
| For: | The City of Georgetown |
| Location: | FM 971 from Gann St to SH 130 |
| | Williamson County, Texas |







Attachment 2 - Wetland Determination Data Forms and APT Output

| Project/Site: FM 971 | | City/County | : Georgetow | n/Williamson | Sam | pling Date | : 7/1 | 3/2023 |
|--|-----------------------|---------------|---------------------------|--|-------------------------------|-------------------------|------------------------|---------|
| Applicant/Owner: City of Georgetown | | _ | | State: T | X Sam | oling Poin | t: L | Jp 1 |
| Investigator(s): Jason Sellers, Tamura Dunbar | | Se | ection, Town | ship, Range: <u>n/a</u> | | | | |
| Landform (hillside, terrace, etc.): Stream Bank | | Local relie | f (concave, co | onvex, none): <u>conc</u> a | ave | Slope (% | %): | 1 |
| Subregion: LRR J, MLRA 86A Lat: | 30.65628 | | .ong: | -97.662932 | Datum: | [| NAD 83 | |
| Soil Map Unit Name: Ecrant cobbly clay, 1 to 8 percent | t slopes (Eac | 1) | | NWI | classification: | | n/a | |
| Are climatic / hydrologic conditions on the site typical for | or this time o | of year? | Yes X | No (If r | no, explain in | Remarks. |) | |
| Are Vegetation No , Soil No , or Hydrology No s | significantly o | disturbed? | Are "Normal (| Circumstances" pre | esent? Yes | х | No | |
| Are Vegetation No , Soil No , or Hydrology No i | naturally prob | olematic? (| If needed, ex | kplain any answers | in Remarks.) | | | - |
| SUMMARY OF FINDINGS – Attach site map sl | howing sa | mpling poin | t locations | s, transects, imp | oortant feat | ures, etc |). | |
| Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No | x x x x x | ls th wit | le Sampled hin a Wetla | Area nd? Yes_ | | No | x | _ |
| Remarks: This location does not meet the criteria to be consider | red a wetland | d. | | | | | | |
| VEGETATION – Use scientific names of pla | ints. | | | | | | | |
| · · · | Absolute | Dominant | Indicator | | | | | |
| Tree Stratum (Plot size: <u>30-ft radius</u>) | % Cover | Species? | Status | Dominance Te | st worksheet | ;= | | |
| Celtis laevigata Ulmus crassifolia | 20 | Yes | FAC | Number of Dom | inant Species | 3 That | 2 | (A) |
| 3. | 20 | 103 | TAO | Total Number of | f Dominant S | | 2 | _(//) |
| 4. | | | | Across All Strat | a: | Jecles | 5 | (B) |
| 5. | | | | Percent of Dom | inant Species | That | | - |
| | 50 | = Total Cover | | Are OBL, FACV | V, or FAC: | | 40.0% | (A/B) |
| Sapling/Shrub Stratum (Plot size: 15-ft radius | _) | Mar | | Describer of last | | | | |
| 1. Ligustrum sinense | 20 | Yes | UPL | Total % Co | iex worksnee | Aultin | alv by: | |
| 3. | | | | OBL species | 0 | x 1 = | 0 | - |
| 4. | | | | FACW species | 0 | x 2 = | 0 | - |
| 5. | | | | FAC species | 50 | x 3 = | 150 | |
| | 20 | = Total Cover | | FACU species | 20 | x 4 = | 80 | - |
| Herb Stratum (Plot size: <u>5-ft radius</u>) | | | | UPL species | 20 | x 5 = | 100 | |
| 1. Toxicodendron radicans | 20 | Yes | FACU | Column Totals: | 90 (/ | A) | 330 | (B) |
| 2. Torilis arvensis | 15 | Yes | NI | Development | D/A | 0 | 07 | |
| 3. | | | | Prevalence II | ndex = B/A = | 3. | 67 | |
| 4. | | | | Hydrophytic Ve | egetation Ind | Icators: | atation | |
| 5 | | | | 2 - Dominar | nce Test is >F | SO% | etation | |
| 7 | | | | 3 - Prevaler | nce Index is < | .3 0 ¹ | | |
| 8. | | | | 4 - Morphol | ogical Adapta | tions ¹ (Pr | ovide sup | porting |
| 9. | | | | data in Re | emarks or on a | ı separate | sheet) | |
| 10 | | | | Problematio | c Hydrophytic | Vegetatic | on ¹ (Expla | ain) |
| Woody Vine Stratum (Plot size: 30-ft radius | 35 | = Total Cover | | ¹ Indicators of hy be present, unle | /dric soil and sess disturbed | wetland h or probler | ydrology natic. | must |
| 1 | | | | Hydrophytic | | | | |
| 2 | | | | Vegetation | | | | |
| | | = Total Cover | | Present? | Yes | No | x | |

Remarks:

Hydrophitic vegetation indicators were not observed at this location. % Bare Ground in Herb Stratum was 65%.

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) | |
|---|---|
| Depth Matrix Redox Features | |
| (inches) Color (moist) % Color (moist) % Type ¹ \log^2 Texture Remarks | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| ¹ Tyrae, C=Concentration, D=Depletion, DM=Deduced Matrix, CS=Covered or Costed Send Crains, 2 ² Leastion, DL=Dere Lining, M | -Motrix |
| Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coaled Sand Grains. Location: PL=Pore Lining, Matrix Solution: | |
| Histored (A1) Sandy Gloved Matrix (S4) 1 cm Muck (A0) (LPP L I) | 0115 . |
| Histic Eninedon (A2) Sandy Bedox (S5) Coast Prairie Redox (A16) (LRR 1, 3) | с н) |
| Black Histic (A3) Stripped Matrix (S6) Dark Surface (S7) (LRR P | , G , H) |
| Hydrogen Sulfide (A4) Loamy Mucky Mineral (E1) High Plains Depressions (E16) | |
| Stratified Lavers (A5) (LRR F) Loamy Gleved Matrix (F2) (LRR H outside MLRA 72 & 73) | |
| 1 cm Muck (A9) (LRR F. G. H) Depleted Matrix (F3) Reduced Vertic (F18) | |
| Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Red Parent Material (TF2) | |
| Thick Dark Surface (A12) Depleted Dark Surface (F7) Very Shallow Dark Surface (TF12 | 2) |
| Sandy Mucky Mineral (S1) Redox Depressions (F8) Other (Explain in Remarks) | 7 |
| 2.5 cm Mucky Peat or Peat (S2)(LRR G,H) High Plains Depressions (F16) | a munat ha |
| 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) present, unless disturbed or problematic. | ogy must be |
| Restrictive Laver (if present): | |
| | |
| Depth (inches): Hydric Soil Present? Yes | No X |
| | |
| Remarks: Hydric soil indicators were not observed at this location | |
| | |
| | |
| HYDROLOGY | |
| | |
| Wettand Hydrology Indicators: | |
| Primary indicators (minimum of one required, check all that apply) Secondary indicators (minimum of two | |
| Suitace Water (A1)Sait Clust (B11)Suitace Soil Clacks (B0) | <u>o requirea)</u> |
| TIUT WALE TADIE (AZ) AUULIC IIVEREDIALES (D IS) Sparsely vegetaleu Concave Sui | face (P ²) |
| Sofurction (A2) | face (B8) |
| Saturation (A3) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Water Marks (B1) Dry Sossen Water Table (C2) Drainage Patterns (B10) | face (B8) |
| Saturation (A3) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Water Marks (B1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) | face (B8) Roots (C3) |
| | face (B8) Roots (C3) |
| | face (B8) Roots (C3) |
| Saturation (A3) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Water Marks (B1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Drift Deposits (B3) (where not tilled) Crayfish Burrows (C8) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Image | face (B8) Roots (C3) эry (C9) |
| Saturation (A3) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Water Marks (B1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Drift Deposits (B3) (where not tilled) Crayfish Burrows (C8) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) FAC-Neutral Test (D5) | face (B8) Roots (C3) ery (C9) |
| Saturation (A3) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Water Marks (B1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Drift Deposits (B3) (where not tilled) Crayfish Burrows (C8) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Image Iron Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Forst-Heave Hummocks (D7) (LR | face (B8) Roots (C3) ∋ry (C9) R F) |
| | face (B8) Roots (C3) ∋ry (C9) R F) |
| Saturation (A3) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Water Marks (B1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Drift Deposits (B3) (where not tilled) Crayfish Burrows (C8) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imager Iron Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Forst-Heave Hummocks (D7) (LR | face (B8) Roots (C3) ery (C9) R F) |

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

No

Depth (inches):

Remarks:

Saturation Present?

(includes capillary fringe)

Hydrologic indicators were not observed at this location.

Yes

No X

Wetland Hydrology Present? Yes

| Project/Site: FM 971 | | City/Co | unty: Geo | orgetowr | /Williamson | Sa | ampling Da | ate: 7/* | 13/2023 |
|--|-----------------|------------|----------------------|-------------------|--|-------------------------------|--|-------------------------|-----------|
| Applicant/Owner: City of Georgetown | | | | | State:T | X Sa | mpling Po | int: | Up 2 |
| Investigator(s): Jason Sellers, Tamura Dunbar | | | Sectior | n, Towns | hip, Range: <u>n/a</u> | | | | |
| Landform (hillside, terrace, etc.): Upland Slope | | Local | relief (con | ncave, co | nvex, none): <u>conc</u> | ave | Slope | (%): | 3 |
| Subregion: LRR J, MLRA 86A Lat: | 30.65623 | 32 | Long: | | -97.662682 | Datu | ım: | NAD 83 | 5 |
| Soil Map Unit Name: Ecrant cobbly clay, 1 to 8 percent | t slopes (Ead |) | | | NWI | classificati | on: | n/a | |
| Are climatic / hydrologic conditions on the site typical f | or this time o | f year? | Yes | Х | No (If r | no, explain | in Remark | s.) | |
| Are Vegetation No , Soil No , or Hydrology No | significantly o | listurbed? | ? Are "N | Normal C | Circumstances" pre | esent? Y | ′es_X_ | No | |
| Are Vegetation No , Soil No , or Hydrology No | naturally prob | lematic? | (If nee | eded, ex | plain any answers | in Remark | (s.) | | |
| SUMMARY OF FINDINGS – Attach site map si | howing sar | npling p | ooint loo | cations | , transects, imp | oortant fe | atures, e | etc. | |
| Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No | | ŀ | s the Sa within a | mpled a Wetlar | Area nd? Yes | | No | X | _ |
| Remarks: This location does not meet the criteria to be conside | red a wetland | I. | | | | | | | |
| VEGETATION – Use scientific names of pla | ints. | | | | | | | | |
| | Absolute | Domina | ant Ind | icator | Dominanaa Ta | - 4 ul h | 4: | | |
| Tree Stratum (Plot size: | % Cover | Species | <u>s?</u> <u>St</u> | atus | Number of Dom | inant Spec | eet: cies That | 0 | (Δ) |
| 3 | | | | | | V, UI FAC. | - - | 0 | _(^) |
| 4. | | | | | Across All Strat | a: | Species | 2 | (B) |
| 5 | | = Total Co | over | | Percent of Dom Are OBL, FACV | inant Spec V, or FAC: | ies That - | 0.0% | (A/B) |
| 1. | _) | | | | Prevalence Ind | lex worksł | neet: | | |
| 2. | | | | | Total % Co | over of: | Mu | Itiply by: | |
| 3. | | | | | OBL species | 0 | x 1 = | 0 | |
| 4 | | | | | FACW species | 0 | x 2 = | 0 | |
| 5 | | | | | FAC species | 0 | x 3 = | 0 | |
| | : | = Total Co | over | | FACU species | 80 | x 4 = | 320 | _ |
| <u>Herb Stratum</u> (Plot size: <u>5-ft radius</u>) | 00 | Maa | - | | UPL species | 20 | $-x^{5}=$ | 100 | (D) |
| Avena sativa Monarda punctata | 20 | Ves | F/ | | Column Totais: | 100 | _(A) | 420 | (B) |
| 3. | 20 | 163 | | | Prevalence I | ndex = B/A | A = | 4.2 | |
| 4. | · | | | | Hydrophytic V | egetation I | ndicators | : | |
| 5. | | | | | 1 - Rapid T | est for Hyd | rophytic V | egetation | |
| 6. | | | | | 2 - Domina | nce Test is | >50% | | |
| 7. | | | | | 3 - Prevale | nce Index i | s ≤3.0 ¹ | | |
| 8 | | | | | 4 - Morphol data in Re | ogical Ada emarks or o | ptations ¹ (l n a separa | Provide su te sheet) | ipporting |
| 10 | | | | | Problematio | Hydrophy | tic Vegeta | tion ¹ (Exp | lain) |
| Woody Vine Stratum (Plot size: 30-ft radius | 100 | = Total Co | over | | ¹ Indicators of hy be present, unle | /dric soil ar ess disturbe | nd wetland ed or probl | hydrolog ematic. | y must |
| 1. 2. | | = Total Co | over | | Hydrophytic Vegetation Present? | Yes | No | x | |

Remarks:

Hydrophitic vegetation indicators were not observed at this location. % Bare Ground in Herb Stratum was 0%.

