





Port of Terrebonne - West Bank

Exhibit 28 – Wetland Delineation Report



WETLAND DELINEATION

For

Louisiana Economic Development (LED) Certified Sites Program West Bank Site Terrebonne Parish, LA

Prepared for:

Terrebonne Parish Port Commission

January 2024



PREFACE

This Wetland Delineation was prepared for Terrebonne Parish Port Commission in preparation for the Louisiana Economic Development (LED) Louisiana Certified Sites Program West Bank Site. This document was completed in January 2024 by Delta Coast Consultants, LLC. principle investigator, Ronnie W. Duke, Jr. Mr. Duke can be contacted at:

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INTRODUCTION

Terrebonne Port Commission is requesting a Louisiana Economic Development (LED) Site Certification for the subject property located along Rome Woodard Drive in Houma, Section 12, T17S-R17E, Terrebonne Parish, LA (Attachment A). The delineated area compromises <u>+</u> 37.79 acres and is approximately 0.45 miles south of Houma city limits and has approximately 1,400 feet of water frontage. The Gulf of Mexico is approximately 37 nautical miles south, with the Houma Navigation Canal located 1 nautical mile from the site and the Intracoastal Waterway 2.3 miles to the northwest. The subject property is located in an active industrial area within the port, with Louisiana CAT located to the north and Eagle Dry-Dock and Marine Services located to the south. The delineated area consisted of an open maintained field located between the two aforementioned businesses. The area received average rainfall over the course of the previous couple weeks prior to the site visit. A field investigation was conducted on December 19, 2023.

METHODS

The U.S. Army Corps of Engineers (USACE) method for routine wetland determination (1987 COE Wetlands Delineation Manual) was utilized in conjunction with Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (Version 2.0). Initial review of soils data was obtained from the USDA-NRCS Web Soil Survey of Terrebonne Parish (Attachment D). The indicator status of plants was obtained from the USACE Atlantic and Gulf Coastal Plain Region-NWPL 2020 Final Ratings.



RESULTS AND DISCUSSION

The delineated area compromised \pm 37.79 acres and is bordered by a drainage ditch along Rome Woodard Street to the West, slips off of the Houma Navigation Canal to the South and East, and a vacant lot to the North. The area delineated consisted of a well-maintained field with a drainage swale leading to a ditch that runs along Rome Woodard Street. The property appeared to be regularly maintained by bush hogging.

The delineated area consisted of two distinct habitat types. The first habitat type was comprised of various grass species and other herbaceous species. This habitat type was located in the open field and was the majority of the habitat identified within the property. The second habitat type consisted of small trees, shrubs and herbaceous species. This habitat type was located directly adjacent to the slips bordering the property to the east and south. According to the Soil Survey of Terrebonne Parish by the USDA Web Soil Survey (2022), the mapped soils for the delineated site are Fausse clay, 0 to 1 percent slopes, frequently flooded. (Attachment D). The soil survey appears accurate for the overall gradient of the site observed. The site appears to drain after a rain event towards the drainage swale located near the center of the property and to the existing drainage ditch to the west along Rome Woodard Street.

Ten (10) sample plots were collected within the delineation boundary. The data indicated that 32.35 acres on this site are non-wet uplands, and 2.72 acres are other waters (Attachment C). No potential jurisdictional wetlands were determined to be within the delineation area. The elevation is consistent throughout the entire site in the areas considered a non-wetland. The United States Army Corps of Engineers (USACE) has the final authority over wetland determinations. A permit under section 404 of the Clean Water Act of 1972 will be required for development and certain activities in jurisdictional wetlands.



BIBLIOGRAPHY

- Munsell Color. 1975. Munsell Soil Color Charts, Kollmorgen Corporation, Baltimore MD.
- Tiner, R. W. 1999. Wetland Indicators: a guide to wetland identification, delineation, classification, and mapping. CRC Press, N.W. Boca Raton, Florida, 392 pp.

USDA – NRCS. 2022. Web Soil Survey

http://websoilsurvey.nrcs.usda.gov/app/



ATTACHMENT A VICINITY MAP





ATTACHMENT B OVERALL SITE MAP





ATTACHMENT C WETLANDS DELINEATION MAP (WITH DATA POINTS)





ATTACHMENT D SOIL MAP





National Cooperative Soil Survey

Conservation Service

| MAP | LEGEND | MAP INFORMATION | | | |
|---|---|--|--|--|--|
| Area of Interest (AOI) Area of Interest (AOI) | Spoil AreaStony Spot | The soil surveys that comprise your AOI were mapped at 1:24,000. | | | |
| Soils | Very Stony Spot | Warning: Soil Map may not be valid at this scale. | | | |
| Soil Map Unit Lines | w Wet Spot | Enlargement of maps beyond the scale of mapping can ca | | | |
| Soil Map Unit Points | △ Other | line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more de | | | |
| Special Point Features | Special Line Features | scale. | | | |
| lowout | Water Features | | | | |
| Borrow Pit | Streams and Canals | Please rely on the bar scale on each map sheet for map measurements. | | | |
| 💥 Clay Spot | +++ Rails | Source of Map: Natural Resources Conservation Service | | | |
| Closed Depression | Interstate Highways | Coordinate System: Web Mercator (EPSG:3857) | | | |
| Gravel Pit | JS Routes | Maps from the Web Soil Survey are based on the Web Me | | | |
| Gravelly Spot | 🧫 Major Roads | projection, which preserves direction and shape but distort distance and area. A projection that preserves area, such a | | | |
| | Local Roads | Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required | | | |
| | Background | This product is gaparated from the LISDA NPCS cortified a | | | |
| Marsh or swamp | Aerial Photography | of the version date(s) listed below. | | | |
| Mine or Quarry | | Soil Survey Area: Terrebonne Parish, Louisiana | | | |
| | | Survey Area Data: Version 19, Sep 12, 2023 | | | |
| Perennial Water Pack Outeron | | Soil map units are labeled (as space allows) for map scale: 1:50,000 or larger. | | | |
| Saline Spot | | Date(s) aerial images were photographed: Mar 4, 2023— | | | |
| T Sandy Shot | | 2023 | | | |
| | | The orthophoto or other base map on which the soil lines w | | | |
| Severely Eroded Spot | | compiled and digitized probably differs from the backgroun imagery displayed on these maps. As a result, some minor | | | |
| Sinkhole | | shifting of map unit boundaries may be evident. | | | |
| Slide or Slip | | | | | |
| g Sodic Spot | | | | | |



Map Unit Legend

| Map Unit Symbol Map Unit Name | | Acres in AOI | Percent of AOI | | |
|-------------------------------|--|--------------|----------------|--|--|
| FAA | Fausse clay, 0 to 1 percent slopes, frequently flooded | 32.5 | 100.0% | | |
| Totals for Area of Interest | | 32.5 | 100.0% | | |



ATTACHMENT E DATA SHEETS



| U.S. Arm WETLAND DETERMINATION DATA See ERDC/EL TR-07-24; | OMB Control #: 071 Requirement Cont (Authority: AR 335 | 0-xxxx, Exp: Pending rol Symbol EXEMPT: i-15, paragraph 5-2a) | | | | |
|--|--|---|--------------------------|--|--|--|
| Project/Site: <u>Terrebonne Parish Port Com</u> Applicant/Owner: <u>Terrebonne Port Com</u> | mission - West Bank Site | City/County: Terrebonne Pa | arishSar State:LASar | npling Date: <u>12/19/2023</u> npling Point: <u>1</u> | | |
| Investigator(s): Ronnie Duke, Gavin Pitre | Se | ection, Township, Range: Sec | tion 12, T17S-R17E | | | |
| Landform (hillside, terrace, etc.): Field | Loca | al relief (concave, convex, none | e): None | Slope (%): 0 | | |
| Subregion (LRR or MLRA): LRR O | Lat: 29 33' 47.13" | Long: -90 4 | 1' 43.33" | Datum: NAD83 | | |
| Soil Map Unit Name: Fausse Clay, 0 to 1 p | ercent slopes, frequently floo | ded | NWI classification: | PSS1 Ch | | |
| Are climatic / hydrologic conditions on the s | ite typical for this time of year | ·? Yes X M | lo (lf no, expla | in in Remarks.) | | |
| Are Vegetation Soil or Hydr | cology significantly dist | urbed? Are "Normal Circu | nstances" present? | Ves X No | | |
| Are Vegetation, con, or Hydr | ology significantly dist | motio? (If needed, evaluin | | | | |
| | ologynaturally probler | natic? (if needed, explain | any answers in Reman | (S.) | | |
| SUMMARY OF FINDINGS – Attac | h site map showing sa | ampling point locations | , transects, impor | tant features, etc. | | |
| Hydrophytic Vegetation Present? | Yes No X | Is the Sampled Area | | | | |
| Hydric Soil Present? | Yes X No | within a Wetland? | Yes No | <u>X</u> | | |
| Wetland Hydrology Present? | Yes No X | | | | | |
| Area has been experiencing drought. | | | | | | |
| HYDROLOGY | | | | | | |
| Wetland Hydrology Indicators: | | Sec | condary Indicators (mini | mum of two required) | | |
| Primary Indicators (minimum of one is requ | uired; check all that apply) | | Surface Soil Cracks (B | 6) | | |
| Surface Water (A1) | Aquatic Fauna (B13) | | Sparsely Vegetated Co | oncave Surface (B8) | | |
| High Water Table (A2) | Marl Deposits (B15) (L | _RR U) | Drainage Patterns (B1) | 0) | | |
| Saturation (A3) Water Marks (B1) | | r (CT) | _Moss Trim Lines (B16) | | | |
| Sediment Deposits (B2) | Presence of Reduced | Iron (C4) | Cravfish Burrows (C8) | | | |
| Drift Deposits (B3) | Recent Iron Reduction | in Tilled Soils (C6) | Saturation Visible on A | erial Imagery (C9) | | |
| Algal Mat or Crust (B4) | Thin Muck Surface (C | 7) | Geomorphic Position (D2) | | | |
| Iron Deposits (B5) | Other (Explain in Rem | arks) | Shallow Aquitard (D3) | | | |
| Inundation Visible on Aerial Imagery (E | 37) | | FAC-Neutral Test (D5) | | | |
| Water-Stained Leaves (B9) | | | Sphagnum Moss (D8) | (LRR T, U) | | |
| Field Observations: | | | | | | |
| Surface Water Present? Yes | No X Depth (inches | ;): | | | | |
| Water Table Present? Yes | No X Depth (inches | s): | | | | |
| Saturation Present? Yes | No X Depth (inches | S): Wetland Hydi | ology Present? | Yes <u>No X</u> | | |
| (Includes capillary fringe) | | nrovious inspections) if sucils | blar | | | |
| Describe Recorded Data (Stream gauge, in | ionitoring well, aenai priotos, | previous inspections), ir availa | Die. | | | |
| | | | | | | |
| Remarks: | | | | | | |
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Sampling Point: 1

| 1. | Tree Stratum (Plot size:) | Absolute Dominant Indicator % Cover Species? Status | Dominance Test worksheet: |
|---|---|--|---|
| 2. | <u> </u> | <u> </u> | Number of Dominant Species |
| 3. | 2. | | That Are OBL, FACW, or FAC: 0 (A) |
| 4. | 3. | | Total Number of Dominant |
| 5. | 4. | | Species Across All Strata: 1 (B) |
| 6. | 5. | | Percent of Dominant Species |
| Image: Stratum Image: | 6. | | That Are OBL, FACW, or FAC: 0.0% (A/B) |
| 50% of total cover: | | =Total Cover | Prevalence Index worksheet: |
| Saping Stratum (Plot size:) OBL species 0 x 1 = 0 1. | 50% of total cover: | 20% of total cover: | Total % Cover of: Multiply by: |
| 1. FACW species 0 x 2 = 0 2. FAC species 11 x 3 = 33 3. | Sapling Stratum (Plot size:) | | OBL species x 1 = |
| 2. FAC species 11 $x 3 = 33$ 3. FAC species 60 $x 4 = 240$ 4. | 1 | | FACW species 0 x 2 = 0 |
| 3. FACU species 60 $x 4 = 240$ 9. | 2 | | FAC species x 3 = 33 |
| 4. UPL species 1 $x 5 = 5$ 5. Colum Totals: 72 (A) 273 (B) 6. | 3 | | FACU species 60 x 4 = 240 |
| 5. | 4 | | UPL species x 5 = 5 |
| 6. | 5. | | Column Totals: 72 (A) 278 (B) |
| =Total Cover 50% of total cover: 20% of total cover: 1. Shrub Stratum (Plot size:) 1. 2. Dominance Test is >50% 3. | 6. | | Prevalence Index = B/A = 3.86 |
| 50% of total cover: 20% of total cover: | | =Total Cover | Hydrophytic Vegetation Indicators: |
| Shrub Stratum (Plot size:) | 50% of total cover: | 20% of total cover: | 1 - Rapid Test for Hydrophytic Vegetation |
| 1. | Shrub Stratum (Plot size:) | | 2 - Dominance Test is >50% |
| 2. | 1. | | 3 - Prevalence Index is ≤3.0 ¹ |
| 3. | 2. | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 4. | 3. | | |
| 5. | 4. | | |
| 6. | 5. | | ¹ Indicators of hydric soil and wetland hydrology must |
| Solve of total cover: | 6. | | be present, unless disturbed or problematic. |
| 50% of total cover: 20% of total cover: | | =Total Cover | Definitions of Five Vegetation Strata: |
| Herb Stratum (Plot size:30) approximately 20 ft (6 m) or more in height and 3 in. 1. Cynodon dactylon 60 Yes FACU 2. Paspalum urvillei 10 No FAC 3. Rumex crispus 1 No FAC 4. Symphyotrichum oolentangiense 1 No FAC 5. | 50% of total cover: | 20% of total cover: | Tree – Woody plants excluding woody vines |
| 1. Cynodon dactylon 60 Yes FACU (7.6 cm) or larger in diameter at breast height (DBH). 2. Paspalum unvillei 10 No FAC 3. Rumex crispus 1 No FAC 4. Symphyotrichum oolentangiense 1 No FAC 5. 1 No UPL Saping – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. 5. 1 No UPL Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. 7. | Herb Stratum (Plot size: 30) | | approximately 20 ft (6 m) or more in height and 3 in. |
| 2. Paspalum urvillei 10 No FAC Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. 3. Rumex crispus 1 No UPL 5. | 1. Cynodon dactylon | 60 Yes FACU | (7.6 cm) or larger in diameter at breast height (DBH). |
| 3. Rumex crispus 1 No FAC approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. 5. | 2. Paspalum urvillei | 10 No FAC | Sapling – Woody plants, excluding woody vines. |
| 4. Symphyotrichum oolentangiense 1 No UPL than 3 in. (7.6 cm) DBH. 5. | 3. Rumex crispus | 1 No FAC | approximately 20 ft (6 m) or more in height and less |
| 5. | 4. Symphyotrichum oolentangiense | 1 No UPL | than 3 in. (7.6 cm) DBH. |
| 6. | 5. | | Shrub - Woody Plants, excluding woody vines, |
| 7. | 6. | | approximately 3 to 20 ft (1 to 6 m) in height. |
| 8. | 7. | | Herb – All herbaceous (non-woody) plants including |
| 9. | 8. | | herbaceous vines, regardless of size, and woody |
| 10. | 9. | | plants, except woody vines, less than approximately 3 |
| 11. | 10. | | ft (1 m) in height. |
| 72 =Total Cover 50% of total cover: 36 20% of total cover: 15 Woody Vine Stratum (Plot size:) 1. | 11. | | Woody Vine – All woody vines, regardless of height. |
| 50% of total cover: 36 20% of total cover: 15 Woody Vine Stratum (Plot size:) . . 1. . . . 2. . . . 3. . . . 4. . . . | | 72 =Total Cover | |
| Woody Vine Stratum (Plot size:) 1. | 50% of total cover: 3 | 6 20% of total cover: 15 | |
| 1. | Woody Vine Stratum (Plot size:) | | |
| 2. 3. 4. | 1. | | |
| 3. | 2. | | |
| 4. | 3. | | |
| • | 4. | | |
| 5. | 5. | | |
| =Total Cover Hydrophytic | | =Total Cover | nyaropnytic Vegetation |
| 50% of total cover: 20% of total cover: Present? Yes No _X | 50% of total cover: | 20% of total cover: | Present? Yes No X |
| Remarks: (If observed, list morphological adaptations below.) | Remarks: (If observed, list morphological adaptatio | ns below.) | |

SOIL

| SOIL | | | | | | | | | Sar | npling Point: | 1 |
|------------------|---|--------------|----------------------------------|----------------|-------------------|------------------|-----------|--|--------------|---------------|-------------------------|
| Profile Des | cription: (Describe t | o the dep | th needed to docu | iment th | e indica | tor or co | nfirm the | e absence o | f indicate | ors.) | |
| Depth | Matrix | - | Redo | x Featur | es | | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Te | exture | | Rema | rks |
| 0-16 | 10YR 3/2 | 90 | 10YR 5/8 | 10 | С | M | Loam | y/Clayey | Prom | inent redox | concentrations |
| | | <u> </u> | | | | | | | | | |
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| | | | | | | | , | | | | |
| 1 Type: C=C | oncontration D-Don | otion PM- | -Poducod Matrix M | IS-Mack | rod Sond | Graine | | ² Location: | DI – Doro | Lipipa M-M | otriv |
| Hydric Soil | Indicators: (Applica | ble to all I | RRs unless othe | rwise no | oted.) | Grains. | | Indicators | for Probl | ematic Hvd | ric Soils ^{3.} |
| Histosol | | | Thin Dark S | urface (S | (I RR | S. T. U) | | 1 cm M | uck (A9) | (I RR O) | |
| Histic F | ninedon (A2) | | Barrier Islan | ds 1 cm | Muck (S | 12) | | 2 cm M | uck (A10 | | |
| Black H | istic (A3) | | (MI RA 153B 153D) | | | | | Coast Prairie Redox (A16) | | | |
| Hydroge | en Sulfide (A4) | | Loamy Mucky Mineral (F1) (LRR O) | | | | | (outside MLRA 150A) | | | |
| Stratifie | d Layers (A5) | | Loamy Gleyed Matrix (F2) | | | | | Reduced Vertic (F18) | | | |
| Organic | Bodies (A6) (LRR P, | T, U) | Depleted Matrix (F3) | | | | | (outside MLRA 150A, 150B) | | | |
| 5 cm M | ucky Mineral (A7) (LR | R P, T, U) | X Redox Dark Surface (F6) | | | | | Piedmont Floodplain Soils (F19) (LRR P, T) | | | |
| Muck P | resence (A8) (LRR U) | | Depleted Dark Surface (F7) | | | | | Anomalous Bright Floodplain Soils (F20) | | | |
| 1 cm M | uck (A9) (LRR P, T) | | Redox Depr | essions (| (F8) | | | (MLR | A 153B) | | |
| Deplete | d Below Dark Surface | (A11) | Marl (F10) (I | LRR U) | | | | Red Pa | rent Mate | erial (F21) | |
| Thick D | ark Surface (A12) | | Depleted Oc | hric (F1 | 1) (MLRA | 151) | | Very Sł | nallow Da | rk Surface (F | -22) |
| Coast P | Prairie Redox (A16) (M | LRA 150A |) Iron-Mangar | nese Mas | sses (F12 | 2) (LRR O |), P, T) | (outs | ide MLR. | A 138, 152A | in FL, 154) |
| Sandy M | Mucky Mineral (S1) (L | RR O, S) | Umbric Surf | ace (F13 |) (LRR P | , T, U) | | Barrier | Islands L | ow Chroma I | Matrix (TS7) |
| Sandy (| Gleyed Matrix (S4) | | Delta Ochric | (F17) (| ILRA 15 | 1) | | (MLR | A 153B, | 153D) | |
| Sandy F | Redox (S5) | | Reduced Ve | rtic (F18 |) (MLRA | 150A, 15 | 0B) | Other (| Explain in | Remarks) | |
| Stripped | d Matrix (S6) | | Piedmont Fl | oodplain | Soils (F1 | 9) (MLR | A 149A) | | | | |
| Dark Su | urface (S7) (LRR P, S, | , T, U) | Anomalous | Bright Fl | oodplain | Soils (F2 | 0) | | | | |
| Polyvalu | ue Below Surface (S8) |) | (MLRA 14 | 9A, 153 | C, 153D) | | | ³ Indicat | ors of hyd | drophytic veg | etation and |
| (LRR | (LRR S, T, U) Very Shallow Dark Surface (F22) | | | | 22) | | wetla | and hydro | logy must be | e present, | |
| | | | (MLRA 13 | 8, 152A | in FL, 15 | 54) | | unles | ss disturb | ed or problei | matic. |
| Restrictive | Layer (if observed): | | | | | | | | | | |
| Type: | | | | | | | | | | | |
| Depth (i | inches): | | | | | | Hydri | c Soil Prese | ent? | Yes X | No |
| Remarks: | | | | | | | | | | | |
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| U.S. Army WETLAND DETERMINATION DATA S See ERDC/EL TR-07-24; th | OMB Control #: 0710-: Requirement Control (Authority: AR 335-1; | xxxx, Exp: Pending Symbol EXEMPT: 5, paragraph 5-2a) | | | | |
|---|---|--|--|------------------------------|--|--|
| Project/Site: Terrebonne Parish Port Commi | ssion-West Bank Site | City/County: Terrebonne Pa | arishSamp | ling Date: <u>12/19/2023</u> | | |
| Applicant/Owner: Terrebonne Port Comm | ission | | State: LA Samp | ling Point: 2 | | |
| Investigator(s): Ronnie Duke, Gavin Pitre | Secti | ion, Township, Range: Sec | tion 12, T17S-R17E | | | |
| Landform (hillside, terrace, etc.): Field | Local re | elief (concave, convex, none | e): Convex S | Slope (%): 1 | | |
| Subregion (LRR or MLRA): LRR O | Lat: 29 33' 44.89" | Long: -90 4 | 1' 52.29" | Datum: NAD83 | | |
| Soil Map Unit Name: Fausse Clay, 0 to 1 per | cent slopes. frequently flooder | d | NWI classification: P | SS1 Ch | | |
| Are climatic / hydrologic conditions on the site | typical for this time of year? | Yes X M | | in Remarks) | | |
| Are Vegetation Soil or Hydrole | significantly disturb | ed? Are "Normal Circu | nstances" present? | Ves X No | | |
| Are Vegetation, coll, or Hydrold | agyadjunction | tic? (If nooded evolution | any answers in Romarks | \ \ | | |
| | | iic? (ii needed, explain | any answers in Remarks. | .) | | |
| SUMMARY OF FINDINGS – Attach | site map showing sam | pling point locations | , transects, importa | int features, etc. | | |
| Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? | /esNoXI /esX_No /esNo_X | Is the Sampled Area within a Wetland? | Yes No | <u>×</u> | | |
| Area has been experiencing drought. | | | | | | |
| HYDROLOGY | | | | | | |
| Wetland Hydrology Indicators: | | Sec | condary Indicators (minimu | um of two required) | | |
| Primary Indicators (minimum of one is require | ed; check all that apply) | | Surface Soil Cracks (B6) | | | |
| Surface Water (A1) | Aquatic Fauna (B13) | | Sparsely Vegetated Cond | cave Surface (B8) | | |
| High Water Table (A2) | Marl Deposits (B15) (LRF | R U) | Drainage Patterns (B10) | | | |
| Saturation (A3) | Hydrogen Sulfide Odor (C | C1) | Moss Trim Lines (B16) | (00) | | |
| Water Marks (B1) | OXIGIZED Rhizospheres of Presence of Reduced Iro | n Living Roots (C3) | Cravitish Burrows (C8) | (02) | | |
| Drift Deposits (B3) | Recent Iron Reduction in | Tilled Soils (C6) | Clayiish Burrows (Co) Saturation Visible on Aerial Imagery (C9) | | | |
| Algal Mat or Crust (B4) | Thin Muck Surface (C7) | | Geomorphic Position (D2) | | | |
| Iron Deposits (B5) | Other (Explain in Remark | s) | Shallow Aquitard (D3) | | | |
| Inundation Visible on Aerial Imagery (B7) | \ | | FAC-Neutral Test (D5) | | | |
| Water-Stained Leaves (B9) | | | Sphagnum Moss (D8) (L | RR T, U) | | |
| Field Observations: | | | | | | |
| Surface Water Present? Yes | No X Depth (inches): | | | | | |
| Water Table Present? Yes | No X Depth (inches): | | | | | |
| Saturation Present? Yes | No X Depth (inches): | Wetland Hydr | ology Present? | Yes <u>No X</u> | | |
| (includes capillary fringe) | | vious inspections) if availa | hle: | | | |
| | intoling well, dendi photos, pre | | | | | |
| | | | | | | |
| Remarks: | | | | | | |
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Sampling Point: 2