| Profile Descript | tion: (Describe | to the depth n | eeded to doc | ument th | ie indica | tor or c | confirm the absence | of indicators | s.) | |
|---------------------------------------|-------------------------------|-------------------|-----------------|------------|-----------|------------------|-------------------------------------|------------------|----------------------|----------------------|
| Depth | Matrix | | Redo | ox Feature | es 1 | 2 | | | | |
| (inches) | Color (moist) | <u>%</u> C | olor (moist) | % | Туре′ | Loc ² | Texture | | Remarks | |
| 0-10 | 7.5YR 4/2 | 100 | | | | | Clay | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| · · · · · · · · · · · · · · · · · · · | | | | | | | | | | |
| | | | | · | | | | | | |
| | | | | · | | | | | | |
| | | | | · | | | | | | |
| | | | | | | | | | | |
| ¹ Type: C=Conce | entration, D=Dep | oletion, RM=Rec | luced Matrix, (| CS=Cove | red or C | oated Sa | and Grains. ² I | ocation: PL: | Pore Lining, | M=Matrix. |
| Hydric Soil Indi | cators: (Applic | able to all LRF | ts, unless oth | nerwise n | oted.) | | Indicato | rs for Proble | matic Hydrid | soils': |
| Histosol (A1) |) | - | Sandy Gle | eyed Matr | ix (S4) | | 1 cm | Muck (A9) (I | .RR I, J) | |
| Histic Epipeo | don (A2) | - | Sandy Re | dox (S5) | | | Coas | st Prairie Red | ox (A16) (LRI | R F,G, H) |
| Black Histic | (A3) | - | Stripped N | /atrix (S6 |) | | Dark | Surface (S7 | (LRR G) | |
| Hydrogen Su | ulfide (A4) | - | Loamy Mu | ucky Mine | eral (F1) | | High | Plains Depre | essions (F16) | |
| Stratified Lay | yers (A5) (LRR F |) _ | Loamy Gl | eyed Mat | rix (F2) | | (LRR | H outside ML | RA 72 & 73) | |
| 1 cm Muck (| A9) (LRR F, G, H) | - | Depleted | Matrix (F3 | 3) | | Redu | iced Vertic (F | ·18) | |
| | low Dark Surfac | e (A11) | Redox Da | rk Surfac | e (F6) | | Red | Parent Mater | | |
| Thick Dark S | Surface (A12) | - | Depleted | Dark Surf | ace (F7) | | Very | Shallow Darl | (Surface (TF | 12) |
| Sandy Muck | y Mineral (S1) | | Redox De | pressions | 5 (F8) | 10) | Othe | r (Explain in l | Remarks) | |
| 2.5 cm Muck | (y Peat or Peat (| S2)(LRR G,H) | High Plain | IS Depres | sions (F | 16) | ³ Indicators of hydrophy | tic vegetation a | nd wetland hyc | rology must be |
| | Peat or Peat (S | 3) (LRR F) | (WILKA / 2 d | x /3 01 LR | к п) | | present, | unless disturbe | d or problemati | C. |
| Restrictive Laye | er (if present): | | | | | | | | | |
| Туре: | | | | | | | Undria Cail I | | N/ | |
| Depth (inche | es): | | | | | | Hydric Soli F | resent? | Yes | <u>NO X</u> |
| Remarks: | | | | | | | | | | |
| Hydric soil indica | ators were not of | oserved at this l | ocation. | | | | | | | |
| | | | | | | | | | | |
| | / | | | | | | | | | |
| TDROLOG | 1 | | | | | | | | | |
| Wetland Hydrol | logy Indicators: | | | | | | | | | |
| Primary Indicato | rs (minimum of o | one required; ch | eck all that ap | oply) | | | <u>Seconda</u> | ry Indicators | (minimum of | <u>two required)</u> |
| Surface Wat | ter (A1) | - | Salt Crust | (B11) | | | Surfa | ace Soil Crac | ks (B6) | |
| High Water | Table (A2) | - | Aquatic In | vertebrat | es (B13) | | Spar | sely Vegetate | ed Concave S | Surface (B8) |
| Saturation (A | 43) | - | Hydrogen | Sulfide C | dor (C1) |) | Drair | age Patterns | s (B10) | |
| Water Marks | s (B1) | - | Dry-Seaso | on Water | Table (C | ;2) | Oxid | ized Rhizosp | heres on Livii | ng Roots (C3) |
| Sediment De | eposits (B2) | - | | Rhizosphe | eres on L | lving Ro | oots (C3) (whe | re tilled) | (00) | |
| Drift Deposit | s (B3) | | (where not | tilled) | | 00 | Cray | fish Burrows | (C8) | (00) |
| Algal Mat or | Crust (B4) | - | Presence | of Reduc | ed Iron (| C4) | | ration visible | on Aeriai Ima | agery (C9) |
| Iron Deposits | S (BD) (isible an Asrial I | - | | | (C7) | | Geol | Norphic Posi | | |
| Inundation v | risible on Aerial I | magery (B7) | Other (Ex | piain in R | emarks) | | FAC | | (DS) mocks (DZ) (| |
| | eu Leaves (B9) | | | | | | | | | |
| Field Observati | ons: | | Nie | Danth (in |) · | | | | | |
| Surface water P | resent? Ye | es | | Depth (in | icnes): | | | | | |
| Water Table Pre | esent? Ye | es | | Depth (ir | icnes): | | Watland Hydrolo | ny Bracant? | Vac | No V |
| Coturation Uraca | ent? Ye | es | NO | Depth (Ir | iches): | | wettand Hydrolo | gy Present? | res | |

Hydrologic indicators were not observed at this location.

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Saturation Present? (includes capillary fringe)

Remarks:

| Project/Site: FM 971 | | City/County | : Georgetow | n/Williamson | Sampling | Date: 7 | /13/2023 |
|--|----------------|---------------|--------------------------|--|-------------------------|--------------------------|------------|
| Applicant/Owner: City of Georgetown | | | | State:TX | Sampling | Point: | Up 3 |
| Investigator(s): Jason Sellers, Tamura Dunbar | | Se | ection, Town | ship, Range: <u>n/a</u> | | | |
| Landform (hillside, terrace, etc.): <u>Stream Bank</u> | | Local relie | f (concave, co | onvex, none): <u>concav</u> | e Slo | pe (%): | 1 |
| Subregion: LRR J, MLRA 86A Lat: | 30.65689 | 98 L | .ong: | -97.661352 | Datum: | NAD 8 | 33 |
| Soil Map Unit Name: Ecrant cobbly clay, 1 to 8 percent | t slopes (Eac | 1) | | NWI cl | assification: | n/a | |
| Are climatic / hydrologic conditions on the site typical for | or this time c | f year? | Yes X | No (If no | , explain in Rem | arks.) | |
| Are Vegetation No , Soil No , or Hydrology No s | significantly | disturbed? A | Are "Normal (| Circumstances" pres | ent? Yes X | No | |
| Are Vegetation No , Soil No , or Hydrology No I | naturally prol | olematic? (| If needed, ex | plain any answers ir | n Remarks.) | | |
| SUMMARY OF FINDINGS – Attach site map sl | howing sa | npling poin | t locations | s, transects, impo | ortant features | , etc. | |
| Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No | 0 X 0 X | ls th wit | e Sampled hin a Wetla | Area Yes | No | » <u>X</u> | |
| Remarks: | rad a watland | | | | | | |
| This location does not meet the chiena to be consider | ied a wettand | 1. | | | | | |
| VEGETATION – Use scientific names of pla | ints | | | | | | |
| | Absolute | Dominant | Indicator | | | | |
| Tree Stratum (Plot size: <u>30-ft radius</u>) | % Cover | Species? | Status | Dominance Test | worksheet: | | |
| 1. Ulmus americana | 40 | Yes | FAC | Number of Domin | ant Species Tha | at o | |
| 2. Celtis laevigata | 5 | NO | FAC | Are OBL, FACW, | or FAC: | 3 | (A) |
| 4 | | | | Total Number of I Across All Strata | Dominant Specie | es 4 | (B) |
| 5. | | | | Percent of Domin | ant Species Tha | t . | (2) |
| | 45 | = Total Cover | | Are OBL, FACW, | or FAC: | 75.0% | 6 (A/B) |
| Sapling/Shrub Stratum (Plot size: 15-ft radius |) | | | | | | |
| 1. Celtis laevigata | 10 | Yes | FAC | Prevalence Inde | x worksheet: | | |
| 2 | | | | Total % Cov | er of: | Multiply by: | |
| 3. | | | | OBL species | <u> </u> | = | |
| 4 | | | | FACVV species | <u> </u> | | |
| 5 | | Tabal Quart | | FAC species | 85 X 3 | = 255 | |
| (Districture) (Districture) | 10 | = Total Cover | | FACU species | <u>30</u> X4 | = 120 | |
| <u>Help Stratum</u> (Plot size. <u>5-it radius</u>) | 20 | Voo | EACU | Column Totolo: | <u> </u> | - 0 | (P) |
| Elymus canadensis Ambrosia trifida | 30 | Vos | FACO | | (A) | 375 | (D) |
| 3 | | 165 | TAC | Prevalence Inc | lex = B/A = | 3.26 | |
| 4 | | | | Hydrophytic Veg | etation Indicate | ors: | |
| 5 | | | | 1 - Rapid Tes | t for Hydrophytic | : Vegetatio | n |
| 6 | | | | X 2 - Dominanc | e Test is >50% | , regenane | |
| 7. | | | | 3 - Prevalence | e Index is $\leq 3.0^1$ | | |
| 8. | | | | 4 - Morpholog | gical Adaptations | ¹ (Provide s | supporting |
| 9. | | | | data in Ren | narks or on a sep | arate sheet |) |
| 10 | | | | Problematic I | Hydrophytic Veg | etation ¹ (E> | oplain) |
| | 60 | = Total Cover | | ¹ Indicators of hyd | ric soil and wetla | ind hydrolo | gy must |
| vvoody vine Stratum (Plot size: 30-ft radius | _) | | | be present, unles | s disturbed or pr | opiematic. | |
| 2 | | | | Hydrophytic | | | |
| | | = Total Cover | | Present? | res <u>X</u> N | o | |

Remarks:

Hydrophitic vegetation indicators were observed at this location. % Bare Ground in Herb Stratum was 40%.

| Profile Des | cription: (Describe t | to the depth r | needed to docu | ument t | he indica | tor or o | confirm the absence | of indicato | rs.) |
|------------------------|--------------------------|------------------|--------------------------|-------------|---------------------|------------------|------------------------------------|-----------------------------------|--|
| Depth | Matrix | | Redo | x Featur | es | | | | |
| (inches) | Color (moist) | <u>%</u> C | olor (moist) | % | Type ¹ | Loc ² | Texture | · | Remarks |
| 0-10 | 7.5YR 3/1 | 100 | | | | | Silty Clay | · | cobble in soil |
| | <u> </u> | <u> </u> | | | | | | · | |
| | | | | | | | | | |
| | . | | | | | | | | |
| | <u></u> | | | | | | | · | |
| | . | | | | | | | · | |
| | | | | | | | | · | |
| ¹ Type: C=C | Concentration, D=Depl | etion, RM=Re | duced Matrix, C | S=Cove | ered or C | oated S | and Grains. | Location: Pl | L=Pore Lining, M=Matrix. |
| Hydric Soil | Indicators: (Applica | able to all LR | Rs, unless oth | erwise | noted.) | | Indicato | ors for Probl | lematic Hydric Soils": |
| HISTOSO | I (A1) | | Sandy Gle | yed Mat | rix (54) | | 1 cn | n Muck (A9) et Breirie Be | (LRR I, J) |
| | pipedoli (A2) | | Sanuy Red | lotriv (SC) | 3) | | Coa | | 7 (LRR C) |
| | $\operatorname{Suc}(A3)$ | | | cky Mine |) aral (E1) | | Dan | n Plaine Den | () (LKK G) |
| Stratifie | d Lavers (A5) (LPR F) | | Loamy Gle | wed Mat | triv ($F2$) | | (I BE | P H outsido Mi | I PA 72 & 73) |
| 1 cm Mi | | | Loany Ole | /otriv (E | 3) | | (EKr | | (E18) |
| T CIT IVIO | d Below Dark Surface | (Δ11) | Depleted in Reday Dar | k Surfac | 5) Se (E6) | | Red | Parent Mate | (TE2) |
| Depiete | ark Surface (A12) | | | N Ouriac | face (F7) | | Nen | | r(112) |
| Sandy M | Mucky Mineral (S1) | | Depleted L | | s (F8) | | | er (Evolain in | Remarks) |
| 2.5 cm l | Mucky Peat or Peat (S | 2)(I PR C H) | High Plain | | s (10) ssions (F | 16) | O | | (internation) |
| 5 cm Mi | ucky Peat or Peat (S3 |) (LRR F) | (MLRA 72 & | 73 of LF | RR H) | 10) | "Indicators of hydroph present, | ytic vegetation unless disturb | and wetland hydrology must be bed or problematic. |
| Restrictive | Layer (if present): | | | | | | | | |
| Type: | | | | | | | | | |
| Depth (i | inches): | | | | | | Hydric Soil | Present? | Yes No X |
| Remarks: | | | | | | | | | |
| Hydric soil i | ndicators were not obs | served at this l | ocation. | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| HYDROLO | DGY | | | | | | | | |
| Wetland Hy | drology Indicators: | | | | | | | | |
| Primary Ind | icators (minimum of o | ne required; cl | neck all that ap | ply) | | | Seconda | ary Indicators | s (minimum of two required) |
| Surface | Water (A1) | | Salt Crust | (B11) | | | Surf | face Soil Cra | icks (B6) |
| High Wa | ater Table (A2) | - | Aquatic Inv | /ertebra | tes (B13) | | Spa | rsely Vegeta | ated Concave Surface (B8) |
| Saturati | on (A3) | | Hydrogen | Sulfide (| Odor (C1 |) | Drai | inage Patterr | ns (B10) |
| Water N | /larks (B1) | - | Dry-Seaso | n Water | Table (C | (2) | Oxic | dized Rhizos | pheres on Living Roots (C3) |

Oxidized Rhizospheres on Living Roots (C3)

Presence of Reduced Iron (C4)

Depth (inches):

Depth (inches):

Depth (inches):

Thin Muck Surface (C7)

Other (Explain in Remarks)

| Saturatio | n Present? | Yes |
|-----------|-------------------|-----|
| (includes | capillary fringe) | |
| | | |

Sediment Deposits (B2)

Algal Mat or Crust (B4)

Water-Stained Leaves (B9)

Drift Deposits (B3)

Iron Deposits (B5)

Field Observations: Surface Water Present?

Water Table Present?

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

No

No

No

(where not tilled)

Remarks:

Hydrologic indicators were not observed at this location.

Yes Yes

Inundation Visible on Aerial Imagery (B7)

No X

(where tilled)

Wetland Hydrology Present?

Crayfish Burrows (C8)

FAC-Neutral Test (D5)

Geomorphic Position (D2)

Saturation Visible on Aerial Imagery (C9)

Forst-Heave Hummocks (D7) (LRR F)

Yes

| Project/Site: FM 971 | | City/Cou | unty: Georgetow | n/Williamson | Sar | mpling Da | te: 7/1 | 3/2023 |
|--|---------------|------------|---------------------------------|--|-----------------------------|--------------------------|------------------------|----------|
| Applicant/Owner: <u>City of Georgetown</u> | | | | State:T | X Sar | npling Poi | nt: | Up 4 |
| Investigator(s): Jason Sellers, Tamura Dunbar | | | Section, Town | ship, Range: <u>n/a</u> | | | | |
| Landform (hillside, terrace, etc.): Upland terrace | | Local r | elief (concave, c | onvex, none): <u>conc</u> a | ave | Slope | (%): | 1 |
| Subregion: LRR J, MLRA 86A Lat: | 30.65687 | 9 | Long: | -97.661282 | Datur | n: | NAD 83 | |
| Soil Map Unit Name: Ecrant cobbly clay, 1 to 8 percent | slopes (Ead |) | | NWI | classificatio | n: | n/a | |
| Are climatic / hydrologic conditions on the site typical fo | r this time o | f year? | Yes X | No(If r | ıo, explain iı | n Remark | s.) | |
| Are Vegetation No , Soil No , or Hydrology No si | gnificantly d | listurbed? | Are "Normal | Circumstances" pre | esent? Ye | es X | No | |
| Are Vegetation No , Soil No , or Hydrology No n | aturally prob | lematic? | (If needed, e | xplain any answers | in Remarks | 3.) | | |
| SUMMARY OF FINDINGS – Attach site map sh | owing sar | npling p | oint locations | s, transects, imp | ortant fea | atures, e | tc. | |
| Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No | X X X | ls | s the Sampled within a Wetla | Area nd? Yes | | No | X | _ |
| Remarks: This location does not meet the criteria to be considered | ed a wetland | | | | | | | |
| VEGETATION – Use scientific names of plar | nts. | | | | | | | |
| | Absolute | Domina | nt Indicator | | | | | |
| <u>Tree Stratum</u> (Plot size: <u>30-ft radius</u>) | % Cover | Species | ? Status | Dominance Te | st workshe | et: | | |
| 1 | | | | Number of Dom | inant Speci | es That | 0 | (A) |
| 3. | | | | Total Number of | f Dominant | - Spaciae | 0 | |
| 4. | | | | Across All Strat | a: | Species | 1 | (B) |
| 5 | | | | Percent of Dom | inant Speci | es That | | |
| | | = Total Co | over | Are OBL, FACV | V, or FAC: | _ | 0.0% | (A/B) |
| Sapling/Shrub Stratum (Plot size: 15-ft radius |) | | | Ducuelou e a lu d | | | | |
| 2 | | | | Total % Co | ex worksno | eet: Mul | tiply by: | |
| 3 | | | | OBL species | 0 | x 1 = | 0 | _ |
| 4 | | | | FACW species | 0 | - x2= | 0 | |
| 5. | | | | FAC species | 0 | x 3 = | 0 | _ |
| | | = Total Co | over | FACU species | 100 | x 4 = | 400 | _ |
| Herb Stratum (Plot size: 5-ft radius) | | | | UPL species | 0 | x 5 = | 0 | _ |
| 1. Cynodon dactylon | 100 | Yes | FACU | Column Totals: | 100 | (A) | 400 | (B) |
| 2. | | | | | | | | |
| 3 | | | | Prevalence I | 1 dex = B/A | = | 4 | |
| 4 | | | | Hydrophytic Ve | getation In | idicators: | | |
| 5. | | | | 1 - Rapid To | est for Hydro | ophytic Ve | egetation | |
| 6. | | | | 2 - Dominai | ice Test is 2 | >50% | | |
| 7 | | | | 3 - Prevaler | ice Index is | ≤3.0 ⁺ | | |
| 8 | | | | 4 - Morphol data in Re | ogical Adap emarks or or | itations (F a separat | 'rovide su e sheet) | pporting |
| 10. | | | | Problematio | : Hvdrophvt ⁱ | ic Vegetat | ion ¹ (Exp | ain) |
| Woody Vine Stratum (Plot size: 30-ft radius | 100 = | = Total Co | over | ¹ Indicators of hy be present, unle | /dric soil and | d wetland d or proble | hydrology ematic. | / must |
| 1 | .′ | | | Hydrophytic | | | | |
| 2. | | | | Vegetation | | | | |
| | : | = Total Co | over | Present? | Yes | No | X | |

Remarks:

Hydrophitic vegetation indicators were not observed at this location. % Bare Ground in Herb Stratum was 0%.

| Depth | Matrix | Redo | x Features | | | | |
|---------------------------------|-----------------------------------|-------------------|---------------------------|------------------|-------------------------|-------------------------|----------------------------------|
| (inches) | Color (moist) % | Color (moist) | % Type ¹ | Loc ² | Tex | ture | Remarks |
| 0-10 | 7.5YR 3/1 100 | | | | Silty | Clay | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | · | | | · | | | |
| | | | | · | | | |
| | · | | | · | | | |
| - | · | | | · | | | |
| ¹ Type: C=C | concentration, D=Depletion, RM=F | Reduced Matrix, C | S=Covered or (| Coated S | and Grains | . ² Location | n: PL=Pore Lining, M=Matrix. |
| Hydric Soil | Indicators: (Applicable to all L | RRs, unless oth | erwise noted.) | | | Indicators for F | Problematic Hydric Soils': |
| Histosol | (A1) | Sandy Gle | yed Matrix (S4) | | | 1 cm Muck | (A9) (LRR I, J) |
| | pipedon (A2) | Sandy Rec | lox (S5) | | | Coast Prairi | ie Redox (A16) (LRR F,G, H) |
| Black H | ISTIC (A3) | | atrix (S6) | \ \ | | Dark Surfac | Ce(S7)(LRR G) |
| Hydroge | d Lavors (A5) (LPB E) | | wod Matrix (E2) |) | | | |
| | | | I_{atrix} (E3) | | | Reduced Va | ertic (E18) |
| Deplete | d Below Dark Surface (A11) | Bedox Dar | k Surface (F6) | | | Red Parent | Material (TF2) |
| Thick Da | ark Surface (A12) | Depleted F |)ark Surface (F7 | 7) | | Verv Shallo | w Dark Surface (TF12) |
| Sandy N | /ucky Mineral (S1) | Redox Dep | pressions (F8) | | | Other (Expl | ain in Remarks) |
| 2.5 cm l | Mucky Peat or Peat (S2)(LRR G,H) | High Plain | s Depressions (| F16) | ³ Indicators | | , |
| 5 cm Mu | ucky Peat or Peat (S3) (LRR F) | (MLRA 72 & | 73 of LRR H) | , | indicators | present, unless d | listurbed or problematic. |
| Restrictive | Laver (if present): | | | | | | |
| Type: | | | | | | | |
| Depth (i | nches): | _ | | | Ну | dric Soil Present | t? Yes No X |
| Pomarka: | , | | | | | | |
| Hvdric soil i | ndicators were not observed at th | is location. | | | | | |
| 5 | | | | | | | |
| | | | | | | | |
| |)GY | | | | | | |
| Wotland L | drology Indicatoro | | | | | | |
| | cators (minimum of one required) | check all that an | | | | Socondary India | cators (minimum of two required) |
| <u>Filliary Illu</u> Surface | Water (A1) | Solt Crust | (B11) | | | Surface Soi | il Cracke (B6) |
| High Wa | ater Table (A2) | | (BTT) /ertebrates (B13 | 3) | | Sparsely Ve | eretated Concave Surface (B8) |
| Saturati | on (A3) | Hydrogen | Sulfide Odor (C | 2) 1) | | Drainage Pa | atterns (B10) |
| Water M | larks (B1) | Drv-Seaso | n Water Table (| C2) | | | aizeanharea an Living Poeta (C2 |
| Sedime | nt Deposits (B2) | Oxidized R | hizospheres on | Living R | oots (C3) | (where tilled) |) |
| Drift De | posits (B3) | (where not | tilled) | 5 | () | Cravfish Bu | , irrows (C8) |
| Algal Ma | at or Crust (B4) | Presence o | of Reduced Iron | (C4) | | Saturation \ | Visible on Aerial Imagery (C9) |
| Iron Dep | posits (B5) | Thin Muck | Surface (C7) | . / | | Geomorphic | c Position (D2) |
| Inundati | on Visible on Aerial Imagery (B7) | Other (Exp | lain in Remarks | ;) | | FAC-Neutra | al Test (D5) |

| Forst-Heave Hummocks (D7) (LRR F) |
|-----------------------------------|
|-----------------------------------|

| Surface Water Present? | Yes | No | Depth (inches): | | | | |
|-----------------------------|-----|----|-----------------|----------------------------|-----|----|---|
| Water Table Present? | Yes | No | Depth (inches): | | | | |
| Saturation Present? | Yes | No | Depth (inches): | Wetland Hydrology Present? | Yes | No | Х |
| (includes capillary fringe) | | | | | | | |

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Hydrologic indicators were not observed at this location.

Water-Stained Leaves (B9)

Field Observations:

| Project/Site: FM 971 | | City/County | : Georgetow | n/Williamson | Sa | mpling Date | e: 7/1 | 3/2023 |
|--|-----------------|---------------|---------------------------|--|-------------------------------|----------------------------|------------------------|---------|
| Applicant/Owner: City of Georgetown | | | | State:1 | X Sar | mpling Poir | it: <u> </u> | /et 1 |
| Investigator(s): Jason Sellers, Tamura Dunbar | | S | ection, Towns | ship, Range: <u>n/a</u> | | | | |
| Landform (hillside, terrace, etc.): <u>Depression</u> | | Local relie | f (concave, co | onvex, none): <u>conc</u> | ave | Slope (| %): | 1 |
| Subregion: LRR J, MLRA 86A Lat: | 30.65618 | 7 <u></u> l | _ong: | -97.662741 | Datur | n: | NAD 83 | |
| Soil Map Unit Name: Ecrant cobbly clay, 1 to 8 percent | slopes (Ead |) | | NWI | classificatio | n: | n/a | |
| Are climatic / hydrologic conditions on the site typical for | or this time of | year? | Yes X | No(If I | no, explain i | n Remarks | .) | |
| Are Vegetation No , Soil No , or Hydrology No s | ignificantly d | isturbed? | Are "Normal (| Circumstances" pr | esent? Ye | es X | No | |
| Are Vegetation No , Soil No , or Hydrology No r | naturally prob | lematic? (| (If needed, e) | plain any answers | in Remarks | s.) | | - |
| SUMMARY OF FINDINGS – Attach site map sh | nowing san | npling poir | nt locations | s, transects, im | portant fea | atures, et | с. | |
| Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No | | ls th wit | ie Sampled hin a Wetla | Area Yes nd? | X | No | | _ |
| Remarks: This location meets the critera to be considered a wet | land. | | | | | | | |
| VEGETATION – Use scientific names of pla | nts. | | | | | | | |
| - | Absolute | Dominant | Indicator | | | | | |
| <u>Tree Stratum</u> (Plot size: <u>30-ft radius</u>) | % Cover | Species? | Status | Dominance Te | st workshe | et: | | |
| 1. 2. | | | | Number of Dom Are OBL, FACV | ninant Speci N, or FAC: | es That | 2 | (A) |
| 3. 4. | | | | Total Number of Across All Strat | of Dominant ta: | Species | 2 | (B) |
| 5. | | | | Percent of Dom | ninant Speci | es That | - | _(=) |
| | = | Total Cove | r | Are OBL, FAC | N, or FAC: | <u> </u> | 100.0% | (A/B) |
| Sapling/Shrub Stratum (Plot size: 15-ft radius |) | | | | | | | |
| 1. Ulmus crassifolia | 5 | Yes | FAC | Prevalence Inc | dex worksh | eet: | | |
| 2 | | | | Total % Co | over of: | Multi | ply by: | |
| 3. | | | | OBL species | 82 | $- x_{1}^{2} = -$ | 82 | _ |
| 4. | | | | FACVV species | 0 | | 0 | - |
| 5 | | | | FAC species | 18 | - x3= | 54 | _ |
| | 5 = | = Total Cover | ſ | FACU species | 0 | _ ×4 = | 0 | - |
| Herb Stratum (Plot size: 5-ft radius) | | | | UPL species | 0 | x5= | 0 | - |
| 1. Eleocharis palustris | /0 | Yes | OBL | Column Lotals: | 100 | (A) | 136 | _(B) |
| 2. Marsilea mutica | 10 | No | OBL | Prevalence I | ndev - B/A | - 1 | 36 | |
| 3. Ambrosia trifida | 10 | NO | FAC | | | | .50 | |
| 4. Iva annua | 3 | NO | | Hydropnytic V | egetation If | idicators: | rotation | |
| 6 | Z | 110 | OBL | | nce Test is | >50% | Jelalion | |
| 7 | | | | X 3 - Prevale | nce Index is | <3 0 ¹ | | |
| 8 | | | | 4 - Morpho | logical Adar | tations ¹ (Pr | ovide sur | nortina |
| 9. | | | | data in R | emarks or or | n a separate | sheet) | porting |
| 10. | | | | Problemati | c Hydrophyt | ic Vegetati | on ¹ (Expla | ain) |
| Woody Vine Stratum (Plot size: 30-ft radius | 95 = | Total Cover | r | ¹ Indicators of hybe present unle | ydric soil an ess disturbe | d wetland h d or proble | ydrology matic | must |
| 1. | _ / | | | | | | | |
| 2. | | - Total Cava | | Hydrophytic Vegetation Present? | Voc V | No | | |
| | | - Total Covel | | Present? | Tes A | | | |