| Tree Stratum (Plot size:) | Absolute Dominant Indicator % Cover Species? Status | Dominance Test worksheet: |
|--|--|---|
| 1. | | Number of Dominant Species |
| 2. | | That Are OBL, FACW, or FAC: 0 (A) |
| 3. | | Total Number of Dominant |
| 4. | | Species Across All Strata: 1 (B) |
| 5. | | Percent of Dominant Species |
| 6. | | That Are OBL, FACW, or FAC: 0.0% (A/B) |
| | =Total Cover | Prevalence Index worksheet: |
| 50% of total cover: | 20% of total cover: | Total % Cover of: Multiply by: |
| Sapling Stratum (Plot size:) | | OBL species 0 x 1 = 0 |
| 1. | | FACW species 0 $x 2 = 0$ |
| 2. | | FAC species $10 \times 3 = 30$ |
| 3. | | FACU species 80 x 4 = 320 |
| 4. | | UPL species 1 x 5 = 5 |
| 5. | | Column Totals: 91 (A) 355 (B) |
| 6. | | Prevalence Index = $B/A = 3.90$ |
| | =Total Cover | Hydrophytic Vegetation Indicators: |
| 50% of total cover: | 20% of total cover: | 1 - Rapid Test for Hydrophytic Vegetation |
| Shrub Stratum (Plot size:) | | 2 - Dominance Test is >50% |
| 1. | | 3 - Prevalence Index is ≤3.0 ¹ |
| 2 | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 3 | | |
| 4 | | |
| 5 | | 1 |
| 5 | | Indicators of hydric soil and wetland hydrology must |
| | -Total Cover | Definitions of Five Vegetation Strata: |
| 50% of total cover: | 20% of total cover: | |
| Herb Stratum (Plot size: 30) | | approximately 20 ft (6 m) or more in height and 3 in. |
| 1 Ovnodon dactulon | 80 Ves FACIL | (7.6 cm) or larger in diameter at breast height (DBH). |
| 2 Paspalum unvillai | | |
| 3 Symphyotrichum colentangianse | | approximately 20 ft (6 m) or more in height and less |
| | | than 3 in. (7.6 cm) DBH. |
| | | Shruh - Woody Plants, oveluding woody vines |
| 6 | | approximately 3 to 20 ft (1 to 6 m) in height. |
| 7. | | Harb All berbasseus (non woods) plants including |
| 8. | | herbaceous vines, regardless of size, and woody |
| 9. | | plants, except woody vines, less than approximately 3 |
| 10. | | ft (1 m) in height. |
| 11. | | Woody Vine – All woody vines, regardless of height. |
| | 91 =Total Cover | |
| 50% of total cover: 4 | 6 20% of total cover: 19 | |
| Woody Vine Stratum (Plot size: | | |
| <u> </u> | | |
| 2 | | |
| 3 | | |
| 4 | | |
| | | |
| · | -Total Cover | Hydrophytic |
| 50% of total cover: | 20% of total cover: | vegetation Present? Yes No X |
| Remarks: (If observed, list morphological adaptation | ns below.) | · |
| | | |

| SOIL | | | | | | | | Sa | ampling Point: | 2 |
|------------------------|--------------------------------|----------------|---------------------|---|-------------------|------------------|-------------------|--|------------------|----------------------|
| Profile Desc | cription: (Describe t | to the dept | h needed to docr | ument th | ne indica | tor or co | nfirm the abse | nce of indica | tors.) | |
| Depth | Matrix | | Rede | ox Featur | res | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | | Remarks | S |
| 0-16 | 10YR 4/1 | 90 | 10YR 5/8 | . 10 | C | M | Loamy/Clay | ey Pro | minent redox co | ncentrations |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | <u> </u> | | | | | | | | |
| ¹ Type: C=C | oncentration, D=Depl | letion, RM= | Reduced Matrix, N | √S=Masł | ked Sand | Grains. | ² Loca | ation: PL=Pore | e Lining, M=Matr | rix. |
| Hydric Soil | Indicators: (Applica | ble to all L | RRs, unless othe | erwise no | oted.) | | Indic | ators for Prob | olematic Hydric | Soils ³ : |
| Histosol | (A1) | | Thin Dark S | urface (S | 39) (LRR | S, T, U) | 1 | cm Muck (A9 |) (LRR O) | |
| Histic Er | pipedon (A2) | | Barrier Islan | ids 1 cm | Muck (S | 12) | 2 | 2 cm Muck (A10) (LRR S) | | |
| Black Hi | istic (A3) | | (MLRA 15 | — (MLRA 153B, 153D) | | | | Coast Prairie Redox (A16) | | |
| Hydroge | en Sulfide (A4) | | Loamy Muc | Loamy Mucky Mineral (F1) (LRR O) | | | | (outside MLRA 150A) | | |
| Stratifier | d Layers (A5) | | Loamy Gley | Loamy Gleyed Matrix (F2) | | | | Reduced Vertic (F18) | | |
| Organic | Bodies (A6) (LRR P, | , T, U) | X Depleted Ma | X Depleted Matrix (F3) | | | | (outside MLRA 150A, 150B) | | |
| 5 cm Mı | ucky Mineral (A7) (LR | R P, T, U) | Redox Dark | Redox Dark Surface (F6) | | | | Piedmont Floodplain Soils (F19) (LRR P, T) | | |
| Muck Pr | resence (A8) (LRR U) |) | Depleted Da | Depleted Dark Surface (F7) | | | | Anomalous Bright Floodplain Soils (F20) | | |
| 1 cm Mı | uck (A9) (LRR P, T) | | Redox Depr | Redox Depressions (F8) | | | | (MLRA 153B) | | |
| Depleter | d Below Dark Surface | ∋ (A11) | Marl (F10) (| Marl (F10) (LRR U) | | | | Red Parent Material (F21) | | |
| Thick D; | ark Surface (A12) | | Depleted Or | Depleted Ochric (F11) (MLRA 151) | | | | Very Shallow Dark Surface (F22) | | |
| Coast P | rairie Redox (A16) (M | ILRA 150A) |) Iron-Mangar | nese Mar | sses (F12 | 2) (LRR C |), P, T) | Γ) (outside MLRA 138, 152A in FL, 154) | | |
| Sandy N | /ucky Mineral (S1) (L ' | .RR O, S) | Umbric Surf | Umbric Surface (F13) (LRR P, T, U) | | | | Barrier Islands Low Chroma Matrix (TS7) | | |
| Sandy C | Gleyed Matrix (S4) | | Delta Ochric | Delta Ochric (F17) (MLRA 151) | | | | (MLRA 153B, 153D) | | |
| Sandy F | Redox (S5) | | Reduced Ve | Reduced Vertic (F18) (MLRA 150A, 150B) Othe | | | | | in Remarks) | |
| Stripped | Matrix (S6) | | Piedmont F | loodplain | Soils (F | 19) (MLR | A 149A) | · | | |
| Dark Su | urface (S7) (LRR P, S | , T, U) | Anomalous | Bright Fl | oodplain | Soils (F2 | .0) | | | |
| Polyvalu | ue Below Surface (S8) | ,) | (MLRA 14 | 49A, 153 | C, 153D) | , | 3 | Indicators of h | ydrophytic veget | tation and |
| (LRR | S, T, U) | | Very Shallo | Very Shallow Dark Surface (F22) | | | | wetland hydrology must be present, | | |
| - | ••• | | (MLRA 1: | 38, 152A | in FL, 1 | 54) | | unless distur | bed or problema | atic. |
| Restrictive | Layer (if observed): | | | | | | | | | |
| Type: | | | | | | | | | | |
| Depth (ir | nches): | | <u> </u> | | | | Hydric Soil | Present? | Yes X | No |
| Remarks: | | | | | | | | | | |
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| U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Pla See ERDC/EL TR-07-24; the proponent agency is CECW-CO-F | in Region (Authority: AR 335-15, paragraph 5-2a) |
|---|---|
| Project/Site: Terrebonne Parish Port Commission-West Bank Site City/County: T | errebonne Parish Sampling Date: 12/19/2023 |
| Applicant/Owner: Terrebonne Port Commission | State: LA Sampling Point: 3 |
| Investigator(s): Ronnie Duke, Gavin Pitre Section, Township, | Range: Section 12, T17S-R17E |
| Landform (hillside, terrace, etc.): Field Local relief (concave, | convex. none): concave Slope (%): 1 |
| Subregion (I RR or MI RA): LRR O Lat: 29.33' 43.22 | Long: -90 41' 46.80" Datum: NAD83 |
| Soil Map Unit Name: Fausse Clay, 0 to 1 percent slopes, frequently flooded | NWI classification: PSS1 Ch |
| Are climatic / hydrologic conditions on the site typical for this time of year? | X No (If no explain in Remarks) |
| Are Vegetation Soil or Hydrology significantly disturbed? Are * | |
| Are Vegetation, Soli, or Hydrologysignificantly disturbed? Are i | |
| Are vegetation, or Hydrologynaturally problematic? (if new | eded, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing sampling point | locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes No X | d Area and? Yes No X |
| Remarks: | |
| Area has been experiencing drought. | |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1) Aquatic Fauna (B13) | Sparsely Vegetated Concave Surface (B8) |
| High Water Table (A2) Marl Deposits (B15) (LRR U) | Drainage Patterns (B10) |
| Saturation (A3) Hydrogen Sulfide Odor (C1) | Moss Trim Lines (B16) |
| Sediment Deposits (B2) Presence of Reduced Iron (C4) | (C3) Div-Season Water Table (C2) Cravfish Burrows (C8) |
| Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C | 6) Saturation Visible on Aerial Imagery (C9) |
| Algal Mat or Crust (B4) Thin Muck Surface (C7) | Geomorphic Position (D2) |
| Iron Deposits (B5) Other (Explain in Remarks) | Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (B7) | FAC-Neutral Test (D5) |
| Water-Stained Leaves (B9) | Sphagnum Moss (D8) (LRR T, U) |
| Field Observations: | |
| Surface Water Present? Yes No X Depth (inches): | |
| Water Table Present? Yes No X Depth (inches): | Vetland Underlage Present? Ves No. V |
| Saturation Present? Yes No X Depth (incres): V | vetland Hydrology Present? fes No _X |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection | ons), if available: |
| | |
| | |
| Remarks: | |
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Sampling Point: 3

| Tree Stratum (Plot size:) | Absolute Dominant Indicato % Cover Species? Status | r Dominance Test worksheet: |
|--|---|---|
| 1. | | Number of Dominant Species |
| 2. | | That Are OBL, FACW, or FAC: 0 (A) |
| 3 | | Total Number of Dominant |
| 4 | | Species Across All Strata: 1(B) |
| 5 | | Percent of Dominant Species |
| 6 | | That Are OBL, FACW, or FAC:0.0% (A/B) |
| | =Total Cover | Prevalence Index worksheet: |
| 50% of total cover: | 20% of total cover: | Total % Cover of:Multiply by: |
| Sapling Stratum (Plot size:) | | OBL species x 1 =0 |
| 1 | | FACW species 0 x 2 = 0 |
| 2 | | FAC species 10 x 3 = 30 |
| 3 | | FACU species 40 x 4 = 160 |
| 4 | | UPL species 1 x 5 = 5 |
| 5 | | Column Totals: 51 (A) 195 (B) |
| 6 | | Prevalence Index = B/A = 3.82 |
| | =Total Cover | Hydrophytic Vegetation Indicators: |
| 50% of total cover: | 20% of total cover: | 1 - Rapid Test for Hydrophytic Vegetation |
| Shrub Stratum (Plot size:) | | 2 - Dominance Test is >50% |
| 1. | | 3 - Prevalence Index is ≤3.0 ¹ |
| 2. | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 3. | | - <u> </u> |
| 4. | | - |
| 5. | | — |
| 6 | | be present, unless disturbed or problematic. |
| | =Total Cover | Definitions of Five Vegetation Strata: |
| 50% of total cover: | 20% of total cover: | |
| Herb Stratum (Plot size: 30) | | approximately 20 ft (6 m) or more in height and 3 in. |
| 1 Ovnodon dectylon | | (7.6 cm) or larger in diameter at breast height (DBH). |
| 2 Pospolum unvilloi | <u>10</u> No EAC | |
| 3 Symphyotrichum colentangiense | | Saping – woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less |
| 4. | | than 3 in. (7.6 cm) DBH. |
| 5. | | Shrub - Woody Plants, excluding woody vines. |
| 6. | | approximately 3 to 20 ft (1 to 6 m) in height. |
| 7. | | Herb – All herbaceous (non-woody) plants, including |
| 8. | | herbaceous vines, regardless of size, and woody |
| 9. | | plants, except woody vines, less than approximately 3 |
| 10. | | ft (1 m) in height. |
| 11. | | Woody Vine – All woody vines, regardless of height. |
| | 51 =Total Cover | - |
| 50% of total cover: 2 | 6 20% of total cover: 11 | |
| Woody Vine Stratum (Plot size: | <u> </u> | - |
| 1 | | |
| 2 | | - |
| 2 | | - |
| J | | - |
| 4 | | - |
| Э | | - Hydrophytic |
| | = I otal Cover | Vegetation |
| 50% of total cover: | 20% of total cover: | Present? Yes No _X |
| Remarks: (If observed, list morphological adaptation | ns below.) | |

SOIL

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) | | | | | | | | | | |
|---|-----------------------------|---------------------------|----------------------------|----------------------------------|-----------------|---|------------------------------------|--------------------------|---|--|
| Depth | Matrix | | Redo | ox Featur | res | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type' | Loc ² | Te | exture | Remarks | |
| 0-2 | 7.5YR 3/3 | 100 | | | | | Loam | y/Clayey | | |
| 2-11 | 10YR 4/2 | 90 | 10YR 5/8 | 10 | С | М | Loam | y/Clayey | Prominent redox concentrations | |
| 11-16 | N 5/ | 95 | 10YR 5/6 | 5 | С | PL/M | Loam | y/Clayey | Prominent redox concentrations | |
| | | | | | | | | | | |
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| | | · | | | | | | | | |
| <u> </u> | | <u> </u> | | | | | | | | |
| ¹ Type: C=Co | ncentration, D=Depl | etion, RM= | Reduced Matrix, N | IS=Mask | ked Sand | Grains. | | ² Location: I | PL=Pore Lining, M=Matrix. | |
| Hydric Soil I | ndicators: (Applica | ble to all I | LRRs, unless othe | erwise n | oted.) | | | Indicators | for Problematic Hydric Soils ³ : | |
| Histosol (| (A1) | | Thin Dark S | urface (S | 69) (LRR | S, T, U) | | 1 cm M | luck (A9) (LRR O) | |
| Histic Ep | ipedon (A2) | | Barrier Islan | ds 1 cm | Muck (S | 12) | | 2 cm M | luck (A10) (LRR S) | |
| Black His | stic (A3) | | (MLRA 15 | 53B, 153 | D) | | | Coast F | Prairie Redox (A16) | |
| Hydroger | Hydrogen Sulfide (A4) | | | Loamy Mucky Mineral (F1) (LRR O) | | | | (outs | ide MLRA 150A) | |
| Stratified | Layers (A5) | | X Loamy Gleyed Matrix (F2) | | | | Reduced Vertic (F18) | | | |
| Organic I | Bodies (A6) (LRR P, | X Depleted Ma | atrix (F3) | | | (outside MLRA 150A, 150B) | | | | |
| 5 cm Mu | cky Mineral (A7) (LR | Redox Dark | Surface | (F6) | | Piedmont Floodplain Soils (F19) (LRR P, | | | | |
| Muck Pre | esence (A8) (LRR U) |) | Depleted Da | ark Surfa | ce (F7) | | | Anoma | lous Bright Floodplain Soils (F20) | |
| 1 cm Mu | ck (A9) (LRR P, T) | | Redox Depr | essions | (F8) | | | (MLR | RA 153B) | |
| Depleted | Below Dark Surface | Marl (F10) (LRR U) | | | | | Red Pa | arent Material (F21) | | |
| Thick Da | rk Surface (A12) | | Depleted Oc | chric (F1 | 1) (MLRA | A 151) | | Very Sł | hallow Dark Surface (F22) | |
| Coast Pra | airie Redox (A16) (M | ILRA 150A |) Iron-Mangar | nese Mas | sses (F12 | 2) (LRR (|), P, T) | (outs | ide MLRA 138, 152A in FL, 154) | |
| Sandy M | ucky Mineral (S1) (L | RR O, S) | Umbric Surf | ace (F13 | B) (LRR F | , T, U) | | Barrier | Islands Low Chroma Matrix (TS7) | |
| Sandy G | leved Matrix (S4) | | Delta Ochrid | (F17) (I | / N MLRA 15 | 1) | | (MLR | (A 153B. 153D) | |
| Sandy Re | edox (S5) | | Reduced Ve | ertic (F18 |) (MLRA | , 150A. 15 | 50B) | Other (| Explain in Remarks) | |
| Stripped | Matrix (S6) | | Piedmont Fl | oodplain | Soils (F | 19) (MLR | A 149A) | | | |
| Dark Sur | face (S7) (LRR P. S | . T. U) | Anomalous | Bright Fl | oodplain | Soils (F2 | 0) | | | |
| Polyvalue | Below Surface (S8 |)) | (MI RA 14 | I9A 153 | C. 153D) | |) | ³ Indicat | tors of hydrophytic vegetation and | |
| | S. T. U) |) | Very Shallov | w Dark S | urface (F | 22) | wetland bydrology must be present | | | |
| | , 1, 0) | | (MI RA 13 | 8 152A | in Fl 1 | 54) | weitand hydrology must be present, | | | |
| Restrictive I | aver (if observed). | | | , 102A | | ر د م | | unies | | |
| Туре: | | | | | | | | | | |
| Depth (in | ches): | | | | | | Hydri | c Soil Prese | ent? Yes <u>X</u> No | |
| Remarks: | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R | OMB Control #: 0710-xxxx, Exp: Pending Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a) |
|--|--|
| Project/Site: Terrebonne Parish Port Commission-West Bank Site City/County: Terrebonne P | arish Sampling Date: 12/19/2023 |
| Applicant/Owner: Terrebonne Port Commission | State: LA Sampling Point: 4 |
| Investigator(s): Ronnie Duke, Gavin Pitre Section, Township, Range: Se | |
| Landform (hillside, terrace, etc.): Field Local relief (concave, convex, none | e): Convex Slope (%): 1 |
| Subregion (LRR or MLRA): LRR O Lat: 29 33' 42.65" Long: -90 4 | 1' 51.42" Datum: NAD83 |
| Soil Map Unit Name: Fausse Clay, 0 to 1 percent slopes, frequently flooded | NWI classification: PSS1 Ch |
| Are climatic / hydrologic conditions on the site typical for this time of year? Yes X | No (If no explain in Remarks) |
| Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circu | mstances" present? Ves X No |
| Are Vegetation Soil or Hydrology naturally problematic? (If needed explain | any answers in Remarks) |
| | |
| SUMMARY OF FINDINGS – Attach site map showing sampling point locations | s, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes No X Is the Sampled Area | |
| Hydric Soil Present? Yes No X within a Wetland? | Yes NoX |
| Wetland Hydrology Present? Yes No X | |
| Area has been experiencing drought. | |
| HYDROLOGY | |
| Wetland Hydrology Indicators: See Primary Indicators (minimum of one is required; check all that apply) | condary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum Moss (D8) (LRR T, U) |
| Saturation Present? Yes No X Depth (inches): Wetland Hyd | rology Present? Yes <u>No X</u> |
| (Includes capillary fringe) | ble. |
| Describe recorded Data (stream gauge, monitoring weil, aenai photos, previous inspections), if availa | IVIE. |
| | |
| Remarks: | |

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Sampling Point: 4

| Tree Stratum (Plot size:) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|--|---------------------|----------------------|---------------------|--|
| 1. | | | | Number of Dominant Species |
| 2. | | | | That Are OBL, FACW, or FAC: 0 (A) |
| 3 | | | | Total Number of Dominant |
| 4 | | | | Species Across All Strata: 1 (B) |
| 5. | | | | Percent of Dominant Species |
| 6 | <u> </u> | Tatal Osuar | | That Are OBL, FACW, or FAC: 0.0% (A/B) |
| | | = I otal Cover | | Prevalence Index worksheet: |
| 50% of total cover: | 20% | of total cover: | | |
| <u>Sapling Stratum</u> (Plot size:) | | | | $OBL species 0 x^{2} = 0$ |
| · | | | | FAC species $0 \times 2 = 0$ |
| 2 | | | | FAC species 3 $x_3 = 15$ |
| 3 | | | | $\frac{1}{100} \text{ species} = \frac{1}{100} \text{ species} = \frac{1}$ |
| T | | | | Column Totals: $\frac{99}{(A)}$ $\frac{(A)}{392}$ (B) |
| | | | | $\frac{\text{Prevalence Index} - B/A - 3.96}{\text{Prevalence Index} - B/A - 3.96}$ |
| 0. | | -Total Cover | | Hydrophytic Vegetation Indicators: |
| 50% of total cover | 20% | of total cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Shruh Stratum (Plot size: | 2070 | | | 2 - Dominance Test is >50% |
| 1 | | | | $3 - $ Prevalence Index is $\leq 3.0^{1}$ |
| 2 | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | Indicators of hydric soil and wetland hydrology must |
| · | | =Total Cover | | Definitions of Five Vegetation Strata: |
| 50% of total cover | 20% | of total cover: | | Tree Weedy plants, excluding weedy vines |
| Herb Stratum (Plot size: 30) | | | | approximately 20 ft (6 m) or more in height and 3 in. |
| 1. Cynodon dactylon | 70 | Yes | FACU | (7.6 cm) or larger in diameter at breast height (DBH). |
| 2. Paspalum urvillei | 5 | No | FAC | Sapling – Woody plants, excluding woody vines |
| 3. Symphyotrichum oolentangiense | 1 | No | UPL | approximately 20 ft (6 m) or more in height and less |
| 4. Solidago altissima | 15 | No | FACU | than 3 in. (7.6 cm) DBH. |
| 5. Rubus trivialis | 8 | No | FACU | Shrub - Woody Plants, excluding woody vines, |
| 6. | | | | approximately 3 to 20 ft (1 to 6 m) in height. |
| 7 | | | | Herb – All herbaceous (non-woody) plants, including |
| 8 | | | | herbaceous vines, regardless of size, and woody |
| 9 | | | | plants, except woody vines, less than approximately 3 |
| 10 | | | | rt (1 m) in height. |
| 11 | | | | Woody Vine – All woody vines, regardless of height. |
| | 99 | =Total Cover | | |
| 50% of total cover: 50 | 0 20% | of total cover: | 20 | |
| Woody Vine Stratum (Plot size:) | | | | |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | Hydrophytic |
| | : | =Total Cover | | Vegetation |
| 50% of total cover: | 20% | of total cover: | | Present? Yes No X |
| Remarks: (If observed, list morphological adaptation | ns below.) | | | |