Remarks:

Hydrophitic vegetation indicators were observed at this location. % Bare Ground in Herb Stratum was 5%.

| SOIL |
|------|
|------|

| Depth | Matrix | | Redo | x Featur | es | | | | | , | |
|------------------------|-------------------------|-----------------|------------------|-------------|-------------------|------------------|-------------------------|---------------|----------------|----------------------|------------------------|
| (inches) | Color (moist) | % (| Color (moist) | % | Type ¹ | Loc ² | Тех | dure | | Remarks | |
| 0-10 | 10YR 6/4 | 95 | 5YR 6/4 | 5 | С | PL | Silty | Clay | Oxidize | ed Rhizospher | es Present |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| ¹ Type: C=C | oncentration D=Deple | tion RM=Re | educed Matrix (| CS=Cove | ered or C | oated S | and Grains | 2 | ocation: Pl | =Pore Lining | M=Matrix |
| Hydric Soil | Indicators: (Applica | ble to all LR | Rs, unless oth | erwise | noted.) | outou o | | Indicato | rs for Prob | lematic Hydrid | c Soils ³ : |
| Histosol | (A1) | | Sandy Gle | eyed Mat | rix (S4) | | | 1 cm | n Muck (A9) | (LRR I, J) | |
| Histic Ep | oipedon (A2) | | Sandy Re | dox (S5) | | | | Coa | st Prairie Re | dox (A16) (LR | R F,G, H) |
| Black Hi | stic (A3) | | Stripped N | /latrix (Se | 6) | | | Dark | Surface (S | 7) (LRR G) | |
| Hydroge | n Sulfide (A4) | | Loamy Mu | icky Min | eral (F1) | | | High | Plains Dep | ressions (F16) | |
| Stratified | l Layers (A5) (LRR F) | | Loamy Gle | eyed Ma | trix (F2) | | | (LRR | H outside M | LRA 72 & 73) | |
| 1 cm Mu | ick (A9) (LRR F, G, H) | | X Depleted I | Matrix (F | 3) | | | Red | uced Vertic | (F18) | |
| Depleted | Below Dark Surface | (A11) | Redox Da | rk Surfac | ce (F6) | | | Red | Parent Mate | erial (TF2) | |
| Thick Da | ark Surface (A12) | | Depleted I | Dark Sur | face (F7) |) | | Very | Shallow Da | irk Surface (TF | 12) |
| Sandy M | lucky Mineral (S1) | | Redox De | pression | s (F8) | | | Othe | er (Explain ir | n Remarks) | |
| 2.5 cm N | /lucky Peat or Peat (S | 2)(LRR G,H) | High Plain | s Depre | ssions (F | 16) | ³ Indicators | s of hydrophy | tic vegetation | and wetland hvo | troloav must be |
| 5 cm Mu | icky Peat or Peat (S3) | (LRR F) | (MLRA 72 8 | & 73 of LF | RR H) | | | present, | unless disturb | ed or problemati | с. |
| Restrictive | Layer (if present): | | | | | | | | | | |
| Туре: | | | - | | | | | | | | |
| Depth (ir | nches): | | - | | | | Ну | dric Soil I | Present? | Yes X | No |
| Remarks: | | | 4 | | | | | | | | |
| Hydric soli in | Idicators were observe | ed at this loca | ation. | | | | | | | | |
| | | | | | | | | | | | |
| HYDROLO |)GY | | | | | | | | | | |
| Wetland Hy | drology Indicators: | | | | | | | | | | |
| Primary India | cators (minimum of or | ne required; o | heck all that ap | oply) | | | | Seconda | ry Indicators | <u>s (minimum of</u> | two required |
| Surface | Water (A1) | | Salt Crust | (B11) | | | | Surf | ace Soil Cra | cks (B6) | |
| High Wa | iter Table (A2) | | Aquatic In | vertebra | tes (B13) |) | | Spa | rsely Vegeta | ted Concave S | Surface (B8) |
| Saturatio | on (A3) | | Hydrogen | Sulfide (| Odor (C1 |) | | Drai | nage Patterr | ıs (B10) | |
| X Water M | arks (B1) | | Dry-Seaso | on Water | Table (C | C2) | | Oxid | ized Rhizos | pheres on Livi | ng Roots (C3 |
| Sedimer | nt Deposits (B2) | | X Oxidized F | Rhizosph | eres on | Living R | oots (C3) | (whe | re tilled) | | |
| Drift Dep | oosits (B3) | | (where not | tilled) | | | | Cray | fish Burrows | s (C8) | |
| Algal Ma | at or Crust (B4) | | Presence | of Redu | ced Iron | (C4) | | Satu | ration Visibl | e on Aerial Im | agery (C9) |
| Iron Dep | osits (B5) | | Thin Muck | Surface | e (C7) | | | Geo | morphic Pos | sition (D2) | |
| Inundatio | on Visible on Aerial Im | agery (B7) | Other (Exp | olain in F | Remarks) | | | X FAC | -Neutral Tes | st (D5) | |
| Water-S | tained Leaves (B9) | | | | | | | Fors | t-Heave Hu | mmocks (D7) (| LRR F) |

| Water-Stamed Leaves | (09) | | | |
|-----------------------------|------|----|-----------------|----------------------------|
| Field Observations: | | | | |
| Surface Water Present? | Yes | No | Depth (inches): | |
| Water Table Present? | Yes | No | Depth (inches): | |
| Saturation Present? | Yes | No | Depth (inches): | Wetland Hydrology Present? |
| (includes capillary fringe) | | | | |

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Hydrologic indicators were observed at this location.

Yes X

No

| Project/Site: FM 971 | | City/Cour | nty: Georgetowr | n/Williamson | Sa | mpling Da | ate: 7/3 | 31/2023 |
|---|-------------------|-------------|-------------------------------|--|-----------------------------|--|--------------------------|----------|
| Applicant/Owner: <u>City of Georgetown</u> | | | State: TX Sampling Point: | | | | | Up 5 |
| Investigator(s): Tamura Dunbar | | | Section, Towns | ship, Range: n/a | | | | |
| Landform (hillside, terrace, etc.): Plains | | Local re | lief (concave, co | onvex, none): conca | ive | Slope | (%): | 1 |
| Subregion: LRR J, MLRA 86A Lat: | 30.65528 | 5 | Long: | -97.664065 | Datu | m: | NAD 83 | |
| Soil Map Unit Name: Sunev silty clay loam, 1 to 3 per | cent slopes (S | vb) | _ | NWI | classificatio | on: | n/a | |
| Are climatic / hydrologic conditions on the site typical | for this time o | f year? | Yes X | No (lf n | o, explain i | n Remark | (s.) | |
| Are Vegetation No , Soil No , or Hydrology No | significantly d | isturbed? | Are "Normal (| Circumstances" pre | sent? Y | es X | No | |
| Are Vegetation No , Soil No , or Hydrology No | naturally prob | lematic? | (If needed, ex | plain any answers | in Remark | s.) | | _ |
| SUMMARY OF FINDINGS – Attach site map s | howing sar | npling po | oint locations | , transects, imp | ortant fe | atures, e | etc. | |
| Hydrophytic Vegetation Present? Yes N Hydric Soil Present? Yes N Wetland Hydrology Present? Yes N | o X o X o X | ls v | the Sampled vithin a Wetla | Area nd? Yes_ | | No | х | _ |
| Remarks: This location does not meet the criteria to be conside | ered a wetland | | | | | | | |
| VEGETATION – Use scientific names of pla | ants. | | | | | | | |
| | Absolute | Dominan | t Indicator | | | | | |
| <u>Tree Stratum</u> (Plot size: <u>30-ft radius</u>) | % Cover | Species | Status | Dominance Tes | st workshe | et: | | |
| 1. Carya Illinoinensis | 20 | Yes | FAC | Number of Dom | inant Spec | ies That | 1 | (A) |
| 3. | | | | Total Number of | Dominant | - Species | • | |
| 4. | | | | Across All Strata | a: | Species | 3 | (B) |
| 5 | | | | Percent of Domi | inant Speci | es That | | _ |
| | 20 | = Total Cov | /er | Are OBL, FACW | /, or FAC: | _ | 33.3% | (A/B) |
| Sapling/Shrub Stratum (Plot size: 15-ft radius |) | | | Drevelopee Ind | | | | |
| 2 | | | | Total % Co | ver of | Mu | Itiply by: | |
| 3. | | | | OBL species | 0 | x 1 = | 0 | _ |
| 4. | | | | FACW species | 0 | x 2 = | 0 | _ |
| 5. | | | | FAC species | 20 | x 3 = | 60 | |
| | | = Total Cov | ver | FACU species | 80 | x 4 = | 320 | _ |
| Herb Stratum (Plot size: 5-ft radius) | | | | UPL species | 0 | x 5 = | 0 | _ |
| 1. Avena sativa | 80 | Yes | FACU | Column Totals: | 100 | (A) | 380 | _(B) |
| 2. Bothriochioa laguroides | 20 | Yes | | Prevalence Ir | ndex = B/A | = | 3.8 | |
| ۵ ۵ | | | | Hydrophytic Ve | | ndicators | • | |
| 5. | | | | 1 - Rapid Te | est for Hvdi | rophytic V | egetation | |
| 6. | | | | 2 - Dominar | nce Test is | >50% | 5 | |
| 7. | | | | 3 - Prevaler | ice Index is | s ≤3.0 ¹ | | |
| 89. | | | | 4 - Morpholo data in Re | ogical Adap marks or o | otations ¹ (I n a separa | Provide su ite sheet) | pporting |
| 10 | | | | Problematic | Hydrophy | tic Vegeta | tion ¹ (Exp | lain) |
| Woody Vine Stratum (Plot size: <u>30</u> -ft radius | <u>100</u> = | = Total Cov | ver | ¹ Indicators of hy be present, unle | dric soil an ss disturbe | d wetland d or probl | hydrology lematic. | y must |
| 1 | | | | Hydrophytic | | | | |
| 2 | | = Total Cov | ver | Vegetation Present? | Yes | No | x | |

Remarks:

Hydrophitic vegetation indicators were not observed at this location. % Bare Ground in Herb Stratum was 0%.

| Profile Desc | cription: (Describe | to the dept | h needed to doc | ument t | he indica | ator or c | onfirm the absence | of indicators | .) | |
|------------------------|---|---|---------------------|-------------|-----------------------|------------------|-------------------------------------|---------------------------------------|----------------------|------------------------|
| Depth | Matrix | | Redc | x Featur | es | | | •••••••• | ·, | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | | Remarks | |
| 0-16 | 10YR 3/2 | 100 | | | | | Clay | | | |
| 0.0 | | | | | | | 0.0, | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| ¹ Type: C=C | oncentration, D=Dep | oletion, RM= | Reduced Matrix, (| CS=Cov€ | ered or C | oated Sa | and Grains. ² I | _ocation: PL= | Pore Lining, | M=Matrix. |
| Hydric Soil | Indicators: (Applic | able to all L | _RRs, unless oth | erwise I | noted.) | | Indicato | rs for Probler | natic Hydric | ; Soils ³ : |
| Histosol | (A1) | | Sandy Gle | yed Mat | rix (S4) | | 1 cm | Muck (A9) (L | RR I, J) | |
| Histic Ep | pipedon (A2) | | Sandy Re | dox (S5) | | | Coas | st Prairie Redo | ox (A16) (LRR | t F,G, H) |
| Black Hi | stic (A3) | | Stripped N | /latrix (S6 | 3) | | Dark | Surface (S7) | (LRR G) | |
| Hydroge | n Sulfide (A4) | | Loamy Mu | icky Mine | eral (F1) | | High | Plains Depres | ssions (F16) | |
| | Layers (A5) (LRR F |) | Loamy Gle | eyed Mat | trix (F2) | | (LRR | H outside MLR | (A 72 & 73) | |
| | ICK (A9) (LRR F, G, H) N Balow Dark Surfaa |) | | | 3) 20 (E6) | | | Jced Vertic (F | 18) al (TE2) | |
| Depieted | a Below Dark Surface | e (ATT) | | Dark Sur | face (FO) | ١ | | | surface (TE | 12) |
| Sandy M | lucky Mineral (S1) | | Depleted I | | iace (F8) | 1 | Very | or (Explain in F | Sunace (The | 12) |
| 2.5 cm M | lucky Peat or Peat (| (S2)(I RR G H | High Plain | is Depres | s (i 0) ssions (F | 16) | Ounc | | | |
| 5 cm Mu | icky Peat or Peat (S | 3) (LRR F) | (MLRA 72 & | & 73 of LF | R H) | 10) | "Indicators of hydrophy present, | tic vegetation ar unless disturbed | nd wetland hydr | rology must be |
| Restrictive | Laver (if present): | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | | | · | |
| Type [.] | | | | | | | | | | |
| Depth (ir | nches): | | — | | | | Hydric Soil F | resent? | Yes | No X |
| Pomarka: | , | | | | | | | | | |
| Hydric soil in | ndicators were not of | bserved at th | is location. | | | | | | | |
| , | | | | | | | | | | |
| | | | | | | | | | | |
| HYDROLO |)GY | | | | | | | | | |
| Wetland Hy | drology Indicators: | | | | | | | | | |
| Primary India | cators (minimum of | one required | ; check all that ap | oply) | | | Seconda | ry Indicators (| minimum of t | two required) |
| Surface | Water (A1) | | Salt Crust | (B11) | | | Surfa | ace Soil Crack | (B6) | |
| High Wa | iter Table (A2) | | Aquatic In | vertebrat | tes (B13) |) | Spar | sely Vegetate | d Concave S | urface (B8) |
| Saturatio | on (A3) | | Hydrogen | Sulfide (| Odor (C1 |) | Draiı | nage Patterns | (B10) | |
| Water M | arks (B1) | | Dry-Seaso | on Water | [·] Table (C | 2) | Oxid | ized Rhizosph | eres on Livin | ng Roots (C3) |
| Sedimer | nt Deposits (B2) | | Oxidized F | Rhizosph | eres on l | _iving Ro | oots (C3) (whe | re tilled) | | 5 |
| Drift Dep | oosits (B3) | | (where not | tilled) | | | Cray | fish Burrows (| C8) | |
| Algal Ma | at or Crust (B4) | | Presence | of Reduc | ced Iron (| (C4) | Satu | ration Visible | on Aerial Ima | agery (C9) |
| Iron Dep | osits (B5) | (22) | Thin Muck | Surface | ; (C7) | | Geo | norphic Positi | on (D2) | |
| | on Visible on Aeriai i | Imagery (B7) |) Other (Exp | plain in H | (emarks) | | FAC | -Neutral Test | (D5) | |
| Water-S | tained Leaves (B9) | | | | | | Fors | L-Heave Humr | nocks (D7) (L | _RR F) |
| Field Obser | vations: | | | | | | | | | |
| Surface wat | er Present? Ye | es | No | Deptn (II | nches): | | | | | |
| Water Lable | Drocont' V | 20 | No | L)enth (i | nohoo\. | | | | | |
| | | | No | | nches). | | Watland Hydrolo | ny Brocont? | Vac | No. V |

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Saturation Present? (includes capillary fringe)

Hydrologic indicators were not observed at this location.

| Project/Site: FM 971 | | City/Count | y: Georgetowr | n/Williamson | Sampling Da | ate: 7/3 | 31/2023 |
|--|------------------|--------------|----------------------------|---|--|-------------------------|-----------|
| Applicant/Owner: City of Georgetown | | | | State: TX | Sampling Po | pint: | Up 6 |
| Investigator(s): Tamura Dunbar | | s | ection, Towns | ship, Range: <u>n/a</u> | | | |
| Landform (hillside, terrace, etc.): Plains | | Local relie | ef (concave, co | onvex, none): <u>concave</u> | e Slope | (%): | 1 |
| Subregion: LRR J, MLRA 86A Lat: | 30.65867 | 0 | Long: | -97.659075 | Datum: | NAD 83 | 3 |
| Soil Map Unit Name: Krum silty clay, 1 to 3 percent slo | pes (Krb) | | | NWI cla | assification: | n/a | |
| Are climatic / hydrologic conditions on the site typical f | or this time of | f year? | Yes X | No (If no, | explain in Remarl | (s.) | |
| Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> | significantly d | isturbed? | Are "Normal (| Circumstances" prese | ent? Yes X | No | |
| Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> | naturally prob | lematic? | (If needed, ex | plain any answers in | Remarks.) | | |
| SUMMARY OF FINDINGS – Attach site map s | howing san | npling poi | nt locations | , transects, impo | rtant features, o | etc. | |
| Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No | x x x x | ls ti wi | he Sampled thin a Wetla | Area nd? Yes | No | x | |
| Remarks: This location does not meet the criteria to be conside | red a wetland | | | | | | |
| VEGETATION – Use scientific names of pla | Abaoluto | Dominant | Indiaator | | | | |
| <u>Tree Stratum</u> (Plot size: 30-ft radius) | % Cover | Species? | Status | Dominance Test | worksheet: | | |
| Prosopis glandulosa 2. | 15 | Yes | FACU | Number of Domina Are OBL, FACW, | ant Species That or FAC: | 0 | (A) |
| 3 | | | | Total Number of D Across All Strata: | ominant Species | 2 | (B) |
| 5Sapling/Shrub Stratum (Plot size: 15-ft radius | <u>15</u> = | = Total Cove | | Percent of Domina Are OBL, FACW, | ant Species That or FAC: | 0.0% | (A/B) |
| 1. | / | | | Prevalence Index | worksheet: | | |
| 2. | | | | Total % Cove | erof: Mu | Iltiply by: | |
| 3 | | | | OBL species | 0 x 1 = | 0 | |
| 4 | | | | FACW species | 0 x 2 = | 0 | |
| 5 | | - Total Covo | | FAC species | $0 \times 3 =$ | 420 | |
| Herb Stratum (Plot size: 5-ft radius) | | | 1 | UPL species | $\frac{103}{0}$ x 5 = | 420 | |
| 1. Cynodon dactylon | 90 | Yes | FACU | Column Totals: | 105 (A) | 420 | (B) |
| 2. | | | | | | | |
| 3 | | | | Prevalence Ind | ex = B/A = | 4 | |
| 4 | | | | Hydrophytic Veg | etation Indicators | ;; | |
| 5 | | | | 1 - Rapid Tesi | t for Hydrophytic V | egetation | |
| 0 | | | | 2 - Dominance | e Test is $>50\%$ | | |
| 8 | | | | 4 - Morpholog | ical Adaptations ¹ (| Provide su | upporting |
| 9. | | | | data in Rem | arks or on a separa | ate sheet) | .pp or9 |
| 10 | | | | Problematic H | lydrophytic Vegeta | ation ¹ (Exp | lain) |
| Woody Vine Stratum (Plot size:30-ft radius | 90 = | = Total Cove | r | ¹ Indicators of hydr be present, unless | ic soil and wetland disturbed or prob | l hydrolog lematic. | y must |
| 1 | | | | Hydrophytic | | | |
| 2 | | = Total Cove | | Vegetation Present? Y | ′es No | х | |

Remarks:

Hydrophitic vegetation indicators were not observed at this location. % Bare Ground in Herb Stratum was 10%.