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SOIL

| SOIL | | | | | | | | S | ampling Poir | ıt: <u>4</u> | 4 | |
|------------------------|-------------------------------|--------------|---------------------|----------------------|---|------------------------|---------------------------|---|---------------------------|--------------|--------|--|
| Profile Des | cription: (Describe t | o the dept | h needed to docu | ument th | ne indica | tor or co | nfirm the absenc | e of indica | ators.) | | | |
| Depth | Matrix | | Redo | ox Featur | res | | | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | | Rem | arks | | |
| 0-16 | 10YR 3/2 | 98 | 10YR 5/8 | 2 | <u> </u> | <u>M</u> | Loamy/Clayey | Pro | ominent redo | < concentra | ations | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | _ | | | | | | |
| ¹ Type: C=C | oncentration, D=Depl | etion, RM= | Reduced Matrix, N | IS=Mask | ked Sand | Grains. | ² Locatio | n: PL=Por | e Lining, M= | Matrix. | | |
| Histosol Histic E | (A1) pipedon (A2) | Die to all L | Thin Dark S | urface (S ds 1 cm | 51ed.) 59) (LRR Muck (S ⁻ | S, T, U) 12) | 1 cr 2 cr | n Muck (As n Muck (As | (LRR O) (LRR S) | aric Solis" | : | |
| Black H | istic (A3) | (MLRA 15 | 53B, 153 | D) | | Coa | Coast Prairie Redox (A16) | | | | | |
| Hydroge | en Sulfide (A4) | | Loamy Muc | ky Minera | al (F1) (L | RR O) | (o | (outside MLRA 150A) | | | | |
| Stratifie | d Layers (A5) | | Loamy Gley | ed Matrix | x (F2) | | Reduced Vertic (F18) | | | | | |
| Organic | Bodies (A6) (LRR P, | T, U) | Depleted Ma | atrix (F3) | | | (0 | (outside MLRA 150A, 150B) | | | | |
| 5 cm Mu | ucky Mineral (A7) (LR | R P, T, U) | Redox Dark | Surface | (F6) | | Piec | Piedmont Floodplain Soils (F19) (LRR P, | | | | |
| Muck Pr | resence (A8) (LRR U) | | Depleted Da | ark Surfa | ce (F7) | | And | Anomalous Bright Floodplain Soils (F20) | | | | |
| 1 cm Mu | uck (A9) (LRR P, T) | | Redox Depr | essions (| (F8) | | (MLRA 153B) | | | | | |
| Deplete | d Below Dark Surface | (A11) | Marl (F10) (| LRR U) | | | Rec | Parent Ma | arent Material (F21) | | | |
| Thick Da | ark Surface (A12) | | Depleted Oc | chric (F1 | 1) (MLRA | 151) | Ver | y Shallow [| nallow Dark Surface (F22) | | | |
| Coast P | rairie Redox (A16) (M | LRA 150A |) Iron-Mangar | nese Mas | sses (F12 | 2) (LRR O |), P, T) (a | (outside MLRA 138, 152A in FL, 154) | | | | |
| Sandy N | /lucky Mineral (S1) (L | RR O, S) | Umbric Surf | ace (F13 | B) (LRR P | , T, U) | Bar | Barrier Islands Low Chroma Matrix (TS7) | | | | |
| Sandy G | Bleyed Matrix (S4) | | Delta Ochric | : (F17) (| MLRA 15 | 1) | (MLRA 153B, 153D) | | | | | |
| Sandy F | Redox (S5) | | Reduced Ve | ertic (F18 |) (MLRA | 150A, 15 | 0B) Oth | er (Explain | in Remarks) | | | |
| Stripped | I Matrix (S6) | | Piedmont Fl | oodplain | Soils (F | 9) (MLR | A 149A) | | | | | |
| Dark Su | rface (S7) (LRR P, S, | , T, U) | Anomalous | Bright Flo | oodplain | Soils (F2 | D) | | | | | |
| Polyvalu | e Below Surface (S8) |) | (MLRA 14 | 9A, 153 | C, 153D) | | ³ Ind | icators of h | ydrophytic v | egetation a | nd | |
| (LRR | S, T, U) | | Very Shallov | w Dark S | urface (F | 22) | W | wetland hydrology must be present, | | | | |
| | | | (IVILRA 1. | 58, 152A | IN FL, 1: | 94) | u | niess distu | rbea or probi | ematic. | | |
| Restrictive Type: | Layer (if observed): | | | | | | | | | | | |
| Depth (i | nches): | | | | | | Hydric Soil Pr | esent? | Yes | No | Х | |
| Remarks: | | | | | | | | | | | | |
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| U.S. Army WETLAND DETERMINATION DATA S See ERDC/EL TR-07-24; t | / Corps of Engineers SHEET – Atlantic and Gu he proponent agency is | II f Coastal Plain Region CECW-CO-R | OMB Control #: 071 Requirement Contr (Authority: AR 335 | 0-xxxx, Exp: Pending rol Symbol EXEMPT: -15, paragraph 5-2a) | | | | |
|---|---|---|---|--|--|--|--|--|
| Project/Site: Terrebonne Parish Port Comn Applicant/Owner: Terrebonne Port Com | nission-West Bank Site | City/County: Terrebonne Pa | arishSan State: LA San | npling Date: <u>12/19/2023</u> npling Point: 5 | | | | |
| Investigator(s): Ronnie Duke, Gavin Pitre | Se | ction. Township. Range: Sec | | | | | | |
| Landform (billside terrace etc.): Edge of [| Jitch Local | relief (concave, convex, none | a): Concave | Slone (%)· 1 | | | | |
| | | | | | | | | |
| | Lat. 29 33 30.02 | Long30 + | 1 04.17 | | | | | |
| Soil Map Unit Name: Fausse Clay, U to 1 pe | ercent slopes, frequently flood | led | NVVI classification: | PSS1 Ch | | | | |
| Are climatic / hydrologic conditions on the sit | e typical for this time of year? | ? Yes <u>X</u> | lo (If no, explai | n in Remarks.) | | | | |
| Are Vegetation, Soil, or Hydro | ologysignificantly distu | Irbed? Are "Normal Circur | mstances" present? | Yes X No | | | | |
| Are Vegetation, Soil, or Hydro | ology naturally problem | natic? (If needed, explain | any answers in Remark | (S.) | | | | |
| SUMMARY OF FINDINGS – Attach | ا site map showing sa ا | mpling point locations | , transects, impor | tant features, etc. | | | | |
| Hydrophytic Vegetation Present? | Yes <u>No X</u> | Is the Sampled Area | | | | | | |
| Hydric Soil Present? | Yes No X | within a Wetland? | Yes No | <u>X</u> | | | | |
| Wetland Hydrology Present? | Yes X No | | | | | | | |
| Area has been experiencing drought. | | | | | | | | |
| HYDROLOGY | | | | | | | | |
| Wetland Hydrology Indicators: | · · · · · · · · · · · · · · · · · · · | Sec | condary Indicators (mini | mum of two required) | | | | |
| Primary Indicators (minimum of one is requi | ired; check all that apply) | | Surface Soil Cracks (B | 6) | | | | |
| Sufface Water (A1) | Aquatic Fauna (B15) | | Sparsely Vegetated Concave Surface (B8) | | | | | |
| Saturation (A3) | Hvdrogen Sulfide Odor | C1) Moss Trim Lines (B16) | | | | | | |
| Water Marks (B1) | Oxidized Rhizospheres | on Livina Roots (C3) | n Living Roots (C3) Drv-Season Water Table (C2) | | | | | |
| Sediment Deposits (B2) | Presence of Reduced I | ron (C4) | (C4) Crayfish Burrows (C8) | | | | | |
| Drift Deposits (B3) | Recent Iron Reduction | Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) | | | | | | |
| Algal Mat or Crust (B4) | Thin Muck Surface (C7 | Geomorphic Position (D2) | | | | | | |
| Iron Deposits (B5) | Other (Explain in Rema | rks) Shallow Aquitard (D3) | | | | | | |
| Inundation Visible on Aerial Imagery (B | 7) | FAC-Neutral Test (D5) | | | | | | |
| Water-Stained Leaves (B9) | | | Sphagnum Moss (D8) | (LRR T, U) | | | | |
| Field Observations: | | | | | | | | |
| Surface Water Present? Yes | No X Depth (inches) | | | | | | | |
| Saturation Present? Yes | No X Depth (inches) | Wetland Hydu | ology Present? | Ves X No | | | | |
| (includes capillary fringe) | | | ology i resent: | | | | | |
| Describe Recorded Data (stream gauge, m | onitoring well, aerial photos, r | previous inspections), if availa | ble: | | | | | |
| | | | | | | | | |
| Remarks: | | | | | | | | |
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| | | | | | | | | |

Sampling Point: 5

| Tree Stratum (Plot size: | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|--|---|----------------------|---------------------|--|
| 1. | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | opooloor | | Number of Deminant Species |
| 2. | | | | That Are OBL, FACW, or FAC:(A) |
| 3 | | | | Total Number of Dominant |
| 4 | | | | Species Across All Strata: 2 (B) |
| 5 | | | | Percent of Dominant Species |
| 6 | | | | That Are OBL, FACW, or FAC: 50.0% (A/B) |
| | : | =Total Cover | | Prevalence Index worksheet: |
| 50% of total cover: | 20% | of total cover: | | Total % Cover of: Multiply by: |
| Sapling Stratum (Plot size:) | | | | OBL species 0 x 1 = 0 |
| 1 | | | | FACW species 0 x 2 = 0 |
| 2 | | | | FAC species x 3 =63 |
| 3 | | | | FACU species 70 x 4 = 280 |
| 4 | | | | UPL species <u>1</u> x 5 = <u>5</u> |
| 5 | | | | Column Totals: 92 (A) 348 (B) |
| 6 | | | | Prevalence Index = B/A =3.78 |
| | : | =Total Cover | | Hydrophytic Vegetation Indicators: |
| 50% of total cover: | 20% | of total cover: | | 1 - Rapid Test for Hydrophytic Vegetation |
| Shrub Stratum (Plot size:) | | | | 2 - Dominance Test is >50% |
| 1 | | | | 3 - Prevalence Index is ≤3.0 ¹ |
| 2. | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 3. | | | | |
| 4 | | | | |
| 5 | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 6. | | | | be present, unless disturbed or problematic. |
| | | =Total Cover | | Definitions of Five Vegetation Strata: |
| 50% of total cover: | 20% | of total cover: | | Tree – Woody plants, excluding woody vines, |
| Herb Stratum (Plot size: 30) | | | | approximately 20 ft (6 m) or more in height and 3 in. |
| 1. Cynodon dactylon | 70 | Yes | FACU | (7.6 cm) or larger in diameter at breast height (DBH). |
| 2. Paspalum urvillei | 20 | Yes | FAC | Sapling – Woody plants, excluding woody vines, |
| 3. Rumex crispus | 1 | No | FAC | approximately 20 ft (6 m) or more in height and less |
| 4. Symphyotrichum oolentangiense | 1 | No | UPL | than 3 in. (7.6 cm) DBH. |
| 5 | | | | Shrub - Woody Plants, excluding woody vines, |
| 6 | | | | approximately 3 to 20 ft (1 to 6 m) in height. |
| 7 | | | | Herb – All herbaceous (non-woody) plants, including |
| 8 | | | | herbaceous vines, regardless of size, and woody |
| 9 | | | | plants, except woody vines, less than approximately 3 ft (1 m) in height |
| 10 | | | | |
| 11 | | | | Woody Vine – All woody vines, regardless of height. |
| | 92 | =Total Cover | | |
| 50% of total cover: 4 | 6 20% | of total cover: | 19 | |
| Woody Vine Stratum (Plot size:) | | | | |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | Hydrophytic |
| | : | =Total Cover | | Vegetation |
| 50% of total cover: | 20% | of total cover: | | Present? Yes No X |
| Remarks: (If observed, list morphological adaptation | ns below.) | | | |

SOIL

| SOIL | | | | | | | | Sampling Point | t: <u>5</u> | | | |
|-------------------------|-------------------------------|--------------|-------------------|----------------|-------------------|------------------|--|----------------------------|---------------------------|--|--|--|
| Profile Desc | ription: (Describe te | o the dept | h needed to docu | ument th | e indica | tor or co | nfirm the absence of | indicators.) | | | | |
| Depth | Matrix | | Redo | x Featur | es | | | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Rem | arks | | | |
| 0-3 | 10YR 3/2 | 100 | | | | | | | | | | |
| 3-16 | 10YR 3/2 | 99 | 10YR 5/8 | 1 | <u> </u> | <u>M</u> | Loamy/Clayey | Prominent redox | concentrations | | | |
| | | | | _ | | _ | | | | | | |
| | | | | | | _ | | | | | | |
| ¹ Type: C=Co | oncentration, D=Deple | etion, RM= | Reduced Matrix, M | 1S=Mask | ked Sand | Grains. | ² Location: Pl | L=Pore Lining, M=N | Aatrix. | | | |
| Hydric Soil | Indicators: (Applicat | ole to all L | RRs, unless othe | rwise n | oted.) | | Indicators for | or Problematic Hyd | dric Soils ³ : | | | |
| Histosol | (A1) | | Thin Dark S | urface (S | 9) (LRR | S, T, U) | 1 cm Mu | ck (A9) (LRR O) | | | | |
| Histic Ep | pipedon (A2) | | Barrier Islan | ds 1 cm | Muck (S | 12) | 2 cm Mu | ck (A10) (LRR S) | | | | |
| Black Hi | stic (A3) | | (MLRA 15 | 3B, 153 | D) | | Coast Pr | airie Redox (A16) | | | | |
| Hydroge | n Sulfide (A4) | | Loamy Muck | ky Minera | al (F1) (L | RR O) | (outsic | de MLRA 150A) | | | | |
| Stratified | d Layers (A5) | | Loamy Gley | ed Matrix | k (F2) | | Reduced Vertic (F18) | | | | | |
| Organic | Bodies (A6) (LRR P, | T, U) | Depleted Ma | atrix (F3) | | | (outside MLRA 150A, 150B) | | | | | |
| 5 cm Mu | icky Mineral (A7) (LRI | R P, T, U) | Redox Dark | Surface | (F6) | | Piedmont Floodplain Soils (F19) (LRR P, | | | | | |
| Muck Pr | esence (A8) (LRR U) | | Depleted Da | rk Surfa | ce (F7) | | Anomalo | us Bright Floodplai | n Soils (F20) | | | |
| 1 cm Mu | ıck (A9) (LRR P, T) | | Redox Depre | essions (| (F8) | | (MLRA | 153B) | | | | |
| Depleted | d Below Dark Surface | (A11) | Marl (F10) (I | LRR U) | | | Red Pare | | | | | |
| Thick Da | ark Surface (A12) | | Depleted Oc | hric (F1 | 1) (MLRA | 151) | Very Shallow Dark Surface (F22) | | | | | |
| Coast Pr | rairie Redox (A16) (M | LRA 150A) | Iron-Mangar | nese Mas | sses (F12 | 2) (LRR O | D, P, T) (outside MLRA 138, 152A in FL, 154) | | | | | |
| Sandy M | lucky Mineral (S1) (Lf | RR O, S) | Umbric Surfa | ace (F13 |) (LRR P | ', T, U) | Barrier Islands Low Chroma Matrix (T | | | | | |
| Sandy G | eleyed Matrix (S4) | | Delta Ochric | (F17) (| ILRA 15 | 1) | (MLRA | | | | | |
| Sandy R | edox (S5) | | Reduced Ve | rtic (F18 |) (MLRA | 150A, 15 | Other (E | Other (Explain in Remarks) | | | | |
| Stripped | Matrix (S6) | | Piedmont Fl | oodplain | Soils (F | 19) (MLR | A 149A) | | | | | |
| Dark Su | rface (S7) (LRR P, S, | T, U) | Anomalous | Bright Fl | oodplain | Soils (F20 | 0) | | | | | |
| Polyvalu | e Below Surface (S8) | | (MLRA 14 | 9A, 153 | C, 153D) | | ³ Indicato | rs of hydrophytic ve | getation and | | | |
| (LRR : | S, T, U) | | Very Shallow | v Dark S | urface (F | 22) | wetlan | d hydrology must b | e present, | | | |
| | | | (MLRA 13 | 8, 152A | in FL, 1 | 54) | unless | disturbed or proble | ematic. | | | |
| Restrictive I | Layer (if observed): | | | | | | | | | | | |
| Type: | | | | | | | | | | | | |
| Depth (ir | nches): | | | | | | Hydric Soil Presen | t? Yes | NoX | | | |
| Remarks: | | | | | | | | | | | | |

| U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf See ERDC/EL TR-07-24; the proponent agency is 0 | Coastal Plain RegionOMB Control #: 0710-xxxx, Exp: Pending Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a) |
|---|--|
| Project/Site: Terrebonne Parish Port Commission-West Bank Site | City/County: Terrebonne Parish Sampling Date: 12/19/2023 |
| Applicant/Owner: Terrebonne Port Commission | State: LA Sampling Point: 6 |
| Investigator(s): Ronnie Duke, Gavin Pitre Sect | ion, Township, Range: Section 12, T17S-R17E |
| Landform (hillside, terrace, etc.): Field Local re | elief (concave, convex, none): Convex Slope (%): 1 |
| Subregion (LRR or MLRA): LRR O Lat: 29 33' 56.78" | Long: -90 41' 49.23" Datum: NAD83 |
| Soil Map Unit Name: Fausse Clay, 0 to 1 percent slopes, frequently floode | NWI classification: PSS1 Ch |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Ves X No (If no evolution in Remarks) |
| Are Vegetation Soil or Hydrology cignificantly disturb | ad2 Are "Normal Circumstances" present? Voc. X No |
| Are Vegetation, on, or hydrologysignificantly distort | |
| Are vegetation, Soli, or Hydrologynaturally problema | (if needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing sam | pling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes No X | is the Sampled Area within a Wetland? Yes <u>No X</u> |
| Remarks: Area has been experiencing drought. | |
| HYDROLOGY | |
| Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B13) High Water Table (A2) Marl Deposits (B15) (LRI Saturation (A3) Hydrogen Sulfide Odor (0 Water Marks (B1) Oxidized Rhizospheres of Sediment Deposits (B2) Presence of Reduced Iro Drift Deposits (B3) Recent Iron Reduction in Algal Mat or Crust (B4) Thin Muck Surface (C7) Iron Deposits (B5) Other (Explain in Remark Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): | Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Orainage Patterns (B10) C1) Moss Trim Lines (B16) n Living Roots (C3) Dry-Season Water Table (C2) n (C4) Crayfish Burrows (C8) Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum Moss (D8) (LRR T, U) Wetland Hydrology Present? Yes No _X |
| (Includes capillary fringe) | avious inspections) if available: |
| Seconde Recorded Data (Stream gauge, monitoring well, achai photos, ph | |
| | |
| Remarks: | |

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Sampling Point: 6

| Tree Stratum (Plot size:) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|--|---------------------|----------------------|---------------------|--|
| 1 | | | | Number of Dominant Species |
| 2. | | | | That Are OBL, FACW, or FAC: 0 (A) |
| 3 | | | | Total Number of Dominant |
| 4 | | | | Species Across All Strata: 1 (B) |
| 5 | | | | Percent of Dominant Species |
| 6 | <u> </u> | Tatal Oscar | | That Are OBL, FACW, or FAC: 0.0% (A/B) |
| E0% of total onver | 20% | = I otal Cover | | Total % Cover of: |
| Sapling Stratum (Plot size: | 20% | or total cover. | | |
| | | | | A = 0 |
| 2 | | | | FAC species 15 $x_3 = 45$ |
| 3 | | | | FACU species 75 $x 4 = 300$ |
| 4 | | | | $\frac{11}{12} = \frac{10}{12} = 10$ |
| 5. | | | | Column Totals: 100 (A) 395 (B) |
| 6. | | | | Prevalence Index = $B/A = 3.95$ |
| | | =Total Cover | | Hydrophytic Vegetation Indicators: |
| 50% of total cover: | 20% | of total cover: | | 1 - Rapid Test for Hydrophytic Vegetation |
| Shrub Stratum (Plot size:) | | | | 2 - Dominance Test is >50% |
| 1. | | | | 3 - Prevalence Index is ≤3.0 ¹ |
| 2. | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 6. | | | | be present, unless disturbed or problematic. |
| | : | =Total Cover | | Definitions of Five Vegetation Strata: |
| 50% of total cover: | 20% | of total cover: | | Tree – Woody plants, excluding woody vines, |
| Herb Stratum (Plot size: 30) | | | | approximately 20 ft (6 m) or more in height and 3 in. |
| 1. Cynodon dactylon | 70 | Yes | FACU | (7.6 cm) of larger in diameter at breast height (DBH). |
| 2. Paspalum urvillei | 10 | No | FAC | Sapling – Woody plants, excluding woody vines, |
| 3. Rumex crispus | 5 | No | FAC | approximately 20 ft (6 m) or more in height and less than 3 in (7.6 cm) DBH |
| 4. Symphyotrichum oolentangiense | 10 | No | UPL | |
| Solidago altissima 6. | 5 | No | FACU | Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. |
| 7. | | | | Herb – All herbaceous (non-woody) plants including |
| 8. | | | | herbaceous vines, regardless of size, <u>and</u> woody |
| 9. | | | | plants, except woody vines, less than approximately 3 |
| 10. | | | | ft (1 m) in neight. |
| 11 | | | . <u> </u> | Woody Vine – All woody vines, regardless of height. |
| | 100 | =Total Cover | | |
| 50% of total cover: 50 | 0 20% | of total cover: | 20 | |
| Woody Vine Stratum (Plot size:) | | | | |
| 1 | | | | |
| 2. | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | Hydrophytic |
| | | =Total Cover | | Vegetation |
| 50% of total cover: | 20% | of total cover: | | Present? Yes <u>No X</u> |
| Remarks: (If observed, list morphological adaptation | ns below.) | | | |

SOIL

| SOIL | | | | | | | | | Samp | ling Point: | 6 | |
|------------------------|-------------------------------|------------|----------------------------|----------------------|-------------------|------------------|--|---------------------------|---------------------|-----------------|----------------------|--|
| Profile Desc | cription: (Describe t | o the dep | oth needed to docu | iment th | ne indica | tor or co | onfirm the | absence o | of indicators | s.) | | |
| Depth | Matrix | - | Redc | x Featur | res | | | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Тех | dure | | Remarks | | |
| 0-16 | 10YR 3/1 | 95 | 10YR 5/8 | 5 | С | М | Loamy | /Clayey | Promin | ent redox conc | centrations | |
| | | | | | | | | | | | | |
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| | . <u> </u> | | | | | | | | | | | |
| ¹ Type: C=C | oncentration, D=Depl | etion, RM: | =Reduced Matrix, N | 1S=Mask | ed Sand | Grains. | 2 | ² Location: | PL=Pore Li | ning, M=Matrix | | |
| Hydric Soil | Indicators: (Applical | ble to all | LRRs, unless othe | rwise n | oted.) | | | Indicators | for Probler | natic Hydric S | Soils ³ : | |
| Histosol | (A1) | | Thin Dark S | urface (S | 39) (LRR | S, T, U) | _ | 1 cm M | luck (A9) (L | .RR O) | | |
| Histic Ep | oipedon (A2) | | Barrier Islan | ds 1 cm | Muck (S | 12) | - | 2 cm M | luck (A10) (| LRR S) | | |
| Black Hi | stic (A3) | | (MLRA 15 | 3B, 153 | D) | | Coast Prairie Redox (A16) | | | | | |
| Hydroge | n Sulfide (A4) | | Loamy Muck | cy Minera | al (F1) (L | RR O) | (outside MLRA 150A) | | | | | |
| Stratified | d Layers (A5) | | Loamy Gleye | ed Matrix | ĸ (F2) | | Reduced Vertic (F18) | | | | | |
| Organic | Bodies (A6) (LRR P, | T, U) | Depleted Ma | trix (F3) | | | | (outside MLRA 150A, 150B) | | | | |
| 5 cm Mu | ucky Mineral (A7) (LR | R P, T, U) | X Redox Dark | Surface | (F6) | | - | Piedmo | ont Floodpla | in Soils (F19) | (LRR P, T) | |
| Muck Pr | esence (A8) (LRK U) | 1 | Depleted Da | rk Surta | ce (⊢7) | | - | Anoma | lous Bright | Floodplain Soil | ls (F20) | |
| 1 CM IVIU | ICK (A9) (LKK P, I) | (444) | Reaox Depre | SSIONS (| (F8) | | | | (A 153B) | -1 (504) | | |
| | J BEIOW Dark Surface | (ATT) | | -KK UJ | | 151) | | | | | | |
| | rairia Radox (A16) (M | RA 150/ | Depieted OC A) Iron-Mandar | nnu (Ein 1966 Mai | | N /I RR C | O. P. T) (outside MLRA 138, 152A in FL, 15 | | | | | |
| Sandy M | Aucky Mineral (S1) (L | RR 0. S) | Umbric Surf | ace (F13 | 1 RR P | | Barrier Islands Low Chroma Matrix (T | | | | | |
| Sandy C | Heved Matrix (S4) | ur e, e, | Delta Ochric | : (F17) (f | MLRA 15 | , , , c, 1) | (MLRA 153B, 153D) | | | | | |
| Sandy R | Redox (S5) | | Reduced Ve | rtic (F18 |) (MLRA | ., 150A, 15 | 50B) Other (Explain in Remarks) | | | | | |
| Stripped | Matrix (S6) | | Piedmont Fl | oodplain | Soils (F1 | 19) (MLR | A 149A) | ` | | , | | |
| Dark Su | rface (S7) (LRR P, S, | , T, U) | Anomalous | Bright Fl | oodplain | Soils (F2 | 20) | | | | | |
| Polyvalu | e Below Surface (S8) |) | (MLRA 14 | 9A, 153 | C, 153D) | | [,] ³ Indicators of hydrophytic vegetation and | | | | | |
| (LRR | S, T, U) | | Very Shallov | v Dark S | urface (F | 22) | wetland hydrology must be present, | | | | | |
| I | | | (MLRA 13 | 8, 152A | in FL, 15 | 54) | | unle | ss disturbed | l or problemati | с. | |
| Restrictive | Layer (if observed): | | | | | | 1 | | | | | |
| Type: | | | | | | | | | | | | |
| Depth (ir | nches): | | | | | | Hydric | Soil Prese | ent? | Yes <u>X</u> N | 10 | |
| Remarks: | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R | OMB Control #: 0710-xxxx, Exp: Pending Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a) |
|--|---|
| Project/Site: Terrebonne Parish Port Commission-West Bank Site City/County: Terrebonne Pa | rish Sampling Date: <u>12/19/2023</u> |
| Applicant/Owner: Terrebonne Port Commission | State: LA Sampling Point: 7 |
| Investigator(s): Ronnie Duke, Gavin Pitre Section, Township, Range: Sec | |
| Landform (hillside, terrace, etc.): Field Local relief (concave, convex, none |): Concave Slope (%): 1 |
| Subregion (LRR or MLRA): LRR O Lat: 29 33' 55.67" Long: -90 41 | 52.46" Datum: NAD83 |
| Soil Map Unit Name: Fausse Clay, 0 to 1 percent slopes, frequently flooded | NWI classification: PSS1 Ch |
| Are climatic / hydrologic conditions on the site typical for this time of year? | (If no explain in Remarks) |
| Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circum | estances" procent? Ves X No |
| Are Vegetation, Soli, or Hydrologysignificantly disturbed? Are Normal Circum | |
| Are vegetation, Soil, or Hydrologynaturally problematic? (If needed, explain | any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing sampling point locations | , transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes No X | Yes NoX |
| Remarks: Area has been experiencing drought. | |
| HYDROLOGY | |
| Wetland Hydrology Indicators: Sec Primary Indicators (minimum of one is required; check all that apply) | ondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum Moss (D8) (LRR T, U) |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if availab | ble: |
| | |
| Remarks: | |