| Denth | | | 26060 10 00000 | | 104101 01 (| confirm the absence | of Indicators) |
|--|---|---|---|--|--|--|---|
| 1 // -/ //// | Matrix | | Redox | Features | | | |
| (inches) | Color (moist) | % C(| olor (moist) | % Type | $e^1 \log^2$ | Texture | Remarks |
| 0.16 | | 100 | | <u> </u> | | Clay | romano |
| 0-10 | 101R 4/2 | 100 | · | | | Clay | |
| | | | , | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| ¹ Type: C=Co | oncentration, D=Depl | etion, RM=Rec | luced Matrix, CS | S=Covered or | Coated S | and Grains. ² L | ocation: PL=Pore Lining, M=Matrix. |
| Hydric Soil I | Indicators: (Applica | able to all LRR | s, unless other | rwise noted. |) | Indicato | rs for Problematic Hydric Soils ³ : |
| Histosol | (A1) | - | Sandy Gleye | ed Matrix (S4 |) | 1 cm | Muck (A9) (LRR I, J) |
| Histic Ep | oipedon (A2) | - | Sandy Redo | x (S5) | | Coas | st Prairie Redox (A16) (LRR F,G, H) |
| Black His | stic (A3) | - | Stripped Ma | trix (S6) | | Dark | Surface (S7) (LRR G) |
| Hydroger | n Sulfide (A4) | - | Loamy Much | ky Mineral (F | 1) | High | Plains Depressions (F16) |
| Stratified | d Layers (A5) (LRR F) | - | Loamy Gley | ed Matrix (F2 | :) | (LRR | H outside MLRA 72 & 73) |
| 1 cm Mu | ick (A9) (LRR F, G, H) | - | Depleted Ma | atrix (F3) | | Redu | uced Vertic (F18) |
| Depleted | d Below Dark Surface | (A11) | Redox Dark | Surface (F6) | | Red | Parent Material (TF2) |
| Thick Da | ark Surface (A12) | - | Depleted Da | ark Surface (F | -7) | Very | Shallow Dark Surface (TF12) |
| Sandy M | lucky Mineral (S1) | - | Redox Depr | essions (F8) | | Othe | r (Explain in Remarks) |
| 2.5 cm N | Aucky Peat or Peat (S | 52)(LRR G,H) | High Plains | Depressions | (F16) | ³ Indicators of hydrophy | tic vegetation and wetland hydrology must be |
| 5 cm Mu | icky Peat or Peat (S3 |) (LRR F) | (MLRA 72 & 7 | '3 of LRR H) | | present, i | unless disturbed or problematic. |
| Restrictive I | Layer (if present): | | | | | | |
| Type: | | | | | | | |
| Depth (in | nches): | | | | | Hydric Soll F | Present? Yes No X |
| Remarks: | | | | | | | |
| Hydric soil in | ndicators were not obs | served at this lo | ocation. | | | | |
| | | | | | | | |
| | | | | | | | |
| HYDROLU | DGY | | | | | | |
| Wetland Hyd | drology Indicators: | | | | | | |
| Primary Indic | | | | | | | |
| · · · · · | cators (minimum of o | <u>ne required; ch</u> | eck all that appl | <u>y)</u> | | Seconda | ry Indicators (minimum of two required) |
| Surface | <u>cators (minimum of o</u> Water (A1) | <u>ne required; ch</u> _ | eck all that appl Salt Crust (E | <u>v)</u> 311) | | <u>Seconda</u> Surfa | ry Indicators (minimum of two required) ace Soil Cracks (B6) |
| Surface V | <u>cators (minimum of o</u> Water (A1) ater Table (A2) | <u>ne required; ch</u> _ _ | eck all that appl Salt Crust (E Aquatic Inve | y) 311) rtebrates (B1 | 3) | Seconda Surfa Surfa | ry Indicators (minimum of two required) ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) |
| Surface V High Wa | <u>cators (minimum of or</u> Water (A1) ater Table (A2) on (A3) | <u>ne required; ch</u> - - | eck all that appl Salt Crust (E Aquatic Inve | y) 311) rtebrates (B1 ulfide Odor (0 | 3) 21) | <u>Seconda</u> Surfa Drair | ry Indicators (minimum of two required) ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) nage Patterns (B10) |
| Surface V High Wa Saturatio Water Ma | cators (minimum of or Water (A1) ater Table (A2) on (A3) larks (B1) | <u>ne required; ch</u> - - - | eck all that appi Salt Crust (E Aquatic Inve Hydrogen So Dry-Season | y) 311) rtebrates (B1 ulfide Odor (C Water Table | 3) 21) (C2) | <u>Seconda</u> Surfa Drair Oxid | ry Indicators (minimum of two required) ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) nage Patterns (B10) ized Rhizospheres on Living Roots (C3) |
| Surface V High Wa Saturatio Water Ma Sedimen | cators (minimum of or Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) | <u>ne required; ch</u> - - - - | eck all that appl Salt Crust (E Aquatic Inve Hydrogen So Dry-Season Oxidized Rh | y) 311) artebrates (B1 ulfide Odor (0 Water Table izospheres o | 3) 21) (C2) n Living R | Seconda Surfa Spar Drair Oxid oots (C3) (whe | ry Indicators (minimum of two required) ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) nage Patterns (B10) ized Rhizospheres on Living Roots (C3) re tilled) |
| Surface V High Wa Saturatio Water Ma Sedimen Drift Dep | cators (minimum of or Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) | <u>ne required; ch</u> - - - - - | eck all that appl Salt Crust (E Aquatic Inve Hydrogen Si Dry-Season Oxidized Rh (where not til | y) 311) ertebrates (B1 ulfide Odor (0 Water Table izospheres o led) | 3) 21) (C2) n Living R | Seconda Surfa Spar Drair Oxid oots (C3) Cray | ry Indicators (minimum of two required) ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) nage Patterns (B10) ized Rhizospheres on Living Roots (C3) re tilled) fish Burrows (C8) |
| Surface V High Wa Saturatio Water Ma Sedimen Drift Dep Algal Ma | cators (minimum of or Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) at or Crust (B4) | <u>ne required; ch</u> - - - - - | Salt Crust (E Aquatic Inve Hydrogen S Dry-Season Oxidized Rh (where not til Presence of | y) 311) ertebrates (B1 ulfide Odor (C Water Table izospheres o Ied) Reduced Iro | 3) (C2) n Living R n (C4) | <u>Seconda</u> Surfa Spar Drair —Oxid oots (C3) (whe _Cray Satu | ry Indicators (minimum of two required) ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) nage Patterns (B10) ized Rhizospheres on Living Roots (C3) re tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) |
| Surface V High Wa Saturatio Water Ma Sedimen Drift Dep Algal Ma Iron Dep | cators (minimum of or Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) | ne required; ch - - - - - - - - - - - - - | eck all that appl Salt Crust (E Aquatic Inve Hydrogen S Dry-Season Oxidized Rh (where not til Presence of Thin Muck S | y) 311) artebrates (B1 ulfide Odor (C Water Table izospheres o led) Reduced Iro Surface (C7) | 3) (C2) n Living R n (C4) | <u>Seconda</u> Surfa Spar Drair Oxid oots (C3) (whe Cray Satu Geor | ry Indicators (minimum of two required) ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) nage Patterns (B10) ized Rhizospheres on Living Roots (C3) re tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2) |
| Surface V High Wa Saturatio Water Ma Sedimen Drift Dep Algal Ma Iron Dep Inundatic | cators (minimum of or Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial In | ne required; ch - - - - - - nagery (B7) | Aquatic Inve Salt Crust (E Aquatic Inve Hydrogen S Dry-Season Oxidized Rh (where not til Presence of Thin Muck S Other (Expla | ly) 311) ertebrates (B1 ulfide Odor (C Water Table izospheres o led) Reduced Iro Surface (C7) ain in Remark | 3) (C2) n Living R n (C4) s) | Seconda Surfa Spar Oxid oots (C3) (when Cray Satu Geon FAC | ry Indicators (minimum of two required) ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) nage Patterns (B10) ized Rhizospheres on Living Roots (C3) re tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) norphic Position (D2) -Neutral Test (D5) |
| Surface V High Wa Saturatio Water Ma Sedimen Drift Dep Algal Ma Iron Dep Inundatic Water-St | cators (minimum of or Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial In tained Leaves (B9) | ne required; ch - - - - - - nagery (B7) | Aquatic Inve Salt Crust (E Aquatic Inve Hydrogen S Dry-Season Oxidized Rh (where not til Presence of Thin Muck S Other (Expla | ly) artebrates (B1 ulfide Odor (C Water Table izospheres o led) Reduced Iro Surface (C7) ain in Remark | 13) (C2) n Living R n (C4) :s) | Seconda Surfa Spar Drair Oxid coots (C3) Cray Satu Geor FAC Fors | ry Indicators (minimum of two required) ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) nage Patterns (B10) ized Rhizospheres on Living Roots (C3) re tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2) -Neutral Test (D5) t-Heave Hummocks (D7) (LRR F) |
| Surface V High Wa Saturatio Water Ma Sedimen Drift Dep Algal Ma Iron Dep Inundatic Water-St Field Obser | cators (minimum of or Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial In tained Leaves (B9) | ne required; ch - - - - - - nagery (B7) | eck all that appl Salt Crust (E Aquatic Inve Hydrogen S Dry-Season Oxidized Rh (where not til Presence of Thin Muck S Other (Expla | ly) 311) ertebrates (B1 ulfide Odor (C Water Table izospheres o led) Reduced Iro Surface (C7) ain in Remark | 3) (C2) n Living R n (C4) s) | <u>Seconda</u> Spar Drair Oxid oots (C3) (whe Cray Satu Geor FAC Fors | ry Indicators (minimum of two required) ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) nage Patterns (B10) ized Rhizospheres on Living Roots (C3) re tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2) -Neutral Test (D5) t-Heave Hummocks (D7) (LRR F) |
| Surface V High Wa Saturatio Water Ma Sedimen Drift Dep Algal Ma Iron Dep Inundatic Water-St Field Obsert Surface Wate | cators (minimum of or Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial In tained Leaves (B9) Evations: | <u>ne required; ch</u> - - - - - - - - - - - - - - - - - - - | eck all that appl Salt Crust (f Aquatic Inve Hydrogen S Dry-Season Oxidized Rh (where not til Presence of Thin Muck S Other (Expla | ly) 311) artebrates (Br ulfide Odor (C Water Table iizospheres o led) Reduced Iro Surface (C7) ain in Remark | 13) (C2) n Living R n (C4) :s) | Seconda Surfa Spar Drair Oxid Oxid Oxid Oxid Oxid Cray Satu Geor FAC Fors | ry Indicators (minimum of two required) ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) nage Patterns (B10) ized Rhizospheres on Living Roots (C3) re tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2) -Neutral Test (D5) t-Heave Hummocks (D7) (LRR F) |
| Surface V High Wa Saturatio Water Ma Sedimen Drift Dep Algal Ma Iron Dep Inundatic Water-St Field Observ Surface Water Vater Table | cators (minimum of or Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial In tained Leaves (B9) vations: ter Present? Yes Present? Yes | ne required; ch - - - - - - - - - - - - - - - - - - - | eck all that appl Salt Crust (F Aquatic Inve Hydrogen S Dry-Season Oxidized Rh (where not til Presence of Thin Muck S Other (Expla | ly) 311) ertebrates (B ² ulfide Odor (C Water Table izospheres o led) Reduced Iro Surface (C7) ain in Remark epth (inches) epth (inches) | 13) 21) (C2) n Living R n (C4) :s) : <u></u> | Seconda Surfa Spar Drair Oxid Oxid Oxid Oxid Cray Satu Geon FAC Fors | ry Indicators (minimum of two required) ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) nage Patterns (B10) ized Rhizospheres on Living Roots (C3) re tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) norphic Position (D2) -Neutral Test (D5) t-Heave Hummocks (D7) (LRR F) |

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Saturation Present? (includes capillary fringe)

Hydrologic indicators were not observed at this location.

| Project/Site: FM 971 | | City/Cou | nty: Georgetow | n/Williamson | Sa | mpling Da | ite: 7/3 | 1/2023 |
|--|----------------|------------|----------------------------|---|-------------------------------|--|-------------------------|----------|
| Applicant/Owner: City of Georgetown | | | | State: 1 | TX Sa | mpling Po | int: | Up 7 |
| Investigator(s): Tamura Dunbar | | | Section, Towns | ship, Range: <u>n/a</u> | | | | |
| Landform (hillside, terrace, etc.): <u>Plains</u> | | Local re | elief (concave, co | onvex, none): <u>conc</u> | ave | Slope | (%): | 1 |
| Subregion: LRR J, MLRA 86A Lat: | 30.66343 | 9 | Long: | -97.651632 | Datu | m: | NAD 83 | |
| Soil Map Unit Name: Heiden clay, 1 to 3 percent slopes | (Heb) | | | NWI | classificatio | on: | n/a | |
| Are climatic / hydrologic conditions on the site typical fo | r this time of | year? | Yes X | No (If | no, explain i | in Remark | s.) | |
| Are Vegetation No , Soil No , or Hydrology No si | ignificantly d | isturbed? | Are "Normal | Circumstances" pr | esent? Y | es X | No | |
| Are Vegetation No , Soil No , or Hydrology No na | aturally prob | lematic? | (If needed, ex | xplain any answers | in Remark | s.) | | |
| SUMMARY OF FINDINGS – Attach site map sh | owing san | npling p | oint locations | s, transects, im | portant fe | atures, e | etc. | |
| Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNoWetland Hydrology Present?YesNo | X X X | ls | the Sampled within a Wetla | Area nd? Yes | | No | x | _ |
| Remarks: This location does not meet the criteria to be considered | ed a wetland | | | | | | | |
| VEGETATION – Use scientific names of plar | nts. | | | | | | | |
| | Absolute | Dominar | nt Indicator | | | | | |
| <u>Tree Stratum</u> (Plot size: <u>30-ft radius</u>) | % Cover | Species | ? Status | Dominance Te | est workshe | et: | | |
| 2. | | | | Are OBL. FAC | ninant Spec N. or FAC: | ies That | 0 | (A) |
| 3. | | | | Total Number o | of Dominant | - Species | | _`` |
| 4 | | | | Across All Strat | ta: | · _ | 1 | (B) |
| 5 | = | Total Co | ver | Percent of Dom Are OBL, FAC | ninant Speci N, or FAC: | ies That - | 0.0% | _(A/B) |
| 1. |) | | | Prevalence Inc | dex worksh | eet: | | |
| 2. | | | | Total % Co | over of: | Mu | ltiply by: | |
| 3. | | | | OBL species | 0 | x 1 = | 0 | |
| 4 | | | | FACW species | 0 | _ x2=_ | 0 | _ |
| 5 | | - Total Ca | | FAC species | 0 | $- \frac{x^3}{x^4} = -$ | 360 | _ |
| Herb Stratum (Plot size: 5-ft radius) | | | vei | UPL species | 0 | - ^+ x5= | 0 | |
| 1. Cynodon dactylon | 90 | Yes | FACU | Column Totals: | 90 | (A) | 360 | (B) |
| 2. | | | | | | | | |
| 3 | | | | Prevalence I | ndex = B/A | . = | 4 | |
| 4 | | | | Hydrophytic V | egetation I | ndicators | : | |
| 5 | | | | 2 - Domina | est for Hydr | | egetation | |
| 7. | | | | 3 - Prevale | nce Index is | $\leq 3.0^{1}$ | | |
| 8 | | | | 4 - Morpho data in R | logical Adap emarks or o | otations ¹ (I n a separa | Provide su te sheet) | pporting |
| 10 | | | | Problemati | c Hydrophyl | tic Vegeta | tion ¹ (Exp | ain) |
| Woody Vine Stratum (Plot size: 30-ft radius | 90 = | Total Co | ver | ¹ Indicators of h be present, uni | ydric soil an ess disturbe | d wetland d or probl | hydrology ematic. | / must |
| 1. 2. | | - Total Co | | Hydrophytic Vegetation Present? | Yes | No | x | |

Remarks:

Hydrophitic vegetation indicators were not observed at this location. % Bare Ground in Herb Stratum was 10%.