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Sampling Point: 7

| Tree Stratum (Plot size:) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|----------------------------------|---------------------|----------------------|---------------------|--|
| 1. | | | | Number of Dominant Species |
| 2. | | | | That Are OBL, FACW, or FAC:(A) |
| 3 | | | | Total Number of Dominant |
| 4 | | | | Species Across All Strata: 2 (B) |
| 5 | | | | Percent of Dominant Species |
| 6 | | | | That Are OBL, FACW, or FAC: 50.0% (A/B) |
| 500/ / / / | | =Total Cover | | Prevalence Index worksheet: |
| 50% of total cover: | 20% | of total cover: | | OBL species 0 |
| Sapling Stratum (Plot size:) | | | | $\frac{OBL species}{O} = \frac{O}{x^2} = \frac{O}{x^2}$ |
| · | | | | FACW species 0 $x^2 = 0$ |
| 2 | | | | FAC species 21 $x_3 = 03$ |
| 3 | | | | $\begin{array}{c} \text{FACO species} \\ \text{IPL species} \\ \hline \\ 5 \\ \text{VS} = 25 \\ \hline \\ 25 \\ \hline \\ 74 \\ \hline \\ 75 \\ \hline 75$ |
| 5 | | | | Column Totals: 100 (A) 384 (B) |
| 6 | | | | $\frac{1}{2} \frac{1}{2} \frac{1}$ |
| · | | =Total Cover | | Hydrophytic Vegetation Indicators: |
| 50% of total cover: | 20% | of total cover: | | 1 - Rapid Test for Hydrophytic Vegetation |
| Shrub Stratum (Plot size:) | | | | 2 - Dominance Test is >50% |
| <u> </u> | | | | 3 - Prevalence Index is ≤ 3.01 |
| 2. | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 6. | | | | be present, unless disturbed or problematic. |
| | | =Total Cover | | Definitions of Five Vegetation Strata: |
| 50% of total cover: | 20% | of total cover: | | Tree – Woody plants, excluding woody vines, |
| Herb Stratum (Plot size: 30) | | | | approximately 20 ft (6 m) or more in height and 3 in. |
| 1. Cynodon dactylon | 68 | Yes | FACU | |
| 2. Solidago altissima | 5 | No | FACU | Sapling – Woody plants, excluding woody vines, |
| 3. Paspalum urvillei | 20 | Yes | FAC | than 3 in. (7.6 cm) DBH. |
| 4. Symphyotrichum oolentangiense | 5 | <u>No</u> | | O handa Marada Dharta analadia ana daritara |
| 5. Eupatorium capililitolium | 1 | <u>No</u> | FACU | Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. |
| | <u> </u> | | FAC | |
| / | | <u> </u> | | Herb – All herbaceous (non-woody) plants, including |
| 9 | | | | plants, except woody vines, less than approximately 3 |
| 10 | | | | ft (1 m) in height. |
| 11. | | | | Woody Vine – All woody vines, regardless of height. |
| | 100 | =Total Cover | | |
| 50% of total cover: 5 | 0 20% | of total cover: | 20 | |
| Woody Vine Stratum (Plot size: | | | | |
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | Hydrophytic |
| | | =Total Cover | | Vegetation |
| 50% of total cover: | 20% | of total covor: | | Prosent? Vos No V |
| | 2070 | | | |

L

| SOIL | | | | | | | | | Sa | mpling Point: | 7 |
|---|---|--|---|---|---|--|---|--|--|--|--|
| Profile Desc | cription: (Describe t | o the dep | th needed to docu | ument th | e indica | or or co | nfirm the a | absence of | indica | tors.) | |
| Depth | Matrix | | Redo | x Featur | es | | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Text | ure | | Rema | rks |
| 0-16 | 10YR 3/2 | 70 | 10YR 5/8 | 30 | C | <u>M</u> | Loamy/ | Clayey | Prominent redox concentrations | | |
| | | | | _ | _ | | | | | | |
| | | | | | | | | | | | |
| | | : | | _ | | | | · | | | |
| 'Type: C=Co | oncentration, D=Depl | etion, RM= | Reduced Matrix, M | IS=Mask | ed Sand | Grains. | 2 | Location: P | L=Pore | Lining, M=Ma | atrix. |
| Histosol Histosol Histic Ep Black Hi Hydroge Stratified Organic 5 cm Mu Muck Pr 1 cm Mu Depleted Thick Da Coast Pr Sandy M Sandy R Sandy R Sandy R Dark Su Polyvalu (LRR | (A1) pipedon (A2) stic (A3) an Sulfide (A4) d Layers (A5) Bodies (A6) (LRR P, ucky Mineral (A7) (LR esence (A8) (LRR U) uck (A9) (LRR P, T) d Below Dark Surface ark Surface (A12) rairie Redox (A16) (M fucky Mineral (S1) (L Beyed Matrix (S4) Redox (S5) Matrix (S6) rface (S7) (LRR P, S, the Below Surface (S8) S, T, U) | T, U) R P, T, U) (A11) LRA 150A RR O, S) | Thin Dark S Barrier Islan (MLRA 15 Loamy Mucl Loamy Gley Depleted Ma X Redox Dark Depleted Da Redox Depre Marl (F10) (I Depleted Oc Iron-Mangar Umbric Surf Delta Ochric Reduced Ve Piedmont FI Anomalous (MLRA 14 Very Shallov (MLRA 13 | urface (S ds 1 cm 3B, 153 (sy Minera ed Matrix atrix (F3) Surface rrk Surface erssions (LRR U) chric (F11 hese Mas ace (F13) (IN rtic (F18 oodplain Bright Fla 9A, 153 (v Dark S (8, 152A | (F6) (F6) (F6) (F6) (F7) (F8) (F8) (MLRA (F12) (MLRA) (MLRA (F12) (MLRA) (MLA) (MLRA) | S, T, U) 2) RR O) (LRR O) (LRR O , T, U) 150A, 15 9) (MLR/ Soils (F2(22) 4) | •, P, T) • • • • • • • • • • • • • | 1 cm Mu 2 cm Mu Coast Pr (outsid Reduced Piedmor Anomald (MLRA Red Par Very Sha (outsid Barrier Is (MLRA Other (E 3)Indicato wetlar unless | ick (A9) ick (A10 rairie R de MLF d Vertic de MLF fut Flood bus Brig A 153B ent Mat allow D de MLF slands I A 153B, ixplain i prs of hy nd hydre s distur | (LRR O) (LRR S) edox (A16) (A 150A) (F18) (F18) (F18) (F18) (F18) (F18) (F18) (F100dplain (F21) ark Surface (F (F21) ark Surface (F (F)) (F)) (F) (F) (F) (F) (F) (F) (F) | B) 19) (LRR P, T) Soils (F20) F22) in FL, 154) Matrix (TS7) letation and present, natic. |
| Type: Depth (ir Remarks: | nches): | | | | | | Hydric | Soil Preser | nt? | Yes <u>X</u> | No |
| | | | | | | | | | | | |

| U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R | OMB Control #: 0710-xxxx, Exp: Pending Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a) |
|--|---|
| Project/Site: Terrebonne Parish Port Commission-West Bank Site City/County: Terrebonne Pa | arish Sampling Date: 12/19/2023 |
| Applicant/Owner: Terrebonne Port Commission | State: LA Sampling Point: 8 |
| Investigator(s): Ronnie Duke, Gavin Pitre Section, Township, Range: Sec | tion 12, T17S-R17E |
| Landform (hillside, terrace, etc.); Field Local relief (concave, convex, none |): Convex Slope (%): 1 |
| Subregion (I RR or MI RA): I RR O Lat: 29.33' 51.95" Long: -90.41 | ' 49.35" Datum: NAD83 |
| Soil Man Unit Name: Fausse Clay, 0 to 1 percent slopes, frequently flooded | NWL classification: PSS1 Ch |
| Are elimetic (hydrologic conditions on the site typical for this time of year? | |
| Are climatic / hydrologic conditions on the site typical for this time of year? Yes \underline{X} is | (ir no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrologysignificantly disturbed? Are "Normal Circun | nstances" present? Yes X No |
| Are Vegetation, Soil, or Hydrologynaturally problematic? (If needed, explain | any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing sampling point locations | , transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes No X | Yes No_X |
| Remarks: Area has been experiencing drought. | |
| HYDROLOGY | |
| Wetland Hydrology Indicators: Sec Primary Indicators (minimum of one is required; check all that apply) | ondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum Moss (D8) (LRR T, U) |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if availab | ble: |
| | |
| | |
| Remarks: | |

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Sampling Point: 8

| Tree Stratum (Plot size:) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|--|---------------------|----------------------|---------------------|--|
| 1 2. | | · | | Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A) |
| 3. | | | | Total Number of Dominant |
| 4. | | | | Species Across All Strata: 1 (B) |
| 5. | | | | Percent of Dominant Species |
| 6 | | | | That Are OBL, FACW, or FAC: 0.0% (A/B) |
| | : | =Total Cover | | Prevalence Index worksheet: |
| 50% of total cover: | 20% | of total cover: | | Total % Cover of: Multiply by: |
| Sapling Stratum (Plot size:) | | | | OBL species x 1 = |
| 1 | | | · | FACW species 0 $x 2 = 0$ |
| 2. | | | | FAC species 24 x 3 = 72 |
| 3. | | | | FACU species 75 $x 4 = 300$ |
| 4. | | | | $\begin{array}{c} \text{UPL species} 1 x \ 5 = 5 \\ \text{Old } x \ 5 \\ $ |
| 5. | | | | Column Totals: 100 (A) 377 (B) |
| 6. | | Tatal Osum | | Prevalence index = $B/A = 3.77$ |
| | | = I otal Cover | | Hydrophytic Vegetation Indicators: |
| Subsub Strature (Plat size) | 20% | of total cover: | | 1 - Rapid Test for Hydrophytic Vegetation |
| | | | | 2 - Dominance Test is >50% |
| · | | | | 3 - Prevalence index is ≤3.0 |
| 2. | | | | Problematic Hydrophytic Vegetation (Explain) |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 0. | | -Total Covor | | Definitions of Five Vegetation Strata: |
| 50% of total cover | 20% | of total cover. | | |
| Herb Stratum (Plot size: 30) | 2070 | | | approximately 20 ft (6 m) or more in height and 3 in. |
| 1 Cynodon dactylon | 70 | Yes | FACU | (7.6 cm) or larger in diameter at breast height (DBH). |
| 2. Solidago altissima | 5 | <u></u> No | FACU | Sapling – Woody plants, excluding woody vines |
| 3. Paspalum urvillei | 8 | No | FAC | approximately 20 ft (6 m) or more in height and less |
| 4. Symphyotrichum oolentangiense | 1 | No | UPL | than 3 in. (7.6 cm) DBH. |
| 5. Rumex crispus | 15 | No | FAC | Shrub - Woody Plants, excluding woody vines, |
| 6. Plantago major | 1 | No | FAC | approximately 3 to 20 ft (1 to 6 m) in height. |
| 7. | | | | Herb – All herbaceous (non-woody) plants, including |
| 8. | | | | herbaceous vines, regardless of size, and woody |
| 9. | | | | plants, except woody vines, less than approximately 3 |
| 10. | | | | ft (1 m) in height. |
| 11. | | | | Woody Vine – All woody vines, regardless of height. |
| | 100 : | =Total Cover | | |
| 50% of total cover: 5 | 0 20% | of total cover: | 20 | |
| Woody Vine Stratum (Plot size:) | | | | |
| 1 | | | | |
| 2. | | | | |
| 3. | | | | |
| 4 | | | | |
| 5 | | | | Hydrophytic |
| | : | =Total Cover | _ | Vegetation |
| 50% of total cover: | 20% | of total cover: | | Present? Yes No _X |
| Remarks: (If observed, list morphological adaptation | holow) | | | |

SOIL

| | | | | | | | | | Camping Fom | ι. <u></u> | | |
|-------------------------|--|---|-------------------|-------------------------------|-------------------|------------------|--|--------------------------|---------------------------------|---------------------------|--|--|
| Profile Desc | ription: (Describe t | o the dep | th needed to docι | ment th | ne indica | tor or co | nfirm the | e absence of | indicators.) | | | |
| Depth | Matrix | | Redo | x Featu | res | | | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Te | exture | Rem | arks | | |
| 0-10 | 10YR 3/2 | 100 | | | | | Loam | y/Clayey | | | | |
| 10-16 | 10YR 5/1 | 95 | 10YR 5/8 | 5 | С | М | Loam | y/Clayey | Prominent redox | concentrations | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| ¹ Type: C=Co | ncentration. D=Depl | etion. RM= | Reduced Matrix. N | S=Masł | ked Sand | Grains. | | ² Location: F | PL=Pore Lining. M=N | Aatrix. | | |
| Hydric Soil I | ndicators: (Applica | ble to all I | RRs, unless othe | rwise n | oted.) | | | Indicators f | or Problematic Hyd | dric Soils ³ : | | |
| Histosol | (A1) | | Thin Dark St | urface (S | 69) (LRR | S, T, U) | | 1 cm Mu | uck (A9) (LRR O) | | | |
| Histic Ep | ipedon (A2) | | Barrier Islan | ds 1 cm | Muck (S | 12) | | 2 cm Muck (A10) (LRR S) | | | | |
| Black His | stic (A3) | (MLRA 153B, 153D) Coas | | | | | Coast P | rairie Redox (A16) | | | | |
| Hydroger | n Sulfide (A4) | | Loamy Muck | y Mineral (F1) (LRR O) (ou | | | (outsi | de MLRA 150A) | | | | |
| Stratified | Layers (A5) | | Loamy Gleye | ed Matriz | x (F2) | | Reduced Vertic (F18) | | | | | |
| Organic | Bodies (A6) (LRR P, | 6) (LRR P. T. U) X Depleted Matrix (F3) | | | | (outsi | de MLRA 150A, 15 | 0B) | | | | |
| 5 cm Mu | cky Mineral (A7) (LR | R P, T, U) | Redox Dark | Surface | (F6) | | Piedmont Floodplain Soils (F19) (LRR P, T) | | | | | |
| Muck Pre | esence (A8) (LRR U) | | Depleted Da | rk Surfa | ce (F7) | | Anomalous Bright Floodplain Soils (F20) | | | | | |
| 1 cm Mu | ck (A9) (LRR P. T) | | Redox Depre | essions | (F8) | | | (MLR | A 153B) | · · · · | | |
| X Depleted | Below Dark Surface | (A11) | Marl (F10) (I | RR U) | (-) | | | Red Par | rent Material (F21) | | | |
| Thick Da | rk Surface (A12) | () | Depleted Oc | hric (F1 | 1) (MLRA | (151) | | Verv Sh | √erv Shallow Dark Surface (F22) | | | |
| Coast Pr | airie Redox (A16) (M | LRA 150A |) Iron-Mangar | ese Ma | sses (F12 |) (LRR O |), P, T) | (outsi | de MLRA 138, 152/ | A in FL. 154) | | |
| Sandy M | ucky Mineral (S1) (L | RR O. S) | Umbric Surf | ace (F13 | 8) (I RR P | . T. U) | ,.,. , | Barrier I | slands I ow Chroma | Matrix (TS7) | | |
| Sandy G | eved Matrix (S4) | | Delta Ochric | (F17) (| // Ε | , ., c, 1) | | (MLR) | Δ 153B 153D) | | | |
| Sandy B | adox (S5) | | Beduced Ve | (i 17) (i rtic (F18 | | ·) 150Δ 15 | 0B) | Other (F | Evolain in Remarks) | | | |
| Stripped | Matrix (S6) | | Piedmont Fl | ndolain | Soils (E1 | (MI R | Δ 149Δ) | | | | | |
| Onipped | face (S7) (I PP P S | т ну | | Bright El | oodolain | Soile (E20 | ה ו-13הן הו | | | | | |
| Dark Sur | $\frac{1}{2} = \frac{1}{2} = \frac{1}$ | 1, 0) | | 0A 153 | C 152D) | 50115 (1 20 | 5) | ³ Indicate | are of hydrophytic ve | actation and | | |
| | | | | Dork S | | 22) | | mulcal | nd budrology must b | | | |
| | (MLRA 138, 152A in FL, 154) | | | | | | wetland hydrology must be present, unless disturbed or problematic. | | | | | |
| Restrictive L | ayer (if observed): | | • | | • | - | | | | | | |
| Type: | · · · · | | | | | | | | | | | |
| - Depth (ir | ches): | | | | | | Hydri | c Soil Prese | nt? Yes X | No | | |
| | | | | | | | | | | | | |

| U.S. Army WETLAND DETERMINATION DATA S See ERDC/EL TR-07-24; t | U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R | | | | | | | |
|---|--|---------------------------------------|---|--|--|--|--|--|
| Project/Site: Terrebonne Parish Port Comn | nission-West Bank Site | City/County: Terrebonne Pa | arish Sampling Date: 12/19/2023 | | | | | |
| Applicant/Owner: Terrebonne Port Com | mission | | State: LA Sampling Point: 9 | | | | | |
| Investigator(s): Ronnie Duke, Gavin Pitre | Se | ction, Township, Range: Sec | tion 12, T17S-R17E | | | | | |
| Landform (hillside, terrace, etc.): Edge of C | Canal Local | relief (concave, convex, none | :): Convex Slope (%): 1 | | | | | |
| Subregion (I RR or MI RA): I RR O | Lat: 29.33' 50.59" | Long: -90 41 | '46.23" Datum: NAD83 | | | | | |
| Soil Map Unit Name: Fausse Clay, 0 to 1 pe | | | NWI classification: PSS1 Ch | | | | | |
| Are elimetia (hydrologia conditions on the sit | a turical for this time of year | | | | | | | |
| Are climatic / hydrologic conditions on the sit | | | | | | | | |
| Are Vegetation, Soil, or Hydro | logy significantly distu | irbed? Are "Normal Circur | nstances" present? Yes X No | | | | | |
| Are Vegetation, Soil, or Hydro | logynaturally problem | atic? (If needed, explain | any answers in Remarks.) | | | | | |
| SUMMARY OF FINDINGS – Attach | site map showing sa | mpling point locations | , transects, important features, etc. | | | | | |
| Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? | Yes X No Yes No X Yes X No | Is the Sampled Area within a Wetland? | Yes No_X | | | | | |
| Water 13 inches below surface. Saturation | 12 inches below surface. Are | ea has been experiencing drou | ight. | | | | | |
| HYDROLOGY | | | | | | | | |
| Wetland Hydrology Indicators: | | Sec | ondary Indicators (minimum of two required) | | | | | |
| Primary Indicators (minimum of one is requi | red; check all that apply) | | Surface Soil Cracks (B6) | | | | | |
| Surface Water (A1) | Aquatic Fauna (B13) | | Sparsely Vegetated Concave Surface (B8) | | | | | |
| High Water Table (A2) | Mari Deposits (B15) (Li | (C1) | Drainage Patterns (B10) | | | | | |
| Water Marks (B1) | | on Living Roots (C3) | Dry-Season Water Table (C2) | | | | | |
| Sediment Deposits (B2) | Presence of Reduced I | ron (C4) | Cravfish Burrows (C8) | | | | | |
| Drift Deposits (B3) | Recent Iron Reduction | in Tilled Soils (C6) | Saturation Visible on Aerial Imagery (C9) | | | | | |
| Algal Mat or Crust (B4) | Thin Muck Surface (C7 |) | Geomorphic Position (D2) | | | | | |
| Iron Deposits (B5) | Other (Explain in Rema | urks) | Shallow Aquitard (D3) | | | | | |
| Inundation Visible on Aerial Imagery (B | 7) | | FAC-Neutral Test (D5) | | | | | |
| Water-Stained Leaves (B9) | | | Sphagnum Moss (D8) (LRR T, U) | | | | | |
| Field Observations: | | | | | | | | |
| Surface Water Present? Yes | No X Depth (inches) | : | | | | | | |
| Water Table Present? Yes X | No Depth (inches) | : 13 | | | | | | |
| Saturation Present? Yes X | No Depth (inches) | : 12 Wetland Hydr | ology Present? Yes X No | | | | | |
| (includes capillary fringe) | nitering well a suich abotes a | | | | | | | |
| Describe Recorded Data (stream gauge, mo | phitoring well, aerial photos, p | previous inspections), ir availai | | | | | | |
| | | | | | | | | |
| Remarks: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Sampling Point: 9

| | Absolute | Dominant | Indicator | |
|--|------------|-----------------|-----------|---|
| Tree Stratum (Plot size: 30) | % Cover | Species? | Status | Dominance Test worksheet: |
| 1. Salix nigra | 5 | Yes | OBL | Number of Dominant Species |
| 2. I riadica sebitera | 2 | Yes | FAC | That Are OBL, FACW, or FAC:4 (A) |
| 3. | | | | Total Number of Dominant |
| 4 | | | | Species Across All Strata: <u>6</u> (B) |
| 5 | | | | Percent of Dominant Species |
| 6 | | | | That Are OBL, FACW, or FAC:66.7% (A/B) |
| | 7 | =Total Cover | | Prevalence Index worksheet: |
| 50% of total cover: | 4 20% | of total cover: | 2 | Total % Cover of: Multiply by: |
| Sapling Stratum (Plot size:) | | | | OBL species 15 x 1 =15 |
| 1 | | | | FACW species 10 x 2 = 20 |
| 2 | | | | FAC species X 3 =111 |
| 3 | | | | FACU species 50 x 4 = 200 |
| 4 | | | | UPL species 0 x 5 = 0 |
| 5 | | | | Column Totals: <u>112</u> (A) <u>346</u> (B) |
| 6 | | | | Prevalence Index = B/A = 3.09 |
| | | =Total Cover | | Hydrophytic Vegetation Indicators: |
| 50% of total cover: | 20% | of total cover: | | 1 - Rapid Test for Hydrophytic Vegetation |
| Shrub Stratum (Plot size: 30) | | | | X 2 - Dominance Test is >50% |
| 1. Baccharis halimifolia | 5 | Yes | FAC | 3 - Prevalence Index is ≤3.0 ¹ |
| 2. | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | ¹ Indicators of hydric soil and wotland hydrology must |
| 6. | | | | be present, unless disturbed or problematic. |
| | 5 | =Total Cover | | Definitions of Five Vegetation Strata: |
| 50% of total cover: | 3 20% | of total cover: | 1 | Tree – Woody plants, excluding woody vines |
| Herb Stratum (Plot size: 30) | | | | approximately 20 ft (6 m) or more in height and 3 in. |
| 1. Ambrosia trifida | 30 | Yes | FAC | (7.6 cm) or larger in diameter at breast height (DBH). |
| 2. Solidago altissima | 20 | Yes | FACU | Sapling – Woody plants, excluding woody vines |
| 3. Phragmites australis | 10 | No | FACW | approximately 20 ft (6 m) or more in height and less |
| 4 Zizaniopsis miliacea | 10 | No | OBI | than 3 in. (7.6 cm) DBH. |
| 5 Cynodon dactylon | | Yes | FACU | Shrub - Woody Plants, excluding woody vines |
| 6 | | | 17100 | approximately 3 to 20 ft (1 to 6 m) in height. |
| 7 | | | | |
| / | | | | Herb – All herbaceous (non-woody) plants, including |
| Q | | | | plants, except woody vines, less than approximately 3 |
| 9 | | | | ft (1 m) in height. |
| 10 | | | | Woody Vine – All woody vines, regardless of height |
| | 400 | Tatal Querra | | |
| | 100 | = l otal Cover | | |
| 50% of total cover: 5 | 0 20% | of total cover: | 20 | |
| Woody Vine Stratum (Plot size:) | | | | |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | Hydrophytic |
| | | =Total Cover | | Vegetation |
| 50% of total cover: | 20% | of total cover: | | Present? Yes X No |
| | === | | | |
| Remarks: (If observed, list morphological adaptation | ns below.) | | | |

| SOIL | | | | | | | | | Sa | ampling Poir | nt: | 9 |
|------------------------|------------------------------|---------------|-------------------|--------------------|--------------------|-------------------|-----------------|---|----------|--------------|-----------------|-----------|
| Profile Des | cription: (Describe | to the depth | needed to doci | ument ti | he indica | tor or co | nfirm the | e absence of | indicat | tors.) | | |
| Depth | Matrix | | Redo | ox Featu | res | | | | | · | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture Remarks | | | | | |
| 0-10 | 10YR 3/1 | 99 | 10YR 5/8 | 1 | C | M | Loam | y/Clayey | Pror | minent redo | x conce | ntrations |
| 10-16 | 10YR 4/1 | 99 | 10YR 5/8 | 1 | С | М | Loam | y/Clayey | Pror | minent redo | x conce | ntrations |
| | | | | | | | | | | | | |
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| | | · | | | | | | | | | | |
| ¹ Type: C=C | oncentration, D=Dep | letion, RM=F | Reduced Matrix, M | /IS=Masl | ked Sand | Grains. | | ² Location: Pl | L=Pore | e Lining, M= | Matrix. | |
| Hydric Soil | Indicators: (Applica | ble to all LF | Rs, unless othe | rwise n | oted.) | | | Indicators for | or Prob | plematic Hy | dric So | ils³: |
| Histosol | I (A1) | | Thin Dark S | urface (S | S9) (LRR | S, T, U) | | 1 cm Mu | ck (A9) |) (LRR O) | | |
| Histic E | pipedon (A2) | | Barrier Islan | ds 1 cm | Muck (S | 12) | | 2 cm Mu | ck (A10 | 0) (LRR S) | | |
| Black H | istic (A3) | | (MLRA 15 | 53B, 153 | SD) | | | Coast Pr | airie R | edox (A16) | | |
| Hydroge | en Sulfide (A4) | | Loamy Much | ky Miner | ral (⊢1) (L | RR O) | | (outsic | | RA 150A) | | |
| Stratifie | d Layers (A5) | | Loamy Gley | ed Matri | ix (F2) | | | Reduced | l Vertic | (F18) | | |
| Organic | Bodies (A6) (LRR P, | , T, U) | Depleted Ma | atrix (F3) |) | | | (outsic | de MLF | RA 150A, 15 | 0B) | |
| 5 cm Mi | ucky Mineral (A7) (LR | (R P, T, U) | Redox Dark | Surface | e (F6) | | | Piedmon | t Flood | Iplain Soils | (F19) (L | RR P, T) |
| Muck Pi | resence (A8) (LRR U |) | Depleted Da | ark Surfa | ace (F7) | | | Anomalous Bright Floodplain Soils (F20) | | | | (F20) |
| 1 cm Mi | uck (A9) (LRR P, T) | | Redox Depr | essions | (F8) | | | (MLRA | (153B) |) | | |
| Deplete | d Below Dark Surface | э (А11) | Marl (F10) (I | LRR U) | | | | Red Pare | ent Mat | terial (F21) | | |
| Thick D | ark Surface (A12) | | Depleted Oc | chric (F1 | 1) (MLRA | 151) | | Very Sha | allow D | ark Surface | (F22) | |
| Coast P | rairie Redox (A16) (N | ILRA 150A) | Iron-Mangar | nese Ma | isses (F12 | 2) (LRR C |), P, T) | (outsic | de MLF | RA 138, 152 | A in FL | , 154) |
| Sandy M | Mucky Mineral (S1) (L | .RR O, S) | Umbric Surf | ace (F13 | 3) (LRR P | ', T, U) | | Barrier Is | slands I | Low Chroma | a Matrix | (TS7) |
| Sandy C | Gleyed Matrix (S4) | | Delta Ochric | : (F17) (I | MLRA 15 | 1) | | (MLRA | 153B, | , 153D) | | |
| Sandy F | Redox (S5) | | Reduced Ve | ertic (F18 | B) (MLRA | 1 50A , 15 | 60B) | Other (E: | xplain i | n Remarks) | | |
| Stripped | d Matrix (S6) | | Piedmont Fl | loodplair | n Soils (F1 | 19) (MLR | A 149A) | | | | | |
| Dark Su | urface (S7) (LRR P, S | , T, U) | Anomalous | Bright Fl | loodplain | Soils (F2 | 0) | | | | | |
| Polyvalu | ue Below Surface (S8 | ;) | (MLRA 14 | 49A, 153 | BC, 153D) | | | ³ Indicato | rs of hy | drophytic v | egetatio | n and |
| (LRR | S, T, U) | | Very Shallov | w Dark S | Surface (F | 22) | | wetlan | d hydr | ology must l | oe prese | ent, |
| | | | (MLRA 13 | 38, 152A | in FL, 1۱ | 54) | | unless | distur | bed or probl | ematic. | |
| Restrictive | Layer (if observed): | | | | | | | | | | | |
| Type: | | | | | | | | | | | | |
| Depth (i | nches): | | | | | | Hydri | c Soil Presen | t? | Yes | No | X |
| Remarks: | | | | | | | | | | | | |
| | | | | | | | | | | | | |
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| U.S. Army WETLAND DETERMINATION DATA See ERDC/EL TR-07-24; t | / Corps of Engineers SHEET – Atlantic and Guither the proponent agency is | If Coastal Plain Region CECW-CO-R | OMB Control #: 07 Requirement Cont (Authority: AR 33 | 10-xxxx, Exp: Pending rol Symbol EXEMPT: 5-15, paragraph 5-2a) |
|---|---|---------------------------------------|--|--|
| Project/Site: Terrebonne Parish Port Comm | nission-West Bank Site | City/County: Terrebonne P | arish Sa | mpling Date: 12/19/202 |
| Applicant/Owner: Terrebonne Port Com | mission | | State: LA Sar | mpling Point: 10 |
| Investigator(s): Ronnie Duke, Gavin Pitre | Sec | ction. Township. Range: See | | |
| Landform (hillside terrace etc.): Field | Local | relief (concave, convex, none | e): None | Slope (%): 0 |
| Subregion (LRR or MLRA): LRR O | Lat: 29.33' 49.53" | Long: -90.4 | 1' 50 84" | Datum: NAD83 |
| Soil Man Unit Name: Fausse Clay, 0 to 1 pe | arcent slopes frequently flood | 2011g001 | NW/I classification: | PSS1 Ch |
| Are elimetia (hydrologia conditions on the sit | to turical for this time of year? | Vee V | | |
| Are climatic / hydrologic conditions on the sit | e typical for this time of year? | | vo (if no, expla | in in Remarks.) |
| Are vegetation, Soll, or Hydro | significantly distur | rbed? Are "Normal Circul | mstances present? | Yes <u>X</u> NO |
| Are Vegetation, Soil, or Hydro | ology naturally problema | atic? (If needed, explain | any answers in Remar | ks.) |
| SUMMARY OF FINDINGS – Attach | ۱ site map showing sar | mpling point locations | s, transects, impo | rtant features, etc. |
| Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? | Yes No X Yes X No | Is the Sampled Area within a Wetland? | Yes No | <u>X</u> |
| Remarks: Over grown field "Not sure if property line is | correct." Area has been expe | eriencing drought. | | |
| HYDROLOGY | | | | |
| Wetland Hydrology Indicators: | | Sec | condary Indicators (mini | mum of two required) |
| Primary Indicators (minimum of one is requ | ired; check all that apply) | | Surface Soil Cracks (E | 6) |
| Surface Water (A1) | Aquatic Fauna (B13) | | Sparsely Vegetated Co | oncave Surface (B8) |
| High Water Table (A2) | Marl Deposits (B15) (LR | RR U) | Drainage Patterns (B1 | 0) |
| Saturation (A3) | Hydrogen Sulfide Odor | (C1) | Moss Trim Lines (B16) | |
| Water Marks (B1) | Oxidized Rhizospheres | on Living Roots (C3) | Dry-Season Water Tal | ble (C2) |
| Sediment Deposits (B2) | Presence of Reduced In | n Tilled Sails (C6) | Crayfish Burrows (C8) | orial Imagony (CQ) |
| Algal Mat or Crust (B4) | Thin Muck Surface (C7) | | | |
| Iron Deposits (B5) | | | Shallow Aquitard (D3) | 02) |
| Inundation Visible on Aerial Imagery (B | Other (Explain in Remai | | FAC-Neutral Test (D5) | |
| Water-Stained Leaves (B9) | ') | | Sphagnum Moss (D8) | (LRR T. U) |
| Field Observations: | | | | () - / |
| Surface Water Present? Yes | No X Depth (inches): | | | |
| Water Table Present? Yes | No X Depth (inches): | | | |
| Saturation Present? Yes | No X Depth (inches): | Wetland Hyd | rology Present? | Yes No X |
| (includes capillary fringe) | | | | |
| Describe Recorded Data (stream gauge, m | onitoring well, aerial photos, p | revious inspections), if availa | ble: | |
| | | | | |
| Pemarks: | | | | |
| Nellaiks. | | | | |
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Sampling Point: 10

| Tree Stratum (Plot size: | Absolute Dominant % Cover Species? | Indicator Status | Dominance Test worksheet: |
|--|---------------------------------------|---------------------|---|
| 1. | | | Number of Dominant Species |
| 2. | | | That Are OBL, FACW, or FAC: (A) |
| 3 | | | Total Number of Dominant |
| 4 | | | Species Across All Strata: 2 (B) |
| 5 | | | Percent of Dominant Species |
| 6 | | | That Are OBL, FACW, or FAC: 0.0% (A/B) |
| | =Total Cover | | Prevalence Index worksheet: |
| 50% of total cover: | 20% of total cover: | | Total % Cover of: Multiply by: |
| Sapling Stratum (Plot size:) | | | OBL species x 1 = |
| 1 | | | FACW species 0 x 2 = 0 |
| 2 | | | FAC species x 3 = |
| 3 | | | FACU species <u>100</u> x 4 = <u>400</u> |
| 4 | | | UPL species x 5 = |
| 5 | | | Column Totals: 100 (A) 400 (B) |
| 6 | | | Prevalence Index = B/A =4.00 |
| | =Total Cover | | Hydrophytic Vegetation Indicators: |
| 50% of total cover: | 20% of total cover: | | 1 - Rapid Test for Hydrophytic Vegetation |
| Shrub Stratum (Plot size:) | | | 2 - Dominance Test is >50% |
| 1 | | | 3 - Prevalence Index is ≤3.0' |
| 2 | | | Problematic Hydrophytic Vegetation' (Explain) |
| 3. | | | |
| 4 | | | |
| 5 | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 6. | | | be present, unless disturbed or problematic. |
| | =Total Cover | | Definitions of Five Vegetation Strata: |
| 50% of total cover: | 20% of total cover: | | Tree – Woody plants, excluding woody vines, |
| Herb Stratum (Plot size: <u>30</u>) | | | (7.6 cm) or larger in diameter at breast height (DBH). |
| 1. Solidago altissima | 25 Yes | FACU | |
| 2. Rubus trivialis | <u>70 Yes</u> | FACU | Sapling – Woody plants, excluding woody vines, |
| 3. Eupatorium capillitolium | <u> </u> | FACU | than 3 in. (7.6 cm) DBH. |
| 5. | | | Shrub - Woody Plants, excluding woody vines. |
| 6. | | | approximately 3 to 20 ft (1 to 6 m) in height. |
| 7 | | | Herb – All herbaceous (non-woody) plants, including |
| 8 | | | herbaceous vines, regardless of size, and woody |
| 9 | | | plants, except woody vines, less than approximately 3 |
| 10 | | | |
| 11 | | | Woody Vine – All woody vines, regardless of height. |
| | 100 =Total Cover | | |
| 50% of total cover: 5 | 0 20% of total cover: | 20 | |
| Woody Vine Stratum (Plot size:) | | | |
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | Hydrophytic |
| | =Total Cover | | Vegetation |
| 50% of total cover: | 20% of total cover: | | Present? Yes No X |
| Remarks: (If observed, list morphological adaptation | | | |

SOIL

| SOIL | | | | | | | | | Sampling Point: | 10 | | | |
|-------------------------|-------------------------------|--------------|----------------------|------------------|-------------------|-------------------|------------|--|--------------------------|----------------------|--|--|--|
| Profile Desc | ription: (Describe t | the depr | th needed to docu | ument th | ne indica | tor or co | onfirm the | absence of i | ndicators.) | | | | |
| Depth | Matrix | | Redc | x Featur | res | | | | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Те | xture | Remarks | | | | |
| 0-13 | 10YR 3/1 | 98 | 10YR 5/8 | 2 | С | М | Loam | y/Clayey | Prominent redox con | centrations | | | |
| 13-16 | 10YR 2/1 | 100 | | | С | М | Loam | v/Clavey | | | | | |
| | | | | | | | | <u> </u> | | | | | |
| | | <u> </u> | | | | | | | | | | | |
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| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| ¹ Type: C=Co | oncentration, D=Depl | etion, RM= | Reduced Matrix, N | 1S=Mask | ked Sand | Grains. | | ² Location: PL | _=Pore Lining, M=Matrix | ζ. | | | |
| Hydric Soil I | ndicators: (Applical | ble to all L | RRs, unless othe | rwise n | oted.) | | | Indicators fo | r Problematic Hydric S | Soils ³ : | | | |
| Histosol | (A1) | | Thin Dark S | urface (S | 39) (LRR | S, T, U) | | 1 cm Muc | ck (A9) (LRR O) | | | | |
| Histic Ep | vipedon (A2) | | Barrier Islan | ds 1 cm | Muck (S | 12) | | 2 cm Muc | ck (A10) (LRR S) | | | | |
| Black His | stic (A3) | | (MLRA 15 | 3B, 153 | D) | | | Coast Pra | t Prairie Redox (A16) | | | | |
| Hydroger | n Sulfide (A4) | | Loamy Muck | vy Minera | al (F1) (L | .RR O) | | (outsid | e MLRA 150A) | | | | |
| Stratified | Layers (A5) | | Loamy Gley | ed Matrix | x (F2) | | | Reduced | Vertic (F18) | | | | |
| Organic I | Bodies (A6) (LRR P, | T, U) | Depleted Ma | atrix (F3) | 1 | | | (outsid | e MLRA 150A, 150B) | | | | |
| 5 cm Mu | cky Mineral (A7) (LR | R P, T, U) | X Redox Dark | Surface | (F6) | | | Piedmont Floodplain Soils (F19) (LRR P, T) | | | | | |
| Muck Pre | esence (A8) (LRR U) | l. | Depleted Da | irk Surfa | ce (F7) | | | Anomalo | us Bright Floodplain Soi | ils (F20) | | | |
| 1 cm Mu | ck (A9) (LRR P, T) | | Redox Depre | essions | (F8) | | | (MLRA | 153B) | | | | |
| Depleted | I Below Dark Surface | : (A11) | Marl (F10) (I | LRR U) | | | | Red Pare | ent Material (F21) | | | | |
| Thick Da | rk Surface (A12) | | Depleted Oc | hric (F1 | 1) (MLRA | \ 151) | | Very Sha | llow Dark Surface (F22) |) | | | |
| Coast Pr | airie Redox (A16) (M | LRA 150A |) Iron-Mangar | iese Mas | sses (F12 | 2) (LRR C |), P, T) | (outsid | e MLRA 138, 152A in I | FL, 154) | | | |
| Sandy M | ucky Mineral (S1) (L l | RR O, S) | Umbric Surfa | ace (F13 | 3) (LRR P | י, T, U) | | Barrier Is | lands Low Chroma Mate | rix (TS7) | | | |
| Sandy G | leyed Matrix (S4) | | Delta Ochric | ; (F17) (| MLRA 15 | 1) | | (MLRA | 153B, 153D) | | | | |
| Sandy R | edox (S5) | | Reduced Ve | rtic (F18 | 3) (MLRA | 1 50A , 15 | 50B) | Other (Ex | plain in Remarks) | | | | |
| Stripped | Matrix (S6) | | Piedmont Fl | oodplain | Soils (F | 19) (MLR | A 149A) | | | | | | |
| Dark Sur | face (S7) (LRR P, S, | , T, U) | Anomalous | Bright Fl | oodplain | Soils (F2 | .0) | | | | | | |
| Polyvalue | e Below Surface (S8) |) | (MLRA 14 | 9A, 153 | C, 153D) | 1 | | ³ Indicator | s of hydrophytic vegeta | tion and | | | |
| (LRR S | S, T, U) | | Very Shallov | v Dark S | Surface (F | 22) | | wetland | d hydrology must be pre | esent, | | | |
| | | | (MLRA 13 | 8, 152A | in FL, 1 | 54) | | unless | disturbed or problemati | ic. | | | |
| Restrictive L | ayer (if observed): | | | | | | T | | | | | | |
| Type: | | | | | | | | | | | | | |
| Depth (in | iches): | | | | | | Hydri | c Soil Present | t? Yes <u>X</u> N | No | | | |
| Remarks: | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

ATTACHMENT F PLOT PHOTOGRPAHS





Figure 1. Plot 1 Soils



Figure 2. Plot 1 Facing North







Figure 3. Plot 1 Facing South





Figure 5. Plot 1 Facing West





Figure 7. Plot 2 Facing North



Figure 8. Plot 2 Facing South



Figure 9. Plot 2 Facing East





Figure 11. Plot 3 Soils







Figure 13. Plot 3 Facing South







Figure 15. Plot 3 Facing West



Figure 16. Plot 4 Soils





Figure 17. Plot 4 Facing North







Figure 19. Plot 4 Facing East







Figure 21. Plot 5 Soils







Figure 23. Plot 5 Facing South







Figure 25. Plot 5 Facing West







Figure 27. Plot 6 Facing North



Figure 28. Plot 6 Facing South





Figure 29. Plot 6 Facing East





Figure 31. Plot 7 Soils



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Figure 32. Plot 7 Facing North





Figure 33. Plot 7 Facing South



Figure 34. Plot 7 Facing East





Figure 35. Plot 7 Facing West



Figure 36. Plot 8 Soils







Figure 37. Plot 8 Facing North



Figure 38. Plot 8 Facing South





Figure 39. Plot 8 Facing East



Figure 40. Plot 8 Facing West





Figure 41. Plot 9 Soils







Figure 43. Plot 9 Facing South



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Figure 45. Plot 9 Facing West






Figure 46. Plot 10 Facing North



Figure 47. Plot 10 Facing South







Figure 48. Plot 10 Facing East



WETLAND DELINEATION

For

Louisiana Economic Development (LED) Certified Sites Program West Bank Site Terrebonne Parish, LA

Prepared for:

Terrebonne Parish Port Commission

January 2024



PREFACE

This Wetland Delineation was prepared for Terrebonne Parish Port Commission in preparation for the Louisiana Economic Development (LED) Louisiana Certified Sites Program West Bank Site. This document was completed in January 2024 by Delta Coast Consultants, LLC. principle investigator, Ronnie W. Duke, Jr. Mr. Duke can be contacted at:

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| 4 |
| 6 |
| 8 |
| 10 |
| 14 |
| 45 |
| |



INTRODUCTION

Terrebonne Port Commission is requesting a Louisiana Economic Development (LED) Site Certification for the subject property located along Rome Woodard Drive in Houma, Section 12, T17S-R17E, Terrebonne Parish, LA (Attachment A). The delineated area compromises <u>+</u> 37.79 acres and is approximately 0.45 miles south of Houma city limits and has approximately 1,400 feet of water frontage. The Gulf of Mexico is approximately 37 nautical miles south, with the Houma Navigation Canal located 1 nautical mile from the site and the Intracoastal Waterway 2.3 miles to the northwest. The subject property is located in an active industrial area within the port, with Louisiana CAT located to the north and Eagle Dry-Dock and Marine Services located to the south. The delineated area consisted of an open maintained field located between the two aforementioned businesses. The area received average rainfall over the course of the previous couple weeks prior to the site visit. A field investigation was conducted on December 19, 2023.

METHODS

The U.S. Army Corps of Engineers (USACE) method for routine wetland determination (1987 COE Wetlands Delineation Manual) was utilized in conjunction with Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (Version 2.0). Initial review of soils data was obtained from the USDA-NRCS Web Soil Survey of Terrebonne Parish (Attachment D). The indicator status of plants was obtained from the USACE Atlantic and Gulf Coastal Plain Region-NWPL 2020 Final Ratings.



RESULTS AND DISCUSSION

The delineated area compromised \pm 37.79 acres and is bordered by a drainage ditch along Rome Woodard Street to the West, slips off of the Houma Navigation Canal to the South and East, and a vacant lot to the North. The area delineated consisted of a well-maintained field with a drainage swale leading to a ditch that runs along Rome Woodard Street. The property appeared to be regularly maintained by bush hogging.

The delineated area consisted of two distinct habitat types. The first habitat type was comprised of various grass species and other herbaceous species. This habitat type was located in the open field and was the majority of the habitat identified within the property. The second habitat type consisted of small trees, shrubs and herbaceous species. This habitat type was located directly adjacent to the slips bordering the property to the east and south. According to the Soil Survey of Terrebonne Parish by the USDA Web Soil Survey (2022), the mapped soils for the delineated site are Fausse clay, 0 to 1 percent slopes, frequently flooded. (Attachment D). The soil survey appears accurate for the overall gradient of the site observed. The site appears to drain after a rain event towards the drainage swale located near the center of the property and to the existing drainage ditch to the west along Rome Woodard Street.

Ten (10) sample plots were collected within the delineation boundary. The data indicated that 32.35 acres on this site are non-wet uplands, and 2.79 acres are other waters (Attachment C). No potential jurisdictional wetlands were determined to be within the delineation area. The elevation is consistent throughout the entire site in the areas considered a non-wetland. The United States Army Corps of Engineers (USACE) has the final authority over wetland determinations. A permit under section 404 of the Clean Water Act of 1972 will be required for development and certain activities in jurisdictional wetlands.



BIBLIOGRAPHY

- Munsell Color. 1975. Munsell Soil Color Charts, Kollmorgen Corporation, Baltimore MD.
- Tiner, R. W. 1999. Wetland Indicators: a guide to wetland identification, delineation, classification, and mapping. CRC Press, N.W. Boca Raton, Florida, 392 pp.