| Profile Desc | ription' (Describe) | | 66V6V1V/V/V/ | | o maioc | | confirm the abs | | | |
|---|---|--|---|--|--|------------------------------|------------------------------|------------------------|--|--|
| Denth | Matrix | | Redo | v Feature | 20 | | | | , | |
| (inches) | Color (moist) | % C(| olor (moist) | % | Tvne ¹ | $l oc^2$ | Texture | | Remarks | |
| 0_16 | 10VR 3/3 | 100 | | | -1940 | | Clay | | 1.01 | |
| 0-10 | 10113/5 | 100 | | | | | Oldy | | | |
| | | · | | | | | | | | |
| | | · | | | | | | | | |
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| | | | | | | | | | | |
| | | <u> </u> | | | | | | | | |
| ¹ Type: C=Cc | oncentration, D=Dep | letion, RM=Rec | luced Matrix, C | CS=Cove | red or Co | oated S | and Grains. | ² Location: | PL=Pore Lining, | M=Matrix. |
| Hydric Soil I | ndicators: (Applic | able to all LRR | s, unless oth | erwise n | oted.) | | In | dicators for Pro | oblematic Hydri | c Soils ³ : |
| - Histosol (| (A1) | | Sandy Gle | yed Matri | ix (S4) | | | 1 cm Muck (A | 9) (LRR I, J) | |
| Histic Epi | ipedon (A2) | - | Sandy Red | dox (S5) | | | | Coast Prairie | Redox (A16) (LR | R F,G, H) |
| Black His | stic (A3) | - | Stripped N | latrix (S6) |) | | | Dark Surface | (S7) (LRR G) | |
| Hydroger | n Sulfide (A4) | _ | Loamy Mu | cky Mine | ral (F1) | | | High Plains D | epressions (F16) |) |
| Stratified | Layers (A5) (LRR F) | | Loamy Gle | eyed Matr | rix (F2) | | . <u> </u> | (LRR H outside | MLRA 72 & 73) | |
| 1 cm Muo | ck (A9) (LRR F, G, H) | _ | Depleted M | /latrix (F3 | 3) | | | Reduced Vert | ic (F18) | |
| Depleted | Below Dark Surface | e (A11) | Redox Dai | rk Surface | e (F6) | | | Red Parent M | aterial (TF2) | |
| Thick Dar | rk Surface (A12) | _ | Depleted [| Dark Surfa | ace (F7) | | | Very Shallow | Dark Surface (TF | =12) |
| Sandy M | ucky Mineral (S1) | _ | Redox Dep | oressions | ; (F8) | | | Other (Explain | n in Remarks) | |
| 2.5 cm M | lucky Peat or Peat (| S2)(LRR G,H) | High Plain | s Depres | sions (F | 16) | ³ Indicators of h | vdrophytic vegetat | ion and wetland hyd | drology must be |
| 5 cm Muo | cky Peat or Peat (S3 | 3) (LRR F) | (MLRA 72 8 | 73 of LRI | R H) | | р | resent, unless dist | urbed or problemati | c. |
| | | | | | | | | | | |
| Restrictive L | .ayer (if present): | | | | | | | | | |
| Restrictive L Type: | _ayer (if present): | | | | | | | | | |
| Restrictive L Type: Depth (in | _ayer (if present): | | | | | | Hydric | Soil Present? | Yes | No X |
| Restrictive L Type: Depth (in: Remarks: | _ayer (if present): | | | | | | Hydric | Soil Present? | Yes | NoX |
| Restrictive L Type: Depth (in Remarks: Hydric soil in | Layer (if present): | served at this lo | ocation. | | | | Hydric | Soil Present? | Yes | <u>No X</u> |
| Restrictive L Type: _ Depth (in Remarks: Hydric soil ind | Layer (if present): | served at this lo | ocation. | | | | Hydric | Soil Present? | Yes | <u>No X</u> |
| Restrictive L Type: Depth (in Remarks: Hydric soil ind | Layer (if present): | pserved at this lo | ocation. | | | | Hydric | Soil Present? | Yes | <u>No X</u> |
| Restrictive L Type: _ Depth (in Remarks: Hydric soil ind | Layer (if present): | served at this lo | ocation. | | | | Hydric | Soil Present? | Yes | <u>No X</u> |
| Restrictive L Type: _ Depth (in Remarks: Hydric soil ind HYDROLO Wetland Hyd | Layer (if present): Inches): dicators were not ob GY Irology Indicators: | oserved at this lo | ocation. | | | | Hydric | Soil Present? | Yes | <u>No X</u> |
| Restrictive L Type: _ Depth (in Remarks: Hydric soil ind HYDROLO Wetland Hyd Primary Indic | Layer (if present): Iches): dicators were not ob GY Irology Indicators: Eators (minimum of o | pserved at this lo | ocation. eck all that ap | ply) | | | Hydric | Soil Present? | Yes | <u>No X</u> |
| Restrictive L Type: _ Depth (in Remarks: Hydric soil ind HYDROLO Wetland Hyd Primary Indic Surface V | Layer (if present): Inches): dicators were not ob GY Irology Indicators: iators (minimum of o Water (A1) | served at this lo | ocation. | <u>ply)</u> (B11) | | | Hydric | Soil Present? | Yes ors (minimum of Cracks (B6) | <u>No X</u> |
| Restrictive L Type: _ Depth (in Remarks: Hydric soil ind HYDROLO Wetland Hyd Primary Indic Surface V High Wat | Layer (if present): Inches): dicators were not ob GY Strology Indicators: Eators (minimum of of Nater (A1) Ere Table (A2) | served at this lo | eck all that ap Salt Crust | ply) (B11) vertebrate | es (B13) | | Hydric | Soil Present? | Yes ors (minimum of Cracks (B6) etated Concave S | <u>No X</u> two required) Surface (B8) |
| Restrictive L Type: _ Depth (in Remarks: Hydric soil ind HyDROLO Wetland Hyd Primary Indic Surface V High Wat Saturation | ayer (if present): iches): dicators were not ob GY trology Indicators: ators (minimum of o Nater (A1) ier Table (A2) n (A3) | pserved at this lo | eck all that ap Salt Crust Aquatic In Hydrogen | ply) (B11) vertebrate Sulfide O | es (B13) |) | Hydric | Soil Present? | Yes ors (minimum of Cracks (B6) etated Concave S erns (B10) | <u>No X</u> two required) Surface (B8) |
| Restrictive L Type: _ Depth (in Remarks: Hydric soil ind HYDROLO Wetland Hyd Primary Indic Surface V High Wat Saturation Water Ma | Layer (if present): Inches): dicators were not ob GY trology Indicators: Eators (minimum of of Nater (A1) ter Table (A2) n (A3) arks (B1) | pserved at this lo | eck all that ap salt Crust Aquatic In Hydrogen Dry-Seaso | ply) (B11) vertebrate Sulfide O m Water | es (B13) Idor (C1) Table (C |) | Hydric | Soil Present? | Yes ors (minimum of Cracks (B6) etated Concave S erns (B10) ospheres on Livi | <u>No X</u> two required) Surface (B8) ng Roots (C3) |
| Restrictive L Type: _ Depth (in Remarks: Hydric soil ind HYDROLO Wetland Hyd Primary Indic Surface V High Wat Saturation Water Ma Sediment | Ager (if present): aches): dicators were not ob GY frology Indicators: ators (minimum of o Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) | served at this lo | eck all that ap Salt Crust Aquatic In Hydrogen Dry-Seaso Oxidized F | <u>ply)</u> (B11) vertebrate Sulfide O sn Water | es (B13) dor (C1) Table (C eres on L |) .iving R | Hydric | Soil Present? | Yes ors (minimum of Cracks (B6) etated Concave S erns (B10) ospheres on Livi | <u>No X</u> <u>two required</u>) Surface (B8) ng Roots (C3) |
| Restrictive L Type: _ Depth (in Remarks: Hydric soil ind HYDROLO Wetland Hyd Primary Indic Surface V High Wat Saturation Water Ma Sediment Drift Dept | ayer (if present): iches): dicators were not ob GY frology Indicators: ators (minimum of o Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) | served at this lo | eck all that ap Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized F (where not | ply) (B11) vertebrate Sulfide O n Water ⁻ Rhizosphe tilled) | es (B13) Idor (C1) Table (C Peres on L |) ;2) .iving R | Hydric | Soil Present? | Yes ors (minimum of Cracks (B6) etated Concave S erns (B10) ospheres on Livi ows (C8) | <u>No X</u> two required) Surface (B8) ng Roots (C3) |
| Restrictive L Type: _ Depth (in Remarks: Hydric soil ind HYDROLO Wetland Hyd Primary Indic Surface V High Wat Saturation Water Ma Sediment Drift Depo Algal Mat | ayer (if present): the ches): dicators were not ob GY trology Indicators: ators (minimum of of Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) | oserved at this lo one required; ch | eck all that ap Salt Crust Aquatic In Hydrogen Dry-Seaso Oxidized F (where not Presence | ply) (B11) vertebrate Sulfide O n Water Rhizosphe tilled) of Reduce | es (B13))dor (C1) Table (C eres on L ed Iron (|) 22) Living R | Hydric | Soil Present? | Yes ors (minimum of Cracks (B6) etated Concave S erns (B10) ospheres on Livi ows (C8) iible on Aerial Im | <u>No X</u> <u>two required</u>) Surface (B8) ng Roots (C3) agery (C9) |
| Restrictive L Type: _ Depth (in Remarks: Hydric soil ind HYDROLO Wetland Hyc Primary Indic Surface V High Wat Saturation Water Ma Sediment Drift Dept Algal Mat | ayer (if present): the ches): dicators were not ob GY drology Indicators: ators (minimum of o Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) | pserved at this lo | eck all that ap Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized F (where not Presence Thin Muck | ply) (B11) vertebrate Sulfide O on Water Rhizosphe tilled) of Reducc Surface | es (B13) odor (C1) Table (C eres on L ed Iron ((C7) |) :2) Living R C4) | Hydric | Soil Present? | Yes ors (minimum of Cracks (B6) etated Concave S erns (B10) ospheres on Livi ows (C8) ible on Aerial Im Position (D2) | <u>No X</u> <u>two required</u>) Surface (B8) ng Roots (C3) agery (C9) |
| Restrictive L Type: _ Depth (in Remarks: Hydric soil ind HYDROLO Wetland Hyc Primary Indic Surface V High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio | ayer (if present): inches): dicators were not ob GY drology Indicators: ators (minimum of o Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) psits (B5) in Visible on Aerial Ir | oserved at this lo | eck all that ap Salt Crust Aquatic Im Hydrogen Dry-Seaso Oxidized F (where not Presence Thin Muck Other (Exp | ply) (B11) vertebrate Sulfide O on Water Rhizosphe tilled) of Reduce Surface olain in Re | es (B13) dor (C1) Table (C eres on L ed Iron ((C7) emarks) |) 22) Living R (C4) | Hydric | Soil Present? | Yes Ors (minimum of Cracks (B6) etated Concave S erns (B10) ospheres on Livi pows (C8) sible on Aerial Im Position (D2) Fest (D5) | <u>No X</u> <u>two required</u>) Surface (B8) ng Roots (C3) agery (C9) |
| Restrictive L Type: _ Depth (in Remarks: Hydric soil ind HYDROLO Wetland Hyc Primary Indic Surface V High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio Water-Sta | ayer (if present): inches): dicators were not ob GY drology Indicators: ators (minimum of c Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) n Visible on Aerial Ir ained Leaves (B9) | oserved at this lo | eck all that ap Salt Crust Aquatic In Dry-Seasc Oxidized F (where not Presence Thin Muck Other (Exp | ply) (B11) vertebrate Sulfide O on Water Rhizosphe tilled) of Reduce Surface blain in Re | es (B13) dor (C1) Table (C eres on L ed Iron ((C7) emarks) |) :2) .iving R :C4) | Hydric | Soil Present? | Yes ors (minimum of Cracks (B6) etated Concave S erns (B10) ospheres on Livi ows (C8) ible on Aerial Im Position (D2) Fest (D5) Hummocks (D7) (| <u>No X</u> <u>two required</u>) Surface (B8) ng Roots (C3) agery (C9) |
| Restrictive L Type: _ Depth (in Remarks: Hydric soil ind HYDROLO Wetland Hyc Primary Indic Surface V High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio Water-Sta | ayer (if present): iches): dicators were not ob GY trology Indicators: ators (minimum of c Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) in Visible on Aerial Ir ained Leaves (B9) vations: | one required; ch | eck all that ap Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized F (where not Presence Thin Muck Other (Exp | ply) (B11) vertebrate Sulfide O on Water Rhizosphe tilled) of Reduce Surface blain in Re | es (B13) odor (C1) Table (C eres on L ed Iron ((C7) emarks) |) 22) Living R C4) | Hydric | Soil Present? | Yes ors (minimum of Cracks (B6) etated Concave S erns (B10) ospheres on Livi ows (C8) sible on Aerial Im Position (D2) Fest (D5) Hummocks (D7) (| <u>No X</u> <u>two required)</u> Surface (B8) ng Roots (C3) agery (C9) (LRR F) |
| Restrictive L Type: _ Depth (in Remarks: Hydric soil ind HYDROLO Wetland Hyc Primary Indic Surface V High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio Water-Sta Field Observ Surface Water | ayer (if present): aches): dicators were not ob GY drology Indicators: ators (minimum of c Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) n Visible on Aerial Ir ained Leaves (B9) /ations: ar Present? Ye | one required; ch | eck all that ap Salt Crust Aquatic Im Dry-Seaso Oxidized F (where not Presence of Thin Muck Other (Exp | ply) (B11) vertebrate Sulfide O on Water Rhizosphe tilled) of Reduce Surface blain in Re Depth (in | es (B13) odor (C1) Table (C eres on L ed Iron ((C7) emarks) uches): |) :2) .iving R C4) | Hydric | Soil Present? | Yes ors (minimum of Cracks (B6) etated Concave S erns (B10) ospheres on Livi ows (C8) ible on Aerial Im Position (D2) Fest (D5) Hummocks (D7) (| <u>No X</u> <u>two required</u>) Surface (B8) ng Roots (C3) agery (C9) (LRR F) |
| Restrictive L Type: _ Depth (in Remarks: Hydric soil ind HYDROLO Wetland Hyc Primary Indic Surface V High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio Water-Sta Surface Water Surface Water Surface Water Surface Water Water Table | ayer (if present): aches): dicators were not ob GY drology Indicators: ators (minimum of c Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) in Visible on Aerial Ir ained Leaves (B9) vations: er Present? Ye Present? Ye | pserved at this lo | eck all that ap Salt Crust Aquatic Im Hydrogen Dry-Seaso Oxidized F (where not Presence Thin Muck Other (Exp No No | ply) (B11) vertebrate Sulfide O on Water Rhizosphe tilled) of Reduce Surface olain in Re Depth (in Depth (in | es (B13) odor (C1) Table (C eres on L ed Iron ((C7) emarks) emarks): |) :2) .iving R (C4) | Hydric | Soil Present? | Yes ors (minimum of Cracks (B6) etated Concave S erns (B10) ospheres on Livi ows (C8) sible on Aerial Im Position (D2) Fest (D5) Hummocks (D7) (| No X two required) Surface (B8) ng Roots (C3) agery (C9) (LRR F) |

Hydrologic indicators were not observed at this location.

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Saturation Present? (includes capillary fringe)

Remarks:

| Project/Site: FM 971 | | City/Cou | nty: Georgetowr | n/Williamson | S | ampling Da | ate: 7/3 | 31/2023 |
|--|---|-------------|-----------------------------|---|-----------------------------|---------------------------|------------------------|----------|
| Applicant/Owner: City of Georgetown | | _ | | State: 1 | rx sa | ampling Po | int: | Up 8 |
| Investigator(s): Tamura Dunbar | | | Section, Towns | ship, Range: <u>n/a</u> | | | | |
| Landform (hillside, terrace, etc.): <u>Plains</u> | | Local re | elief (concave, co | nvex, none): <u>conc</u> | ave | Slope | (%): | 1 |
| Subregion: LRR J, MLRA 86A Lat: | 30.66122 | 7 | Long: | -97.639609 | Date | um: | NAD 83 | |
| Soil Map Unit Name: Krum silty clay, 1 to 3 percent slo | pes (Krb) | | | NWI | classificat | ion: | n/a | |
| Are climatic / hydrologic conditions on the site typical for | or this time of | year? | Yes X | No (If | no, explain | in Remark | s.) | |
| Are Vegetation No , Soil No , or Hydrology No s | ignificantly d | isturbed? | Are "Normal (| Circumstances" pr | esent? | Yes <u>X</u> | No | _ |
| Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> r | aturally prob | lematic? | (If needed, ex | plain any answers | s in Remar | ks.) | | |
| SUMMARY OF FINDINGS – Attach site map sh | lowing san | npling po | oint locations | , transects, im | portant fe | eatures, e | etc. | |
| Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No | | ls v | the Sampled vithin a Wetlan | Area nd? Yes | | No | x | _ |
| Remarks: This location does not meet the criteria to be consider | ed a wetland | | | | | | | |
| VEGETATION – Use scientific names of pla | nts. | | | | | | | |
| Trace Otherstrong (Distriction 20.6 modius) | Absolute | Dominan | t Indicator | Deminence Te | | | | |
| <u>1. (Piol size: 30-it radius</u>) | % Cover | Species | | Dominance re | est worksn | eet: | | |
| 2. | | | | Are OBL, FAC | N, or FAC: | cies mai | 0 | (A) |
| 3. | | | | Total Number o | of Dominan | t Species | | _ |
| 4 | | | | Across All Stra | ta: | - | 1 | (B) |
| 5 Sanling/Shrub Stratum (Plot size: 15-ft radius | ======================================= | = Total Cov | ver | Percent of Dom Are OBL, FAC | ninant Spe N, or FAC: | cies That - | 0.0% | _(A/B) |
| 1. | / | | | Prevalence Inc | dex works | heet: | | |
| 2. | | | | Total % C | over of: | Mu | ltiply by: | _ |
| 3 | | | | OBL species | 0 | x 1 = | 0 | _ |
| 4 | | | | FACW species | 0 | x2= | 0 | _ |
| 5 | | - Total Ca | | FAC species | 0 | $- x^{3} = -$ | 0 | _ |
| Herb Stratum (Plot size: 5-ft radius) | | | VCI | UPL species | 0 | - ^4- x5= | 0 | _ |
| 1. Cynodon dactylon | 90 | Yes | FACU | Column Totals: | 90 | (A) - | 360 | (B) |
| 2. | | | | | | | | |
| 3 | | | | Prevalence I | Index = B/ | A = | 4 | |
| 4 | | | | Hydrophytic V | egetation | Indicators | : | |
| 5 | | | | 1 - Rapid I | est for Hyd | | egetation | |
| 7 | | | | 2 - Domina 3 - Prevale | nce Index | 5 > 50% | | |
| 8. | | | | 4 - Morpho | logical Ada | aptations ¹ (I | Provide su | pporting |
| 9. | | | | data in R | emarks or o | on a separa | te sheet) | |
| 10 | | | | Problemati | c Hydroph | ytic Vegeta | tion ¹ (Exp | lain) |
| Woody Vine Stratum (Plot size: <u>30-ft radius</u> | 90 = | = Total Cov | ver | ¹ Indicators of h be present, unl | ydric soil a ess disturb | nd wetland ed or probl | hydrolog ematic. | y must |
| 1 | | | | Hydrophytic | | | | |
| 2 | | = Total Cov | ver | Vegetation Present? | Yes | No | x | |

Remarks:

Hydrophitic vegetation indicators were not observed at this location. % Bare Ground in Herb Stratum was 10%.

| Profile Des | rintion: (Describe to | the depth | nonded to doe | umont th | o indica | tor or c | onfirm the | absonco of i | ndicator | c) | | | |
|---|--------------------------|----------------------------|---|--|------------------------------|----------|-------------------------------|--|--------------------------|-------------------|------------------------|-------|--|
| Dopth | Motrix | the depth | Pode | v Eosturo | | | | absence of i | nuicators | 5.) | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | loc^2 | Tov | turo | | Romarks | | | |
| 0.16 | | 100 | | 70 | турс | LUC | | | | Romanto | | | |
| 0-10 | 101R 3/1 | 100 | | | | | | ay | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 1 Type: C=C | oncentration D=Deplet | ion RM=Re | duced Matrix (| | ed or Cu | | and Grains | ² l oc: | ation: PL | =Pore Lining | M=Matrix | , | |
| Hydric Soil | Indicators: (Applicab | le to all LR | Rs. unless oth | erwise n | oted.) | | | Indicators f | or Proble | matic Hvdrid | : Soils ³ : | | |
| Histosol | (A1) | | Sandy Gle | eved Matri | x (S4) | | | 1 cm Mu | ick (A9) (I | LRR I. J) | | | |
| Histic Ep | pipedon (A2) | | Sandy Bedox (S5) | | | | | Coast P | rairie Red | lox (A16) (LRF | R F.G. H) | | |
| Black Hi | stic (A3) | | Stripped Matrix (S6) | | | | | Dark Su | rface (S7 |) (LRR G) | | | |
| Hydroge | n Sulfide (A4) | | Loamy Mu | icky Mine | ral (F1) | | High Plains Depressions (F16) | | | | | | |
| Stratified | Layers (A5) (LRR F) | | Loamy Glo | | (LRR H outside MLRA 72 & 73) | | | | | | | | |
| 1 cm Muck (A9) (LRR F, G, H) | | | Depleted Matrix (F3) | | | | | Reduced Vertic (F18) | | | | | |
| Depleted Below Dark Surface (A11) | | | Redox Dark Surface (F6) | | | | | Red Par | l Parent Material (TF2) | | | | |
| Thick Dark Surface (A12) | | | Depleted I | Depleted Dark Surface (F7) Very Shallow Dark Surface | | | | | k Surface (TF | 12) | | | |
| Sandy Mucky Mineral (S1) | | | Redox Depressions (F8) Oth | | | | | Other (E | xplain in | Remarks) | | | |
| 2.5 cm Mucky Peat or Peat (S2)(LRR G,H) | | | High Plains Depressions (F16) ³ Indicators of hydrop | | | | | of hydrophytic v | egetation a | and wetland hyd | rology mus | st be | |
| 5 cm Mu | cky Peat or Peat (S3) (| LRR F) | (MLRA 72 8 | \$ 73 of LRF | R H) | | | present, unle | ss disturbe | d or problemation | o. | | |
| Restrictive | Layer (if present): | | | | | | | | | | | | |
| Type: | | | | | | | | | | | | | |
| Depth (inches): | | | | | | | Hy | dric Soil Pres | ent? | Yes | No | Х | |
| Remarks: | | | | | | - | | | | | | | |
| Hydric soil ir | idicators were not obse | rved at this | location. | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| HYDROLC | GY | | | | | | | | | | | | |
| Wetland Hy | drology Indicators: | | | | | | | | | | | | |
| Primary Indi | cators (minimum of one | e required; c | heck all that ap | oply) | | | | Secondary I | ndicators | (minimum of | two requii | red) | |
| Surface | Surface Water (A1) | | | Salt Crust (B11) | | | | | Surface Soil Cracks (B6) | | | | |
| High Water Table (A2) | | | Aquatic Invertebrates (B13) | | | | | Sparsely Vegetated Concave Surface (B8) | | | | | |
| Saturation (A3) | | | Hydrogen Sulfide Odor (C1) | | | | | Drainage Patterns (B10) | | | | | |
| Water Marks (B1) | | | Dry-Season Water Table (C2) | | | | | Oxidized Rhizospheres on Living Roots (C3) | | | | | |
| Sediment Deposits (B2) | | | Oxidized Rhizospheres on Living Roots (C3) | | | | (where tilled) | | | | | | |
| Drift Deposits (B3) | | | (where not tilled) | | | | | Crayfish Burrows (C8) | | | | | |
| Algal Mat or Crust (B4) | | | Presence of Reduced Iron (C4) | | | | | Saturation Visible on Aerial Imagery (C9) | | | |) | |
| Iron Deposits (B5) | | | Thin Muck Surface (C7) | | | | | Geomorphic Position (D2) | | | | | |
| Inundatio | on Visible on Aerial Ima | Other (Explain in Remarks) | | | | | FAC-Neutral Test (D5) | | | | | | |
| Water-S | tained Leaves (B9) | | | | | | 1 | ⊢orst-He | eave Hum | mocks (D7) (| LRR F) | | |
| Field Obser | vations: | | | | | | | | | | | | |
| Surface Wat | er Present? Yes | | No | Depth (in | ches): | | 1 | | | | | | |

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

No

No

Depth (inches):

Depth (inches):

Remarks:

Water Table Present?

(includes capillary fringe)

Saturation Present?

Hydrologic indicators were not observed at this location.

Yes

Yes

Yes

No

Х

Wetland Hydrology Present?



| Coordinates | 30.656153, -97.662779 | 30 Days Ending | 30 th %ile (in) | 70 th %ile (in) | Observed (in) | Wetness Condition | Condition Value | Month Weight | Product |
|----------------------------------|----------------------------|----------------|----------------------------|----------------------------|---------------|-------------------|-----------------|--------------|-----------------------|
| Observation Date | 2023-07-13 | 2023-07-13 | 1.470472 | 4.834252 | 0.070866 | Dry | 1 | 3 | 3 |
| Elevation (ft) | 690.501 | 2023-06-13 | 2.527953 | 5.145669 | 1.633858 | Dry | 1 | 2 | 2 |
| Drought Index (PDSI) | Moderate drought (2023-06) | 2023-05-14 | 1.335039 | 5.198032 | 4.259843 | Normal | 2 | 1 | 2 |
| WebWIMP H ₂ O Balance | Dry Season | Result | | | | | | | Drier than Normal - 7 |

| CORPS OF LIGHT | Fig |
|----------------|-----|
| | |
| | υ. |

gure and tables made by the ntecedent Precipitation Tool Version 1.0

> Written by Jason Deters S. Army Corps of Engineers

| Weather Station Name | Coordinates | Elevation (ft) | Distance (mi) | Elevation A | Weighted A | Dave Normal | Dave Antecedent |
|----------------------|-------------------|----------------|-----------------|-------------|------------|-------------|-----------------|
| | Coordinates | | Distance (IIII) | Lievation A | Weighted A | Days Norman | Days Antecedent |
| GEORGETOWN LAKE | 30.6764, -97.7208 | 874.016 | 3.721 | 183.515 | 2.357 | 10804 | 88 |
| GEORGETOWN 3.0 NW | 30.6801, -97.7198 | 881.89 | 0.262 | 7.874 | 0.12 | 4 | 0 |
| GEORGETOWN 2.8 NNW | 30.6813, -97.7117 | 854.003 | 0.638 | 20.013 | 0.3 | 309 | 0 |
| GEORGETOWN 2.2 NW | 30.6692, -97.714 | 820.866 | 0.641 | 53.15 | 0.323 | 88 | 0 |
| GEORGETOWN 3.9 NW | 30.6898, -97.7311 | 882.874 | 1.11 | 8.858 | 0.509 | 6 | 0 |
| GEORGETOWN 1.5 WNW | 30.6575, -97.7093 | 799.869 | 1.474 | 74.147 | 0.773 | 10 | 0 |
| GEORGETOWN 2.0 N | 30.6763, -97.6926 | 783.137 | 1.676 | 90.879 | 0.907 | 13 | 0 |
| GEORGETOWN 1.1 WNW | 30.6559, -97.7021 | 756.89 | 1.8 | 117.126 | 1.021 | 19 | 2 |
| GEORGETOWN 1.2 W | 30.6504, -97.7069 | 799.869 | 1.977 | 74.147 | 1.036 | 35 | 0 |
| GEORGETOWN 4.9 NW | 30.7061, -97.7339 | 845.144 | 2.195 | 28.872 | 1.051 | 15 | 0 |
| JARRELL | 30.8294, -97.6011 | 875.984 | 12.738 | 1.968 | 5.757 | 50 | 0 |

| Sep | Oct | Nov |
|------|------|------|
| 2023 | 2023 | 2023 |