USDA – NRCS. 2022. Web Soil Survey

http://websoilsurvey.nrcs.usda.gov/app/



ATTACHMENT A VICINITY MAP





ATTACHMENT B SITE MAP





ATTACHMENT C POTENTIAL WETLANDS BOUNDAY WITH DATA POINTS





ATTACHMENT D SOIL MAP





National Cooperative Soil Survey

Conservation Service

| MAP | LEGEND | MAP INFORMATION | | | |
|---|---|--|--|--|--|
| Area of Interest (AOI) Area of Interest (AOI) | Spoil AreaStony Spot | The soil surveys that comprise your AOI were mapped at 1:24,000. | | | |
| Soils | Very Stony Spot | Warning: Soil Map may not be valid at this scale. | | | |
| Soil Map Unit Lines | w Wet Spot | Enlargement of maps beyond the scale of mapping can ca | | | |
| Soil Map Unit Points | △ Other | line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more de | | | |
| Special Point Features | Special Line Features | scale. | | | |
| lowout | Water Features | | | | |
| Borrow Pit | Streams and Canals | Please rely on the bar scale on each map sheet for map measurements. | | | |
| 💥 Clay Spot | +++ Rails | Source of Map: Natural Resources Conservation Service | | | |
| Closed Depression | Interstate Highways | Coordinate System: Web Mercator (EPSG:3857) | | | |
| Gravel Pit | JS Routes | Maps from the Web Soil Survey are based on the Web Me | | | |
| Gravelly Spot | 🧫 Major Roads | projection, which preserves direction and shape but distort distance and area. A projection that preserves area, such a | | | |
| | Local Roads | Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required | | | |
| | Background | This product is gaparated from the LISDA NPCS cortified a | | | |
| Marsh or swamp | Aerial Photography | of the version date(s) listed below. | | | |
| Mine or Quarry | | Soil Survey Area: Terrebonne Parish, Louisiana | | | |
| | | Survey Area Data: Version 19, Sep 12, 2023 | | | |
| Perennial Water Pack Outeron | | Soil map units are labeled (as space allows) for map scale: 1:50,000 or larger. | | | |
| Saline Spot | | Date(s) aerial images were photographed: Mar 4, 2023— | | | |
| T Sandy Shot | | 2023 | | | |
| | | The orthophoto or other base map on which the soil lines w | | | |
| Severely Eroded Spot | | compiled and digitized probably differs from the backgroun imagery displayed on these maps. As a result, some minor | | | |
| Sinkhole | | shifting of map unit boundaries may be evident. | | | |
| Slide or Slip | | | | | |
| g Sodic Spot | | | | | |



Map Unit Legend

| Map Unit Symbol Map Unit Name | | Acres in AOI | Percent of AOI | | |
|-------------------------------|--|--------------|----------------|--|--|
| FAA | Fausse clay, 0 to 1 percent slopes, frequently flooded | 32.5 | 100.0% | | |
| Totals for Area of Interest | | 32.5 | 100.0% | | |



ATTACHMENT E DATA SHEETS



| U.S. Arm WETLAND DETERMINATION DATA See ERDC/EL TR-07-24; | OMB Control #: 071 Requirement Cont (Authority: AR 335 | 0-xxxx, Exp: Pending rol Symbol EXEMPT: i-15, paragraph 5-2a) | | | | |
|--|--|---|--------------------------|--|--|--|
| Project/Site: <u>Terrebonne Parish Port Com</u> Applicant/Owner: <u>Terrebonne Port Com</u> | mission - West Bank Site | City/County: Terrebonne Pa | arishSar State:LASar | npling Date: <u>12/19/2023</u> npling Point: <u>1</u> | | |
| Investigator(s): Ronnie Duke, Gavin Pitre | Se | ection, Township, Range: Sec | tion 12, T17S-R17E | | | |
| Landform (hillside, terrace, etc.): Field | Loca | al relief (concave, convex, none | e): None | Slope (%): 0 | | |
| Subregion (LRR or MLRA): LRR O | Lat: 29 33' 47.13" | Long: -90 4 | 1' 43.33" | Datum: NAD83 | | |
| Soil Map Unit Name: Fausse Clay, 0 to 1 p | ercent slopes, frequently floo | ded | NWI classification: | PSS1 Ch | | |
| Are climatic / hydrologic conditions on the s | ite typical for this time of year | ·? Yes X M | lo (lf no, expla | in in Remarks.) | | |
| Are Vegetation Soil or Hydr | cology significantly dist | urbed? Are "Normal Circu | nstances" present? | Ves X No | | |
| Are Vegetation, con, or Hydr | ology significantly dist | motio? (If needed, evaluin | | | | |
| | ologynaturally probler | natic? (if needed, explain | any answers in Reman | (S.) | | |
| SUMMARY OF FINDINGS – Attac | h site map showing sa | ampling point locations | , transects, impor | tant features, etc. | | |
| Hydrophytic Vegetation Present? | Yes No X | Is the Sampled Area | | | | |
| Hydric Soil Present? | Yes X No | within a Wetland? | Yes No | <u>X</u> | | |
| Wetland Hydrology Present? | Yes No X | | | | | |
| Area has been experiencing drought. | | | | | | |
| HYDROLOGY | | | | | | |
| Wetland Hydrology Indicators: | | Sec | condary Indicators (mini | mum of two required) | | |
| Primary Indicators (minimum of one is requ | uired; check all that apply) | | Surface Soil Cracks (B | 6) | | |
| Surface Water (A1) | Aquatic Fauna (B13) | | Sparsely Vegetated Co | oncave Surface (B8) | | |
| High Water Table (A2) | Marl Deposits (B15) (L | _RR U) | Drainage Patterns (B1) | 0) | | |
| Saturation (A3) Water Marks (B1) | | r (CT) | _Moss Trim Lines (B16) | | | |
| Sediment Deposits (B2) | Presence of Reduced | Iron (C4) | Cravfish Burrows (C8) | | | |
| Drift Deposits (B3) | Recent Iron Reduction | in Tilled Soils (C6) | Saturation Visible on A | erial Imagery (C9) | | |
| Algal Mat or Crust (B4) | Thin Muck Surface (C | 7) | Geomorphic Position (D2) | | | |
| Iron Deposits (B5) | Other (Explain in Rem | arks) | Shallow Aquitard (D3) | | | |
| Inundation Visible on Aerial Imagery (E | 37) | | FAC-Neutral Test (D5) | | | |
| Water-Stained Leaves (B9) | | | Sphagnum Moss (D8) | (LRR T, U) | | |
| Field Observations: | | | | | | |
| Surface Water Present? Yes | No X Depth (inches | ;): | | | | |
| Water Table Present? Yes | No X Depth (inches | s): | | | | |
| Saturation Present? Yes | No X Depth (inches | S): Wetland Hydi | ology Present? | Yes <u>No X</u> | | |
| (Includes capillary fringe) | | nrovious inspections) if sucils | blar | | | |
| Describe Recorded Data (Stream gauge, in | ionitoring well, aenai priotos, | previous inspections), ir availa | Die. | | | |
| | | | | | | |
| Remarks: | | | | | | |
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Sampling Point: 1

| 1. | Tree Stratum (Plot size:) | Absolute Dominant Indicator % Cover Species? Status | Dominance Test worksheet: |
|---|---|--|---|
| 2. | <u> </u> | <u> </u> | Number of Dominant Species |
| 3. | 2. | | That Are OBL, FACW, or FAC: 0 (A) |
| 4. | 3. | | Total Number of Dominant |
| 5. | 4. | | Species Across All Strata: 1 (B) |
| 6. | 5. | | Percent of Dominant Species |
| Image: Stratum Image: | 6. | | That Are OBL, FACW, or FAC: 0.0% (A/B) |
| 50% of total cover: | | =Total Cover | Prevalence Index worksheet: |
| Saping Stratum (Plot size:) OBL species 0 x 1 = 0 1. | 50% of total cover: | 20% of total cover: | Total % Cover of: Multiply by: |
| 1. FACW species 0 x 2 = 0 2. FAC species 11 x 3 = 33 3. | Sapling Stratum (Plot size:) | | OBL species x 1 = |
| 2. FAC species 11 $x 3 = 33$ 3. FAC species 60 $x 4 = 240$ 4. | 1 | | FACW species 0 x 2 = 0 |
| 3. FACU species 60 $x 4 = 240$ 9. | 2 | | FAC species x 3 = 33 |
| 4. UPL species 1 $x 5 = 5$ 5. Colum Totals: 72 (A) 273 (B) 6. | 3 | | FACU species 60 x 4 = 240 |
| 5. | 4 | | UPL species <u>1</u> x 5 = <u>5</u> |
| 6. | 5. | | Column Totals: 72 (A) 278 (B) |
| =Total Cover 50% of total cover: 20% of total cover: 1. Shrub Stratum (Plot size:) 1. 2. Dominance Test is >50% 3. | 6. | | Prevalence Index = B/A = 3.86 |
| 50% of total cover: 20% of total cover: | | =Total Cover | Hydrophytic Vegetation Indicators: |
| Shrub Stratum (Plot size:) | 50% of total cover: | 20% of total cover: | 1 - Rapid Test for Hydrophytic Vegetation |
| 1. | Shrub Stratum (Plot size:) | | 2 - Dominance Test is >50% |
| 2. | 1. | | 3 - Prevalence Index is ≤3.0 ¹ |
| 3. | 2. | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 4. | 3. | | |
| 5. | 4. | | |
| 6. | 5. | | ¹ Indicators of hydric soil and wetland hydrology must |
| Solve of total cover: | 6. | | be present, unless disturbed or problematic. |
| 50% of total cover: 20% of total cover: | | =Total Cover | Definitions of Five Vegetation Strata: |
| Herb Stratum (Plot size:30) approximately 20 ft (6 m) or more in height and 3 in. 1. Cynodon dactylon 60 Yes FACU 2. Paspalum urvillei 10 No FAC 3. Rumex crispus 1 No FAC 4. Symphyotrichum oolentangiense 1 No FAC 5. | 50% of total cover: | 20% of total cover: | Tree – Woody plants excluding woody vines |
| 1. Cynodon dactylon 60 Yes FACU (7.6 cm) or larger in diameter at breast height (DBH). 2. Paspalum unvillei 10 No FAC 3. Rumex crispus 1 No FAC 4. Symphyotrichum oolentangiense 1 No FAC 5. 1 No UPL Saping – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. 5. 1 No UPL Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. 7. | Herb Stratum (Plot size: 30) | | approximately 20 ft (6 m) or more in height and 3 in. |
| 2. Paspalum urvillei 10 No FAC Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. 3. Rumex crispus 1 No UPL 5. | 1. Cynodon dactylon | 60 Yes FACU | (7.6 cm) or larger in diameter at breast height (DBH). |
| 3. Rumex crispus 1 No FAC approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. 5. | 2. Paspalum urvillei | 10 No FAC | Sapling – Woody plants, excluding woody vines. |
| 4. Symphyotrichum oolentangiense 1 No UPL than 3 in. (7.6 cm) DBH. 5. | 3. Rumex crispus | 1 No FAC | approximately 20 ft (6 m) or more in height and less |
| 5. | 4. Symphyotrichum oolentangiense | 1 No UPL | than 3 in. (7.6 cm) DBH. |
| 6. | 5. | | Shrub - Woody Plants, excluding woody vines, |
| 7. | 6. | | approximately 3 to 20 ft (1 to 6 m) in height. |
| 8. | 7. | | Herb – All herbaceous (non-woody) plants including |
| 9. | 8. | | herbaceous vines, regardless of size, and woody |
| 10. | 9. | | plants, except woody vines, less than approximately 3 |
| 11. | 10. | | ft (1 m) in height. |
| 72 =Total Cover 50% of total cover: 36 20% of total cover: 15 Woody Vine Stratum (Plot size:) 1. | 11. | | Woody Vine – All woody vines, regardless of height. |
| 50% of total cover: 36 20% of total cover: 15 Woody Vine Stratum (Plot size:) . . 1. . . . 2. . . . 3. . . . 4. . . . | | 72 =Total Cover | |
| Woody Vine Stratum (Plot size:) 1. | 50% of total cover: 3 | 6 20% of total cover: 15 | |
| 1. | Woody Vine Stratum (Plot size:) | | |
| 2. 3. 4. | 1. | | |
| 3. | 2. | | |
| 4. | 3. | | |
| • | 4. | | |
| 5. | 5. | | |
| =Total Cover Hydrophytic | | =Total Cover | nyaropnytic Vegetation |
| 50% of total cover: 20% of total cover: Present? Yes No _X | 50% of total cover: | 20% of total cover: | Present? Yes No X |
| Remarks: (If observed, list morphological adaptations below.) | Remarks: (If observed, list morphological adaptatio | ns below.) | |

SOIL

| SOIL | | | | | | | | | Sar | npling Point: | 1 |
|------------------|---|--------------|----------------------------------|----------------|-------------------|------------------|-----------|--|--------------|---------------|-------------------------|
| Profile Des | cription: (Describe t | o the dep | th needed to docu | iment th | e indica | tor or co | nfirm the | e absence o | f indicate | ors.) | |
| Depth | Matrix | - | Redo | x Featur | es | | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Te | exture | | Rema | rks |
| 0-16 | 10YR 3/2 | 90 | 10YR 5/8 | 10 | С | M | Loam | y/Clayey | Prom | inent redox | concentrations |
| | | <u> </u> | | | | | | | | | |
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| | | | | | | | , | | | | |
| 1 Type: C=C | oncontration D-Don | otion PM- | -Poducod Matrix M | IS-Mack | rod Sond | Graine | | ² Location: | DI – Doro | Lipipa M-M | otriv |
| Hydric Soil | Indicators: (Applica | ble to all I | RRs unless othe | rwise no | oted.) | Grains. | | Indicators | for Probl | ematic Hvd | ric Soils ^{3.} |
| Histosol | | | Thin Dark S | urface (S | (I RR | S. T. U) | | 1 cm M | uck (A9) | (I RR O) | |
| Histic F | ninedon (A2) | | Barrier Islan | ds 1 cm | Muck (S | 12) | | 2 cm M | uck (A10 | | |
| Black H | istic (A3) | | (MI RA 153B 153D) | | | | | Coast Prairie Redox (A16) | | | |
| Hydroge | en Sulfide (A4) | | Loamy Mucky Mineral (F1) (LRR O) | | | | | (outside MLRA 150A) | | | |
| Stratifie | d Layers (A5) | | Loamy Gleyed Matrix (F2) | | | | | Reduced Vertic (F18) | | | |
| Organic | Bodies (A6) (LRR P, | T, U) | Depleted Matrix (F3) | | | | | (outside MLRA 150A, 150B) | | | |
| 5 cm M | ucky Mineral (A7) (LR | R P, T, U) | X Redox Dark Surface (F6) | | | | | Piedmont Floodplain Soils (F19) (LRR P, T) | | | |
| Muck P | resence (A8) (LRR U) | | Depleted Dark Surface (F7) | | | | | Anomalous Bright Floodplain Soils (F20) | | | |
| 1 cm M | uck (A9) (LRR P, T) | | Redox Depr | essions (| (F8) | | | (MLR | A 153B) | | |
| Deplete | d Below Dark Surface | (A11) | Marl (F10) (I | LRR U) | | | | Red Pa | rent Mate | erial (F21) | |
| Thick D | ark Surface (A12) | | Depleted Oc | hric (F1 | 1) (MLRA | 151) | | Very Sł | nallow Da | rk Surface (F | -22) |
| Coast P | Prairie Redox (A16) (M | LRA 150A |) Iron-Mangar | nese Mas | sses (F12 | 2) (LRR O |), P, T) | (outs | ide MLR. | A 138, 152A | in FL, 154) |
| Sandy M | Mucky Mineral (S1) (L | RR O, S) | Umbric Surf | ace (F13 |) (LRR P | , T, U) | | Barrier | Islands L | ow Chroma I | Matrix (TS7) |
| Sandy (| Gleyed Matrix (S4) | | Delta Ochric | (F17) (| ILRA 15 | 1) | | (MLR | A 153B, | 153D) | |
| Sandy F | Redox (S5) | | Reduced Ve | rtic (F18 |) (MLRA | 150A, 15 | 0B) | Other (| Explain in | Remarks) | |
| Stripped | d Matrix (S6) | | Piedmont Fl | oodplain | Soils (F1 | 9) (MLR | A 149A) | | | | |
| Dark Su | urface (S7) (LRR P, S, | , T, U) | Anomalous | Bright Fl | oodplain | Soils (F2 | 0) | | | | |
| Polyvalu | ue Below Surface (S8) |) | (MLRA 14 | 9A, 153 | C, 153D) | | | ³ Indicat | ors of hyd | drophytic veg | etation and |
| (LRR | (LRR S, T, U) Very Shallow Dark Surface (F22) | | | | 22) | | wetla | and hydro | logy must be | e present, | |
| | | | (MLRA 13 | 8, 152A | in FL, 15 | 54) | | unles | ss disturb | ed or problei | matic. |
| Restrictive | Layer (if observed): | | | | | | | | | | |
| Type: | | | | | | | | | | | |
| Depth (i | inches): | | | | | | Hydri | c Soil Prese | ent? | Yes X | No |
| Remarks: | | | | | | | | | | | |
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| 1 | | | | | | | | | | | |

| U.S. Army WETLAND DETERMINATION DATA S See ERDC/EL TR-07-24; th | OMB Control #: 0710-: Requirement Control (Authority: AR 335-1; | xxxx, Exp: Pending Symbol EXEMPT: 5, paragraph 5-2a) | | | | |
|---|---|--|--|------------------------------|--|--|
| Project/Site: Terrebonne Parish Port Commi | ssion-West Bank Site | City/County: Terrebonne Pa | arishSamp | ling Date: <u>12/19/2023</u> | | |
| Applicant/Owner: Terrebonne Port Comm | ission | | State: LA Samp | ling Point: 2 | | |
| Investigator(s): Ronnie Duke, Gavin Pitre | Secti | ion, Township, Range: Sec | tion 12, T17S-R17E | | | |
| Landform (hillside, terrace, etc.): Field | Local re | elief (concave, convex, none | e): Convex S | Slope (%): 1 | | |
| Subregion (LRR or MLRA): LRR O | Lat: 29 33' 44.89" | Long: -90 4 | 1' 52.29" | Datum: NAD83 | | |
| Soil Map Unit Name: Fausse Clay, 0 to 1 per | cent slopes. frequently flooder | d | NWI classification: P | SS1 Ch | | |
| Are climatic / hydrologic conditions on the site | typical for this time of year? | Yes X M | | in Remarks) | | |
| Are Vegetation Soil or Hydrole | significantly disturb | ed? Are "Normal Circu | nstances" present? | Ves X No | | |
| Are Vegetation, coll, or Hydrold | agyadjunction | tic? (If nooded evolution | any answers in Romarks | \ \ | | |
| | | iic? (ii needed, explain | any answers in Remarks. | .) | | |
| SUMMARY OF FINDINGS – Attach | site map showing sam | pling point locations | , transects, importa | int features, etc. | | |
| Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? | /esNoXI /esX_No /esNo_X | Is the Sampled Area within a Wetland? | Yes No | <u>×</u> | | |
| Area has been experiencing drought. | | | | | | |
| HYDROLOGY | | | | | | |
| Wetland Hydrology Indicators: | | Sec | condary Indicators (minimu | um of two required) | | |
| Primary Indicators (minimum of one is require | ed; check all that apply) | | Surface Soil Cracks (B6) | | | |
| Surface Water (A1) | Aquatic Fauna (B13) | | Sparsely Vegetated Cond | cave Surface (B8) | | |
| High Water Table (A2) | Marl Deposits (B15) (LRF | R U) | Drainage Patterns (B10) | | | |
| Saturation (A3) | Hydrogen Sulfide Odor (C | C1) | Moss Trim Lines (B16) | (00) | | |
| Water Marks (B1) | OXIGIZED Rhizospheres of Presence of Reduced Iro | n Living Roots (C3) | Cravitish Burrows (C8) | (02) | | |
| Drift Deposits (B3) | Recent Iron Reduction in | Tilled Soils (C6) | Clayiish Burrows (Co) Saturation Visible on Aerial Imagery (C9) | | | |
| Algal Mat or Crust (B4) | Thin Muck Surface (C7) | | Geomorphic Position (D2) | | | |
| Iron Deposits (B5) | Other (Explain in Remark | s) | Shallow Aquitard (D3) | | | |
| Inundation Visible on Aerial Imagery (B7) | \ | | FAC-Neutral Test (D5) | | | |
| Water-Stained Leaves (B9) | | | Sphagnum Moss (D8) (L | RR T, U) | | |
| Field Observations: | | | | | | |
| Surface Water Present? Yes | No X Depth (inches): | | | | | |
| Water Table Present? Yes | No X Depth (inches): | | | | | |
| Saturation Present? Yes | No X Depth (inches): | Wetland Hydr | ology Present? | Yes <u>No X</u> | | |
| (includes capillary fringe) | | vious inspections) if availa | hle: | | | |
| | intoling well, dendi photos, pre | | | | | |
| | | | | | | |
| Remarks: | | | | | | |
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Sampling Point: 2

| Tree Stratum (Plot size:) | Absolute Dominant Indicator % Cover Species? Status | Dominance Test worksheet: |
|--|--|---|
| 1. | | Number of Dominant Species |
| 2. | | That Are OBL, FACW, or FAC: 0 (A) |
| 3. | | Total Number of Dominant |
| 4. | | Species Across All Strata: 1 (B) |
| 5. | | Percent of Dominant Species |
| 6. | | That Are OBL, FACW, or FAC: 0.0% (A/B) |
| | =Total Cover | Prevalence Index worksheet: |
| 50% of total cover: | 20% of total cover: | Total % Cover of: Multiply by: |
| Sapling Stratum (Plot size:) | | OBL species 0 x 1 = 0 |
| 1. | | FACW species $0 	 x^2 = 0$ |
| 2. | | FAC species $10 \times 3 = 30$ |
| 3. | | FACU species 80 x 4 = 320 |
| 4. | | UPL species 1 x 5 = 5 |
| 5. | | Column Totals: 91 (A) 355 (B) |
| 6. | | Prevalence Index = $B/A = 3.90$ |
| | =Total Cover | Hydrophytic Vegetation Indicators: |
| 50% of total cover: | 20% of total cover: | 1 - Rapid Test for Hydrophytic Vegetation |
| Shrub Stratum (Plot size:) | | 2 - Dominance Test is >50% |
| 1. | | 3 - Prevalence Index is ≤3.0 ¹ |
| 2 | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 3 | | |
| 4 | | |
| 5 | | 1 |
| 5 | | Indicators of hydric soil and wetland hydrology must |
| | -Total Cover | Definitions of Five Vegetation Strata: |
| 50% of total cover: | | |
| Herb Stratum (Plot size: 30) | | approximately 20 ft (6 m) or more in height and 3 in. |
| 1 Ovnodon dactulon | 80 Ves FACIL | (7.6 cm) or larger in diameter at breast height (DBH). |
| 2 Paspalum unvillai | | |
| 3 Symphyotrichum colentangianse | | approximately 20 ft (6 m) or more in height and less |
| | | than 3 in. (7.6 cm) DBH. |
| | | Shruh - Woody Plants, oveluding woody vines |
| 6 | | approximately 3 to 20 ft (1 to 6 m) in height. |
| 7. | | Harb All berbasseus (non woods) plants including |
| 8. | | herbaceous vines, regardless of size, and woody |
| 9. | | plants, except woody vines, less than approximately 3 |
| 10. | | ft (1 m) in height. |
| 11. | | Woody Vine – All woody vines, regardless of height. |
| | 91 =Total Cover | |
| 50% of total cover: 4 | 6 20% of total cover: 19 | |
| Woody Vine Stratum (Plot size: | | |
| <u> </u> | | |
| 2 | | |
| 3 | | |
| 4 | | |
| | | |
| · | -Total Cover | Hydrophytic |
| 50% of total cover: | 20% of total cover: | vegetation Present? Yes No X |
| Remarks: (If observed, list morphological adaptation | ns below.) | · |
| | | |

| SOIL | | | | | | | | Sa | ampling Point: | 2 |
|------------------------|--------------------------------|----------------|---------------------|---|-------------------|------------------|-------------------|--|------------------|----------------------|
| Profile Desc | cription: (Describe t | to the dept | h needed to docr | ument th | ne indica | tor or co | nfirm the abse | nce of indica | tors.) | |
| Depth | Matrix | | Rede | ox Featur | res | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | | Remarks | S |
| 0-16 | 10YR 4/1 | 90 | 10YR 5/8 | . 10 | C | M | Loamy/Clay | ey Pro | minent redox co | ncentrations |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | <u> </u> | | | | | | | | |
| ¹ Type: C=C | oncentration, D=Depl | letion, RM= | Reduced Matrix, N | √S=Masł | ked Sand | Grains. | ² Loca | ation: PL=Pore | e Lining, M=Matr | rix. |
| Hydric Soil | Indicators: (Applica | ble to all L | RRs, unless othe | erwise no | oted.) | | Indic | ators for Prob | olematic Hydric | Soils ³ : |
| Histosol | (A1) | | Thin Dark S | urface (S | 39) (LRR | S, T, U) | 1 | cm Muck (A9 |) (LRR O) | |
| Histic Er | pipedon (A2) | | Barrier Islan | ids 1 cm | Muck (S | 12) | 2 | 2 cm Muck (A10) (LRR S) | | |
| Black Hi | istic (A3) | | (MLRA 15 | — (MLRA 153B, 153D) | | | | Coast Prairie Redox (A16) | | |
| Hydroge | en Sulfide (A4) | | Loamy Muc | Loamy Mucky Mineral (F1) (LRR O) | | | | (outside MLRA 150A) | | |
| Stratifier | d Layers (A5) | | Loamy Gley | Loamy Gleyed Matrix (F2) | | | | Reduced Vertic (F18) | | |
| Organic | Bodies (A6) (LRR P, | , T, U) | X Depleted Ma | X Depleted Matrix (F3) | | | | (outside MLRA 150A, 150B) | | |
| 5 cm Mı | ucky Mineral (A7) (LR | R P, T, U) | Redox Dark | Redox Dark Surface (F6) | | | | Piedmont Floodplain Soils (F19) (LRR P, T) | | |
| Muck Pr | resence (A8) (LRR U) |) | Depleted Da | Depleted Dark Surface (F7) | | | | Anomalous Bright Floodplain Soils (F20) | | |
| 1 cm Mı | uck (A9) (LRR P, T) | | Redox Depr | Redox Depressions (F8) | | | | (MLRA 153B) | | |
| Depleter | d Below Dark Surface | ∋ (A11) | Marl (F10) (| Marl (F10) (LRR U) | | | | Red Parent Material (F21) | | |
| Thick D; | ark Surface (A12) | | Depleted Or | Depleted Ochric (F11) (MLRA 151) | | | | Very Shallow Dark Surface (F22) | | |
| Coast P | rairie Redox (A16) (M | ILRA 150A) |) Iron-Mangar | nese Mar | sses (F12 | 2) (LRR C |), P, T) | Γ) (outside MLRA 138, 152A in FL, 154) | | |
| Sandy N | /ucky Mineral (S1) (L ' | .RR O, S) | Umbric Surf | Umbric Surface (F13) (LRR P, T, U) | | | | Barrier Islands Low Chroma Matrix (TS7) | | |
| Sandy C | Gleyed Matrix (S4) | | Delta Ochric | Delta Ochric (F17) (MLRA 151) | | | | (MLRA 153B, 153D) | | |
| Sandy F | Redox (S5) | | Reduced Ve | Reduced Vertic (F18) (MLRA 150A, 150B) Othe | | | | | in Remarks) | |
| Stripped | Matrix (S6) | | Piedmont F | loodplain | Soils (F | 19) (MLR | A 149A) | · | | |
| Dark Su | urface (S7) (LRR P, S | , T, U) | Anomalous | Bright Fl | oodplain | Soils (F2 | .0) | | | |
| Polyvalu | ue Below Surface (S8) | ,) | (MLRA 14 | 49A, 153 | C, 153D) | , | 3 | Indicators of h | ydrophytic veget | tation and |
| (LRR | S, T, U) | | Very Shallo | Very Shallow Dark Surface (F22) | | | | wetland hydrology must be present, | | |
| - | ••• | | (MLRA 1: | 38, 152A | in FL, 1 | 54) | | unless distur | bed or problema | atic. |
| Restrictive | Layer (if observed): | | | | | | | | | |
| Type: | | | | | | | | | | |
| Depth (ir | nches): | | <u> </u> | | | | Hydric Soil | Present? | Yes X | No |
| Remarks: | | | | | | | | | | |
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| U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Pla See ERDC/EL TR-07-24; the proponent agency is CECW-CO-F | in Region (Authority: AR 335-15, paragraph 5-2a) |
|---|---|
| Project/Site: Terrebonne Parish Port Commission-West Bank Site City/County: T | errebonne Parish Sampling Date: 12/19/2023 |
| Applicant/Owner: Terrebonne Port Commission | State: LA Sampling Point: 3 |
| Investigator(s): Ronnie Duke, Gavin Pitre Section, Township, | Range: Section 12, T17S-R17E |
| Landform (hillside, terrace, etc.): Field Local relief (concave, | convex. none): concave Slope (%): 1 |
| Subregion (I RR or MI RA): LRR O Lat: 29.33' 43.22 | Long: -90 41' 46.80" Datum: NAD83 |
| Soil Map Unit Name: Fausse Clay, 0 to 1 percent slopes, frequently flooded | NWI classification: PSS1 Ch |
| Are climatic / hydrologic conditions on the site typical for this time of year? | X No (If no explain in Remarks) |
| Are Vegetation Soil or Hydrology significantly disturbed? Are * | |
| Are Vegetation, Soli, or Hydrologysignificantly disturbed? Are i | |
| Are vegetation, or Hydrologynaturally problematic? (if new | eded, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing sampling point | locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes No X | d Area and? Yes No X |
| Remarks: | |
| Area has been experiencing drought. | |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1) Aquatic Fauna (B13) | Sparsely Vegetated Concave Surface (B8) |
| High Water Table (A2) Marl Deposits (B15) (LRR U) | Drainage Patterns (B10) |
| Saturation (A3) Hydrogen Sulfide Odor (C1) | Moss Trim Lines (B16) |
| Sediment Deposits (B2) Presence of Reduced Iron (C4) | (C3) Div-Season Water Table (C2) Cravfish Burrows (C8) |
| Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C | 6) Saturation Visible on Aerial Imagery (C9) |
| Algal Mat or Crust (B4) Thin Muck Surface (C7) | Geomorphic Position (D2) |
| Iron Deposits (B5) Other (Explain in Remarks) | Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (B7) | FAC-Neutral Test (D5) |
| Water-Stained Leaves (B9) | Sphagnum Moss (D8) (LRR T, U) |
| Field Observations: | |
| Surface Water Present? Yes No X Depth (inches): | |
| Water Table Present? Yes No X Depth (inches): | Vetland Underlage Present? Ves No. V |
| Saturation Present? Yes No X Depth (incres): V | vetland Hydrology Present? fes No _X |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection | ons), if available: |
| | |
| | |
| Remarks: | |
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Sampling Point: 3

| Tree Stratum (Plot size:) | Absolute Dominant Indicato % Cover Species? Status | r Dominance Test worksheet: |
|--|---|---|
| 1. | | Number of Dominant Species |
| 2. | | That Are OBL, FACW, or FAC: 0 (A) |
| 3 | | Total Number of Dominant |
| 4 | | Species Across All Strata: 1(B) |
| 5 | | Percent of Dominant Species |
| 6 | | That Are OBL, FACW, or FAC:0.0% (A/B) |
| | =Total Cover | Prevalence Index worksheet: |
| 50% of total cover: | 20% of total cover: | Total % Cover of:Multiply by: |
| Sapling Stratum (Plot size:) | | OBL species x 1 =0 |
| 1 | | FACW species 0 x 2 = 0 |
| 2 | | FAC species 10 x 3 = 30 |
| 3 | | FACU species 40 x 4 = 160 |
| 4 | | UPL species 1 x 5 = 5 |
| 5 | | Column Totals: 51 (A) 195 (B) |
| 6 | | Prevalence Index = B/A = 3.82 |
| | =Total Cover | Hydrophytic Vegetation Indicators: |
| 50% of total cover: | 20% of total cover: | 1 - Rapid Test for Hydrophytic Vegetation |
| Shrub Stratum (Plot size:) | | 2 - Dominance Test is >50% |
| 1. | | 3 - Prevalence Index is ≤3.0 ¹ |
| 2. | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 3. | | - <u> </u> |
| 4. | | - |
| 5. | | — |
| 6 | | be present, unless disturbed or problematic. |
| | =Total Cover | Definitions of Five Vegetation Strata: |
| 50% of total cover | 20% of total cover: | |
| Herb Stratum (Plot size: 30) | | approximately 20 ft (6 m) or more in height and 3 in. |
| 1 Ovnodon dectylon | | (7.6 cm) or larger in diameter at breast height (DBH). |
| 2 Pospolum unvilloi | <u>10</u> No EAC | |
| 3 Symphyotrichum colentangiense | | Saping – woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less |
| 4. | | than 3 in. (7.6 cm) DBH. |
| 5. | | Shrub - Woody Plants, excluding woody vines. |
| 6. | | approximately 3 to 20 ft (1 to 6 m) in height. |
| 7. | | Herb – All herbaceous (non-woody) plants, including |
| 8. | | herbaceous vines, regardless of size, and woody |
| 9. | | plants, except woody vines, less than approximately 3 |
| 10. | | ft (1 m) in height. |
| 11. | | Woody Vine – All woody vines, regardless of height. |
| | 51 =Total Cover | - |
| 50% of total cover: 2 | 6 20% of total cover: 11 | |
| Woody Vine Stratum (Plot size: | <u> </u> | - |
| 1 | | |
| 2 | | - |
| 2 | | - |
| J | | - |
| 4 | | - |
| Э | | - Hydrophytic |
| | = I otal Cover | Vegetation |
| 50% of total cover: | 20% of total cover: | Present? Yes No _X |
| Remarks: (If observed, list morphological adaptation | ns below.) | |

SOIL

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) | | | | | | | | | | |
|---|-----------------------------|---------------------------|----------------------------|----------------------------------|-----------------|---|------------------------------------|--------------------------|---|--|
| Depth | Matrix | | Redo | ox Featur | res | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type' | Loc ² | Te | exture | Remarks | |
| 0-2 | 7.5YR 3/3 | 100 | | | | | Loam | y/Clayey | | |
| 2-11 | 10YR 4/2 | 90 | 10YR 5/8 | 10 | С | М | Loam | y/Clayey | Prominent redox concentrations | |
| 11-16 | N 5/ | 95 | 10YR 5/6 | 5 | С | PL/M | Loam | y/Clayey | Prominent redox concentrations | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | · | | | | | | | | |
| | | · | | | | | | | | |
| <u> </u> | | <u> </u> | | | | | | | | |
| ¹ Type: C=Co | ncentration, D=Depl | etion, RM= | Reduced Matrix, N | IS=Mask | ked Sand | Grains. | | ² Location: I | PL=Pore Lining, M=Matrix. | |
| Hydric Soil I | ndicators: (Applica | ble to all I | LRRs, unless othe | erwise n | oted.) | | | Indicators | for Problematic Hydric Soils ³ : | |
| Histosol (| (A1) | | Thin Dark S | urface (S | 69) (LRR | S, T, U) | | 1 cm M | luck (A9) (LRR O) | |
| Histic Ep | ipedon (A2) | | Barrier Islan | ds 1 cm | Muck (S | 12) | | 2 cm M | luck (A10) (LRR S) | |
| Black His | stic (A3) | | (MLRA 15 | 53B, 153 | D) | | | Coast F | Prairie Redox (A16) | |
| Hydroger | Hydrogen Sulfide (A4) | | | Loamy Mucky Mineral (F1) (LRR O) | | | | (outs | ide MLRA 150A) | |
| Stratified | Layers (A5) | | X Loamy Gleyed Matrix (F2) | | | | Reduced Vertic (F18) | | | |
| Organic I | Bodies (A6) (LRR P, | X Depleted Ma | atrix (F3) | | | (outside MLRA 150A, 150B) | | | | |
| 5 cm Mu | cky Mineral (A7) (LR | Redox Dark | Surface | (F6) | | Piedmont Floodplain Soils (F19) (LRR P, | | | | |
| Muck Pre | esence (A8) (LRR U) |) | Depleted Da | ark Surfa | ce (F7) | | | Anoma | lous Bright Floodplain Soils (F20) | |
| 1 cm Mu | ck (A9) (LRR P, T) | | Redox Depr | essions | (F8) | | | (MLR | RA 153B) | |
| Depleted | Below Dark Surface | Marl (F10) (LRR U) | | | | | Red Pa | arent Material (F21) | | |
| Thick Da | rk Surface (A12) | | Depleted Oc | chric (F1 | 1) (MLRA | A 151) | | Very Sł | hallow Dark Surface (F22) | |
| Coast Pra | airie Redox (A16) (M | ILRA 150A |) Iron-Mangar | nese Mas | sses (F12 | 2) (LRR (|), P, T) | (outs | ide MLRA 138, 152A in FL, 154) | |
| Sandy M | ucky Mineral (S1) (L | RR O, S) | Umbric Surf | ace (F13 | B) (LRR F | , T, U) | | Barrier | Islands Low Chroma Matrix (TS7) | |
| Sandy G | leved Matrix (S4) | | Delta Ochrid | (F17) (I | / N MLRA 15 | 1) | | (MLR | (A 153B. 153D) | |
| Sandy Re | edox (S5) | | Reduced Ve | ertic (F18 |) (MLRA | , 150A. 15 | 50B) | Other (| Explain in Remarks) | |
| Stripped | Matrix (S6) | | Piedmont Fl | oodplain | Soils (F | 19) (MLR | A 149A) | | | |
| Dark Sur | face (S7) (LRR P. S | . T. U) | Anomalous | Bright Fl | oodplain | Soils (F2 | 0) | | | |
| Polyvalue | Below Surface (S8 |)) | (MI RA 14 | I9A 153 | C. 153D) | |) | ³ Indicat | tors of hydrophytic vegetation and | |
| | S. T. U) |) | Very Shallov | w Dark S | urface (F | 22) | wetland bydrology must be present | | | |
| | , 1, 0) | | (MI RA 13 | 8 152A | in Fl 1 | 54) | weitand hydrology must be present, | | | |
| Restrictive I | aver (if observed). | | | , 102A | | ر د م | | unies | | |
| Туре: | | | | | | | | | | |
| Depth (in | ches): | | | | | | Hydri | c Soil Prese | ent? Yes <u>X</u> No | |
| Remarks: | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R | OMB Control #: 0710-xxxx, Exp: Pending Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a) |
|--|---|
| Project/Site: Terrebonne Parish Port Commission-West Bank Site City/County: Terrebonne P | arish Sampling Date: 12/19/2023 |
| Applicant/Owner: Terrebonne Port Commission | State: LA Sampling Point: 4 |
| Investigator(s): Ronnie Duke, Gavin Pitre Section, Township, Range: Se | |
| Landform (hillside, terrace, etc.): Field Local relief (concave, convex, none | e): Convex Slope (%): 1 |
| Subregion (LRR or MLRA): LRR O Lat: 29 33' 42.65" Long: -90 4 | 1' 51.42" Datum: NAD83 |
| Soil Map Unit Name: Fausse Clay, 0 to 1 percent slopes, frequently flooded | NWI classification: PSS1 Ch |
| Are climatic / hydrologic conditions on the site typical for this time of year? Yes X | No (If no explain in Remarks) |
| Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circu | mstances" present? Ves X No |
| Are Vegetation Soil or Hydrology naturally problematic? (If needed explain | any answers in Remarks) |
| | |
| SUMMARY OF FINDINGS – Attach site map showing sampling point locations | s, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes No X Is the Sampled Area | |
| Hydric Soil Present? Yes No X within a Wetland? | Yes NoX |
| Wetland Hydrology Present? Yes No X | |
| Area has been experiencing drought. | |
| HYDROLOGY | |
| Wetland Hydrology Indicators: See Primary Indicators (minimum of one is required; check all that apply) | condary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum Moss (D8) (LRR T, U) |
| Saturation Present? Yes No X Depth (inches): Wetland Hyd | rology Present? Yes <u>No X</u> |
| (Includes capillary fringe) | ble. |
| Describe recorded Data (stream gauge, monitoring weil, aenai photos, previous inspections), if availa | IVIE. |
| | |
| Remarks: | |

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Sampling Point: 4

| Tree Stratum (Plot size:) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|--|---------------------|----------------------|---------------------|--|
| 1. | | | | Number of Dominant Species |
| 2. | | | | That Are OBL, FACW, or FAC: 0 (A) |
| 3 | | | | Total Number of Dominant |
| 4 | | | | Species Across All Strata: 1 (B) |
| 5. | | | | Percent of Dominant Species |
| 6 | <u> </u> | Tatal Osuar | | That Are OBL, FACW, or FAC: 0.0% (A/B) |
| | | = I otal Cover | | Prevalence Index worksheet: |
| 50% of total cover: | 20% | of total cover: | | |
| <u>Sapling Stratum</u> (Plot size:) | | | | $OBL species 0 x^{2} = 0$ |
| · | | | | FAC species $0 \times 2 = 0$ |
| 2 | | | | FAC species 3 $x_3 = 15$ |
| 3 | | | | $\frac{1}{100} \text{ species} = \frac{1}{100} \text{ species} = \frac{1}$ |
| T | | | | Column Totals: $\frac{99}{(A)}$ $\frac{(A)}{392}$ (B) |
| | | | | $\frac{\text{Prevalence Index} - B/A - 3.96}{\text{Prevalence Index} - B/A - 3.96}$ |
| 0. | | -Total Cover | | Hydrophytic Vegetation Indicators: |
| 50% of total cover | 20% | of total cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Shruh Stratum (Plot size: | 2070 | | | 2 - Dominance Test is >50% |
| 1 | | | | $3 - $ Prevalence Index is $\leq 3.0^{1}$ |
| 2 | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | Indicators of hydric soil and wetland hydrology must |
| · | | =Total Cover | | Definitions of Five Vegetation Strata: |
| 50% of total cover | 20% | of total cover: | | Tree Weedy plants, excluding weedy vines |
| Herb Stratum (Plot size: 30) | | | | approximately 20 ft (6 m) or more in height and 3 in. |
| 1. Cynodon dactylon | 70 | Yes | FACU | (7.6 cm) or larger in diameter at breast height (DBH). |
| 2. Paspalum urvillei | 5 | No | FAC | Sapling – Woody plants, excluding woody vines |
| 3. Symphyotrichum oolentangiense | 1 | No | UPL | approximately 20 ft (6 m) or more in height and less |
| 4. Solidago altissima | 15 | No | FACU | than 3 in. (7.6 cm) DBH. |
| 5. Rubus trivialis | 8 | No | FACU | Shrub - Woody Plants, excluding woody vines, |
| 6. | | | | approximately 3 to 20 ft (1 to 6 m) in height. |
| 7 | | | | Herb – All herbaceous (non-woody) plants, including |
| 8 | | | | herbaceous vines, regardless of size, and woody |
| 9 | | | | plants, except woody vines, less than approximately 3 |
| 10 | | | | rt (1 m) in height. |
| 11 | | | | Woody Vine – All woody vines, regardless of height. |
| | 99 | =Total Cover | | |
| 50% of total cover: 50 | 0 20% | of total cover: | 20 | |
| Woody Vine Stratum (Plot size:) | | | | |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | Hydrophytic |
| | : | =Total Cover | | Vegetation |
| 50% of total cover: | 20% | of total cover: | | Present? Yes No X |
| Remarks: (If observed, list morphological adaptation | ns below.) | | | |

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SOIL

| SOIL | | | | | | | | S | ampling Poir | ıt: <u>4</u> | 4 |
|---|-------------------------------------|--------------|---------------------|------------------------------------|---|------------------------|---------------------------------------|-------------------------------------|---|----------------|--------|
| Profile Des | cription: (Describe t | o the dept | h needed to docu | ument th | ne indica | tor or co | nfirm the absenc | e of indica | ators.) | | |
| Depth | Matrix | | Redo | ox Featur | res | | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | | Rem | arks | |
| 0-16 | 10YR 3/2 | 98 | 10YR 5/8 | 2 | <u> </u> | <u>M</u> | Loamy/Clayey | Pro | ominent redo | < concentra | ations |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | _ | | | | | |
| ¹ Type: C=C | oncentration, D=Depl | etion, RM= | Reduced Matrix, N | IS=Mask | ked Sand | Grains. | ² Locatio | n: PL=Por | e Lining, M= | Matrix. | |
| Histosol Histic E | (A1) pipedon (A2) | Die to all L | Thin Dark S | urface (S ds 1 cm | 51ed.) 59) (LRR Muck (S ⁻ | S, T, U) 12) | 1 cr 2 cr | n Muck (As n Muck (As | (LRR O) (LRR S) | aric Solis" | : |
| Black H | Black Histic (A3) (MLRA 153B, 153D) | | | | | | Coa | Coast Prairie Redox (A16) | | | |
| Hydroge | en Sulfide (A4) | | Loamy Muc | ky Minera | al (F1) (L | RR O) | (o | (outside MLRA 150A) | | | |
| Stratified Layers (A5) Loamy Gleyed Matrix (F2) | | | | | x (F2) | | Rec | Reduced Vertic (F18) | | | |
| Organic | Bodies (A6) (LRR P, | T, U) | Depleted Ma | Depleted Matrix (F3) | | | | | (outside MLRA 150A, 150B) | | |
| 5 cm Mucky Mineral (A7) (LRR P, T, U) Redox Da | | | Redox Dark | Surface | (F6) | | dmont Floo | dplain Soils (| (F19) (LRR | P, T) | |
| Muck Pi | resence (A8) (LRR U) | | Depleted Da | ark Surfa | ce (F7) | | Anomalous Bright Floodplain Soils (F2 | | | | 20) |
| 1 cm Mu | uck (A9) (LRR P, T) | | Redox Depr | essions (| (F8) | | (N | (MLRA 153B) | | | |
| Deplete | d Below Dark Surface | (A11) | Marl (F10) (| LRR U) | | | Rec | Parent Ma | aterial (F21) | | |
| Thick Da | ark Surface (A12) | | Depleted Oc | chric (F1 | 1) (MLRA | 151) | Very Shallow Dark Surface (F22) | | | | |
| Coast P | rairie Redox (A16) (M | LRA 150A |) Iron-Mangar | nese Mas | sses (F12 | 2) (LRR O |), P, T) (a | (outside MLRA 138, 152A in FL, 154) | | | |
| Sandy N | /lucky Mineral (S1) (L | RR O, S) | Umbric Surf | Umbric Surface (F13) (LRR P, T, U) | | | | | Barrier Islands Low Chroma Matrix (TS7) | | |
| Sandy G | Bleyed Matrix (S4) | | Delta Ochric | elta Ochric (F17) (MLRA 151) (MLRA | | | | | | RA 153B, 153D) | |
| Sandy F | Redox (S5) | | Reduced Ve | ertic (F18 |) (MLRA | 150A, 15 | er (Explain | in Remarks) | | | |
| Stripped | I Matrix (S6) | | Piedmont Fl | oodplain | Soils (F | 9) (MLR | A 149A) | | | | |
| Dark Su | rface (S7) (LRR P, S, | , T, U) | Anomalous | Bright Flo | oodplain | Soils (F2 | D) | | | | |
| Polyvalu | e Below Surface (S8) |) | (MLRA 14 | (MLRA 149A, 153C, 153D) | | | | | ³ Indicators of hydrophytic vegetation and | | |
| (LRR | S, T, U) | | Very Shallov | w Dark S | urface (F | 22) | wetland hydrology must be present, | | | J | |
| | | | (IVILRA 1. | 58, 152A | IN FL, 1: | 94) | u | niess distu | rbea or probi | ematic. | |
| Restrictive Type: | Layer (if observed): | | | | | | | | | | |
| Depth (i | nches): | | | | | | Hydric Soil Pr | esent? | Yes | No | Х |
| Remarks: | | | | | | | | | | | |
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| U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R MB Control #: 0710-xxxx, Exp: Pending Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a) | | | | | | | |
|---|---------------------------------------|---|---|----------------------|--|--|--|
| Project/Site: Terrebonne Parish Port Comn Applicant/Owner: Terrebonne Port Com | arishSan State: LA San | npling Date: <u>12/19/2023</u> npling Point: 5 | | | | | |
| Investigator(s): Ronnie Duke, Gavin Pitre | Se | ction. Township. Range: Sec | | | | | |
| Landform (billside terrace etc.): Edge of [| Jitch Local | relief (concave, convex, none | a): Concave | Slone (%)· 1 | | | |
| | | | | | | | |
| | Lat. 29 33 30.02 | Long30 + | 1 04.17 | | | | |
| Soil Map Unit Name: Fausse Clay, U to 1 pe | ercent slopes, frequently flood | led | NVVI classification: | PSS1 Ch | | | |
| Are climatic / hydrologic conditions on the sit | e typical for this time of year? | ? Yes <u>X</u> | lo (If no, explai | n in Remarks.) | | | |
| Are Vegetation, Soil, or Hydro | ologysignificantly distu | Irbed? Are "Normal Circur | mstances" present? | Yes X No | | | |
| Are Vegetation, Soil, or Hydro | ology naturally problem | natic? (If needed, explain | any answers in Remark | (S.) | | | |
| SUMMARY OF FINDINGS – Attach | ا site map showing sa ا | mpling point locations | , transects, impor | tant features, etc. | | | |
| Hydrophytic Vegetation Present? | Yes <u>No X</u> | Is the Sampled Area | | | | | |
| Hydric Soil Present? | Yes No X | within a Wetland? | Yes No | <u>X</u> | | | |
| Wetland Hydrology Present? | Yes X No | | | | | | |
| Area has been experiencing drought. | | | | | | | |
| HYDROLOGY | | | | | | | |
| Wetland Hydrology Indicators: | · · · · · · · · · · · · · · · · · · · | Sec | condary Indicators (mini | mum of two required) | | | |
| Primary Indicators (minimum of one is requi | ired; check all that apply) | | _ Surrace Soil Cracks (B6) | | | | |
| Sufface Water (A1) | Aquatic Fauna (B15) | | Sparsely vegetated Co | oncave Surrace (Βο) | | | |
| Saturation (A3) | Hvdrogen Sulfide Odor | (C1) | Moss Trim Lines (B16) | ((| | | |
| Water Marks (B1) | Oxidized Rhizospheres | on Livina Roots (C3) | Drv-Season Water Tab | le (C2) | | | |
| Sediment Deposits (B2) | Presence of Reduced I | ron (C4) | Crayfish Burrows (C8) | | | | |
| Drift Deposits (B3) | Recent Iron Reduction | in Tilled Soils (C6) | Saturation Visible on Aerial Imagery (C9) | | | | |
| Algal Mat or Crust (B4) | Thin Muck Surface (C7 |) | Geomorphic Position (D2) | | | | |
| Iron Deposits (B5) | Other (Explain in Rema | arks) | Shallow Aquitard (D3) | | | | |
| Inundation Visible on Aerial Imagery (B | 7) | | FAC-Neutral Test (D5) | | | | |
| Water-Stained Leaves (B9) | | | Sphagnum Moss (D8) | (LRR T, U) | | | |
| Field Observations: | | | | | | | |
| Surface Water Present? Yes | No X Depth (inches) | | | | | | |
| Saturation Present? Yes | No X Depth (inches) | Wetland Hydu | ology Present? | Ves X No | | | |
| (includes capillary fringe) | | | ology i resent: | | | | |
| Describe Recorded Data (stream gauge, m | onitoring well, aerial photos, r | previous inspections), if availa | ble: | | | | |
| | | | | | | | |
| Remarks: | | | | | | | |
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| | | | | | | | |

Sampling Point: 5

| Tree Stratum (Plot size: | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|--|---|----------------------|---------------------|--|
| 1. | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | opooloor | | Number of Deminant Species |
| 2. | | | | That Are OBL, FACW, or FAC:(A) |
| 3 | | | | Total Number of Dominant |
| 4 | | | | Species Across All Strata: 2 (B) |
| 5 | | | | Percent of Dominant Species |
| 6 | | | | That Are OBL, FACW, or FAC: 50.0% (A/B) |
| | : | =Total Cover | | Prevalence Index worksheet: |
| 50% of total cover: | 20% | of total cover: | | Total % Cover of: Multiply by: |
| Sapling Stratum (Plot size:) | | | | OBL species 0 x 1 = 0 |
| 1 | | | | FACW species 0 x 2 = 0 |
| 2 | | | | FAC species x 3 =63 |
| 3 | | | | FACU species 70 x 4 = 280 |
| 4 | | | | UPL species <u>1</u> x 5 = <u>5</u> |
| 5 | | | | Column Totals: 92 (A) 348 (B) |
| 6 | | | | Prevalence Index = B/A =3.78 |
| | : | =Total Cover | | Hydrophytic Vegetation Indicators: |
| 50% of total cover: | 20% | of total cover: | | 1 - Rapid Test for Hydrophytic Vegetation |
| Shrub Stratum (Plot size:) | | | | 2 - Dominance Test is >50% |
| 1 | | | | 3 - Prevalence Index is ≤3.0 ¹ |
| 2. | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 3. | | | | |
| 4 | | | | |
| 5 | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 6. | | | | be present, unless disturbed or problematic. |
| | | =Total Cover | | Definitions of Five Vegetation Strata: |
| 50% of total cover: | 20% | of total cover: | | Tree – Woody plants, excluding woody vines, |
| Herb Stratum (Plot size: 30) | | | | approximately 20 ft (6 m) or more in height and 3 in. |
| 1. Cynodon dactylon | 70 | Yes | FACU | (7.6 cm) or larger in diameter at breast height (DBH). |
| 2. Paspalum urvillei | 20 | Yes | FAC | Sapling – Woody plants, excluding woody vines, |
| 3. Rumex crispus | 1 | No | FAC | approximately 20 ft (6 m) or more in height and less |
| 4. Symphyotrichum oolentangiense | 1 | No | UPL | than 3 in. (7.6 cm) DBH. |
| 5 | | | | Shrub - Woody Plants, excluding woody vines, |
| 6 | | | | approximately 3 to 20 ft (1 to 6 m) in height. |
| 7 | | | | Herb – All herbaceous (non-woody) plants, including |
| 8 | | | | herbaceous vines, regardless of size, and woody |
| 9 | | | | plants, except woody vines, less than approximately 3 ft (1 m) in height |
| 10 | | | | |
| 11 | | | | Woody Vine – All woody vines, regardless of height. |
| | 92 | =Total Cover | | |
| 50% of total cover: 4 | 6 20% | of total cover: | 19 | |
| Woody Vine Stratum (Plot size:) | | | | |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | Hydrophytic |
| | : | =Total Cover | | Vegetation |
| 50% of total cover: | 20% | of total cover: | | Present? Yes No X |
| Remarks: (If observed, list morphological adaptation | ns below.) | | | |

SOIL

| SOIL | | | | | | | | Sampling Point | t: <u>5</u> | | |
|---|-------------------------------|--------------|-------------------|----------------|-------------------|--|---------------------------------------|---|---------------------------|--|--|
| Profile Desc | ription: (Describe te | o the dept | h needed to docu | ument th | e indica | tor or co | nfirm the absence of | indicators.) | | | |
| Depth | Matrix | | Redo | x Featur | es | | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Rem | arks | | |
| 0-3 | 10YR 3/2 | 100 | | | | | | | | | |
| 3-16 | 10YR 3/2 | 99 | 10YR 5/8 | 1 | <u> </u> | <u>M</u> | Loamy/Clayey | concentrations | | | |
| | | | | _ | | _ | | | | | |
| | | | | | | _ | | | | | |
| ¹ Type: C=Co | oncentration, D=Deple | etion, RM= | Reduced Matrix, M | 1S=Mask | ked Sand | Grains. | ² Location: Pl | L=Pore Lining, M=N | Aatrix. | | |
| Hydric Soil | Indicators: (Applicat | ole to all L | RRs, unless othe | rwise n | oted.) | | Indicators for | or Problematic Hyd | dric Soils ³ : | | |
| Histosol | (A1) | | Thin Dark S | urface (S | 9) (LRR | S, T, U) | 1 cm Mu | ck (A9) (LRR O) | | | |
| Histic Ep | oipedon (A2) | | Barrier Islan | ds 1 cm | Muck (S | 12) | 2 cm Mu | ck (A10) (LRR S) | | | |
| Black Hi | stic (A3) | | (MLRA 15 | 3B, 153 | D) | | Coast Prairie Redox (A16) | | | | |
| Hydroge | n Sulfide (A4) | | Loamy Muck | ky Minera | al (F1) (L | RR O) | (outsic | (outside MLRA 150A) | | | |
| Stratified Layers (A5) Loamy Gleyed Matrix (F2) | | | | k (F2) | | Reduced | Reduced Vertic (F18) | | | | |
| Organic | Bodies (A6) (LRR P, | T, U) | Depleted Ma | atrix (F3) | | | (outsic | (outside MLRA 150A, 150B) | | | |
| 5 cm Mucky Mineral (A7) (LRR P, T, U) Redox Dark Surface (F6) | | | (F6) | | Piedmon | Piedmont Floodplain Soils (F19) (LRR P | | | | | |
| Muck Pr | esence (A8) (LRR U) | | Depleted Da | rk Surfa | ce (F7) | | Anomalo | Anomalous Bright Floodplain Soils (F20) | | | |
| 1 cm Mu | ıck (A9) (LRR P, T) | | Redox Depre | essions (| (F8) | | (MLRA 153B) | | | | |
| Depleted | d Below Dark Surface | (A11) | Marl (F10) (I | LRR U) | | | Red Parent Material (F21) | | | | |
| Thick Da | ark Surface (A12) | | Depleted Oc | hric (F1 | 1) (MLRA | 151) | Very Shallow Dark Surface (F22) | | | | |
| Coast Pr | rairie Redox (A16) (M | LRA 150A) | Iron-Mangar | nese Mas | sses (F12 | 2) (LRR O |), P, T) (outsic | de MLRA 138, 152 | ۱ in FL, 154) | | |
| Sandy M | lucky Mineral (S1) (Lf | RR O, S) | Umbric Surfa | ace (F13 |) (LRR P | ', T, U) | Barrier Is | Barrier Islands Low Chroma Matrix (TS7) | | | |
| Sandy G | eleyed Matrix (S4) | | Delta Ochric | (F17) (| ILRA 15 | 1) | (MLRA | | | | |
| Sandy R | edox (S5) | | Reduced Ve | rtic (F18 |) (MLRA | 150A, 15 | 0B) Other (Explain in Remarks) | | | | |
| Stripped | Matrix (S6) | | Piedmont Fl | oodplain | Soils (F | 19) (MLR | A 149A) | | | | |
| Dark Su | rface (S7) (LRR P, S, | T, U) | Anomalous | Bright Fl | oodplain | Soils (F20 | 0) | | | | |
| Polyvalu | e Below Surface (S8) | | (MLRA 14 | 9A, 153 | C, 153D) | | ³ Indicato | ³ Indicators of hydrophytic vegetation and | | | |
| (LRR : | S, T, U) | | Very Shallow | v Dark S | urface (F | 22) | wetlan | d hydrology must b | e present, | | |
| | | | (MLRA 13 | 8, 152A | in FL, 1 | 54) | unless | disturbed or proble | ematic. | | |
| Restrictive I | Layer (if observed): | | | | | | | | | | |
| Type: | | | | | | | | | | | |
| Depth (ir | nches): | | | | | | Hydric Soil Presen | t? Yes | NoX | | |
| Remarks: | | | | | | | | | | | |

| U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf See ERDC/EL TR-07-24; the proponent agency is (| Coastal Plain RegionOMB Control #: 0710-xxxx, Exp: Pending Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a) |
|--|--|
| Project/Site: Terrebonne Parish Port Commission-West Bank Site | City/County: Terrebonne Parish Sampling Date: 12/19/2023 |
| Applicant/Owner: Terrebonne Port Commission | State: LA Sampling Point: 6 |
| Investigator(s): Ronnie Duke, Gavin Pitre Sect | ion, Township, Range: Section 12, T17S-R17E |
| Landform (hillside, terrace, etc.): Field Local re | elief (concave, convex, none): Convex Slope (%): 1 |
| Subregion (LRR or MLRA): LRR O Lat: 29 33' 56.78" | Long: -90 41' 49.23" Datum: NAD83 |
| Soil Map Unit Name: Fausse Clay, 0 to 1 percent slopes, frequently floode | NWI classification: PSS1 Ch |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Ves X No (If no evolution in Remarks) |
| Are Vegetation Soil or Hydrology cignificantly disturb | ad2 Are "Normal Circumstances" present? Voc. X No |
| Are Vegetation, on, or hydrologysignificantly distort | |
| Are vegetation, Soli, or Hydrologynaturally problema | (if needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing sam | pling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes No X | is the Sampled Area within a Wetland? Yes <u>No X</u> |
| Remarks: Area has been experiencing drought. | |
| HYDROLOGY | |
| Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B13) High Water Table (A2) Marl Deposits (B15) (LRI Saturation (A3) Hydrogen Sulfide Odor (0 Water Marks (B1) Oxidized Rhizospheres of Sediment Deposits (B2) Presence of Reduced Iro Drift Deposits (B3) Recent Iron Reduction in Algal Mat or Crust (B4) Thin Muck Surface (C7) Iron Deposits (B5) Other (Explain in Remark) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): | Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Orainage Patterns (B10) C1) Moss Trim Lines (B16) n Living Roots (C3) Dry-Season Water Table (C2) n (C4) Crayfish Burrows (C8) Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum Moss (D8) (LRR T, U) Wetland Hydrology Present? Yes No _X |
| (Includes capillary fringe) | avious inspections) if available: |
| Seconde Recorded Data (Stream gauge, monitoring well, achai photos, ph | |
| | |
| Remarks: | |

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Sampling Point: 6

| Tree Stratum (Plot size:) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|--|---------------------|----------------------|---------------------|--|
| 1 | | | | Number of Dominant Species |
| 2. | | | | That Are OBL, FACW, or FAC: 0 (A) |
| 3 | | | | Total Number of Dominant |
| 4 | | | | Species Across All Strata: 1 (B) |
| 5 | | | | Percent of Dominant Species |
| 6 | <u> </u> | Tatal Oscar | | That Are OBL, FACW, or FAC: 0.0% (A/B) |
| E0% of total onver | 20% | = I otal Cover | | Total % Cover of: |
| Sapling Stratum (Plot size: | 20% | or total cover. | | |
| | | | | A = 0 |
| 2 | | | | FAC species 15 $x_3 = 45$ |
| 3 | | | | FACU species 75 $x 4 = 300$ |
| 4 | | | | $\frac{11}{12} = \frac{10}{12} = 10$ |
| 5. | | | | Column Totals: 100 (A) 395 (B) |
| 6. | | | | Prevalence Index = $B/A = 3.95$ |
| | | =Total Cover | | Hydrophytic Vegetation Indicators: |
| 50% of total cover: | 20% | of total cover: | | 1 - Rapid Test for Hydrophytic Vegetation |
| Shrub Stratum (Plot size:) | | | | 2 - Dominance Test is >50% |
| 1. | | | | 3 - Prevalence Index is ≤3.0 ¹ |
| 2. | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 6. | | | | be present, unless disturbed or problematic. |
| | : | =Total Cover | | Definitions of Five Vegetation Strata: |
| 50% of total cover: | 20% | of total cover: | | Tree – Woody plants, excluding woody vines, |
| Herb Stratum (Plot size: 30) | | | | approximately 20 ft (6 m) or more in height and 3 in. |
| 1. Cynodon dactylon | 70 | Yes | FACU | (7.6 cm) of larger in diameter at breast height (DBH). |
| 2. Paspalum urvillei | 10 | No | FAC | Sapling – Woody plants, excluding woody vines, |
| 3. Rumex crispus | 5 | No | FAC | approximately 20 ft (6 m) or more in height and less than 3 in (7.6 cm) DBH |
| 4. Symphyotrichum oolentangiense | 10 | No | UPL | |
| Solidago altissima 6. | 5 | No | FACU | Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. |
| 7. | | | | Herb – All herbaceous (non-woody) plants including |
| 8. | | | | herbaceous vines, regardless of size, <u>and</u> woody |
| 9. | | | | plants, except woody vines, less than approximately 3 |
| 10. | | | | ft (1 m) in neight. |
| 11 | | | . <u> </u> | Woody Vine – All woody vines, regardless of height. |
| | 100 | =Total Cover | | |
| 50% of total cover: 50 | 0 20% | of total cover: | 20 | |
| Woody Vine Stratum (Plot size:) | | | | |
| 1 | | | | |
| 2. | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | Hydrophytic |
| | | =Total Cover | | Vegetation |
| 50% of total cover: | 20% | of total cover: | | Present? Yes <u>No X</u> |
| Remarks: (If observed, list morphological adaptation | ns below.) | | | |
SOIL

| SOIL | | | | | | | | | San | npling Point: | 6 | | |
|-----------------------------------|---|---------------|------------------------|---|------------------------------------|---------------------------------|---|------------------------|---|----------------------------|----------------------------|--|--|
| Profile Desc | cription: (Describe t | o the dep | th needed to docu | iment th | e indica | tor or co | onfirm the | absence o | of indicato | ors.) | | | |
| Depth | Matrix | | Redo | x Featur | es | | | | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Те | kture | | Remarks | | | |
| 0-16 | 10YR 3/1 | 95 | 10YR 5/8 | 5 | С | М | Loamy/Clayey Prominent redox concentr | | | centrations | | | |
| | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |
| | oncontration D-Dopl | otion PM | -Roducod Matrix M | -Mack | rod Sond | Grains | | ² Location: | PI – Poro I | ining M-Matri | v | | |
| Hydric Soil | Indicators: (Applica | ble to all | Reduced Matrix, N | rwise no | oted.) | Grains. | | Indicators | for Proble | ematic Hvdric | x. Soils ³ : | | |
| Histosol | (A1) | | Thin Dark Su | urface (S | 69) (LRR | S, T, U) | | 1 cm N | 1uck (A9) (| (LRR O) | | | |
| Histic Ep | pipedon (A2) | Barrier Islan | ds 1 cm | Muck (S | 12) | • | 2 cm N | 1uck (A10) | (LRR S) | | | | |
| Black Hi | istic (A3) | (MLRA 15 | (MLRA 153B, 153D) | | | | | | Coast Prairie Redox (A16) | | | | |
| Hydroge | en Sulfide (A4) | Loamy Muck | y Minera | al (F1) (L | RR O) | • | (outside MLRA 150A) | | | | | | |
| Stratifie | d Layers (A5) | Loamy Gleye | ed Matrix | k (F2) | | - | Reduced Vertic (F18) | | | | | | |
| Organic Bodies (A6) (LRR P, T, U) | | | Depleted Ma | atrix (F3) | | | | (outs | side MLRA | A 150A, 150B) | | | |
| 5 cm Mu | 5 cm Mucky Mineral (A7) (LRR P, T, U) | | | Surface | (F6) | | - | Piedmo | ont Floodp | lain Soils (F19) | (LRR P, T) | | |
| Muck Pr | resence (A8) (LRR U) | | Depleted Da | Depleted Dark Surface (F7) | | | | | Anomalous Bright Floodplain Soils (F20) | | | | |
| 1 cm Mu | uck (A9) (LRR P, T) | | Redox Depressions (F8) | | | | | (MLRA 153B) | | | | | |
| Deplete | d Below Dark Surface | (A11) | Marl (F10) (I | Marl (F10) (LRR U) | | | | | Red Parent Material (F21) | | | | |
| Thick Da | ark Surface (A12) | | Depleted Oc | 151) | - | Very Shallow Dark Surface (F22) | | | | | | | |
| Coast P | rairie Redox (A16) (M | LRA 150A | A) Iron-Mangar | Iron-Manganese Masses (F12) (LRR O, P, T) | | | | | (outside MLRA 138, 152A in FL, 154) | | | | |
| Sandy N | /lucky Mineral (S1) (L | RR O, S) | Umbric Surfa | 5) (LRR P | , T, U) | - | Barrier Islands Low Chroma Matrix (TS7) | | | | | | |
| Sandy G | Gleyed Matrix (S4) | | Delta Ochric | Delta Ochric (F17) (MLRA 151) | | | | | (MLRA 153B, 153D) | | | | |
| Sandy F | Redox (S5) | | Reduced Ve | Reduced Vertic (F18) (MLRA 150A, 150B) | | | | | | Other (Explain in Remarks) | | | |
| Stripped | d Matrix (S6) | | Piedmont Fl | oodplain | Soils (F1 | 19) (MLR | A 149A) | | | | | | |
| Dark Su | irface (S7) (LRR P, S | T, U) | Anomalous I | Bright Flo | oodplain | Soils (F2 | :0) | 2 | | | | | |
| Polyvalu | ue Below Surface (S8) | | (MLRA 14 | 9A, 1530 | C, 153D) | | ³ Indicators of hydrophytic vegetation and | | | | ation and | | |
| (LRR | (LRR S, T, U) Very Shallow Dark Surface (F22) | | | 22) | wetland hydrology must be present, | | | | esent, | | | | |
| | | | (MLRA 13 | 8, 152A | in FL, 1 | 54) | | unle | ss disturbe | ed or problemat | tic. | | |
| Restrictive | Layer (if observed): | | | | | | | | | | | | |
| Type: | | | | | | | | | | | | | |
| Depth (i | nches): | | | | | | Hydric | Soil Prese | ent? | Yes X | No | | |
| Remarks: | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R | OMB Control #: 0710-xxxx, Exp: Pending Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a) |
|--|---|
| Project/Site: Terrebonne Parish Port Commission-West Bank Site City/County: Terrebonne Pa | rish Sampling Date: <u>12/19/2023</u> |
| Applicant/Owner: Terrebonne Port Commission | State: LA Sampling Point: 7 |
| Investigator(s): Ronnie Duke, Gavin Pitre Section, Township, Range: Sec | |
| Landform (hillside, terrace, etc.): Field Local relief (concave, convex, none |): Concave Slope (%): 1 |
| Subregion (LRR or MLRA): LRR O Lat: 29 33' 55.67" Long: -90 41 | 52.46" Datum: NAD83 |
| Soil Map Unit Name: Fausse Clay, 0 to 1 percent slopes, frequently flooded | NWI classification: PSS1 Ch |
| Are climatic / hydrologic conditions on the site typical for this time of year? | (If no explain in Remarks) |
| Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circum | estances" procent? Ves X No |
| Are Vegetation, Soli, or Hydrologysignificantly disturbed? Are Normal Circum | |
| Are vegetation, Soil, or Hydrologynaturally problematic? (If needed, explain | any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing sampling point locations | , transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes No X | Yes NoX |
| Remarks: Area has been experiencing drought. | |
| HYDROLOGY | |
| Wetland Hydrology Indicators: Sec Primary Indicators (minimum of one is required; check all that apply) | ondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum Moss (D8) (LRR T, U) |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if availab | ble: |
| | |
| Remarks: | |

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Sampling Point: 7

| Tree Stratum (Plot size:) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|----------------------------------|---------------------|----------------------|---------------------|--|
| 1. | | | | Number of Dominant Species |
| 2. | | | | That Are OBL, FACW, or FAC:(A) |
| 3 | | | | Total Number of Dominant |
| 4 | | | | Species Across All Strata: 2 (B) |
| 5 | | | | Percent of Dominant Species |
| 6 | | | | That Are OBL, FACW, or FAC: 50.0% (A/B) |
| 500/ / / / | | =Total Cover | | Prevalence Index worksheet: |
| 50% of total cover: | 20% | of total cover: | | OBL species 0 |
| Sapling Stratum (Plot size:) | | | | $\frac{OBL species}{O} = \frac{O}{x^2} = \frac{O}{x^2}$ |
| · | | | | FAC species 0 $x^2 = 0$ |
| 2 | | | | FAC species 21 $x_3 = 03$ |
| 3 | | | | $\begin{array}{c} \text{FACO species} \\ \text{IPL species} \\ \hline \\ 5 \\ \text{VS} = 25 \\ \hline \\ 25 \\ \hline \\ 74 \\ \hline \\ 75 \\ \hline $ |
| 5 | | | | Column Totals: 100 (A) 384 (B) |
| 6 | | | | $\frac{1}{2} \frac{1}{2} \frac{1}$ |
| · | | =Total Cover | | Hydrophytic Vegetation Indicators: |
| 50% of total cover: | 20% | of total cover: | | 1 - Rapid Test for Hydrophytic Vegetation |
| Shrub Stratum (Plot size:) | | | | 2 - Dominance Test is >50% |
| <u> </u> | | | | 3 - Prevalence Index is ≤ 3.01 |
| 2. | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 6. | | | | be present, unless disturbed or problematic. |
| | | =Total Cover | | Definitions of Five Vegetation Strata: |
| 50% of total cover: | 20% | of total cover: | | Tree – Woody plants, excluding woody vines, |
| Herb Stratum (Plot size: 30) | | | | approximately 20 ft (6 m) or more in height and 3 in. |
| 1. Cynodon dactylon | 68 | Yes | FACU | |
| 2. Solidago altissima | 5 | No | FACU | Sapling – Woody plants, excluding woody vines, |
| 3. Paspalum urvillei | 20 | Yes | FAC | than 3 in. (7.6 cm) DBH. |
| 4. Symphyotrichum oolentangiense | 5 | <u>No</u> | | O handa Marada Dharta analadia ana daritara |
| 5. Eupatorium capillifolium | 1 | <u>No</u> | FACU | Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. |
| | <u> </u> | | FAC | |
| / | | <u> </u> | | Herb – All herbaceous (non-woody) plants, including |
| 9 | | | | plants, except woody vines, less than approximately 3 |
| 10 | | | | ft (1 m) in height. |
| 11. | | | | Woody Vine – All woody vines, regardless of height. |
| | 100 | =Total Cover | | |
| 50% of total cover: 5 | 0 20% | of total cover: | 20 | |
| Woody Vine Stratum (Plot size: | | | | |
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | Hydrophytic |
| | | =Total Cover | | Vegetation |
| 50% of total cover: | 20% | of total covor: | | Prosent? Vos No V |
| | 2070 | | | |

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| SOIL | | | | | | | | | Sa | mpling Point: | 7 |
|---|---|--|---|---|---|--|---|--|--|--|--|
| Profile Desc | cription: (Describe t | o the dep | th needed to docu | ument th | e indica | or or co | nfirm the a | absence of | indica | tors.) | |
| Depth | Matrix | | Redo | x Featur | es | | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Text | ure | | Rema | rks |
| 0-16 | 10YR 3/2 | 70 | 10YR 5/8 | 30 | C | <u>M</u> | Loamy/ | Clayey | Prominent redox concentrations | | |
| | | | | _ | _ | | | | | | |
| | | | | | | | | | | | |
| | | : | | _ | | | | · | | | |
| 'Type: C=Co | oncentration, D=Depl | etion, RM= | Reduced Matrix, M | IS=Mask | ed Sand | Grains. | 2 | Location: P | L=Pore | Lining, M=Ma | atrix. |
| Histosol Histosol Histic Ep Black Hi Hydroge Stratified Organic 5 cm Mu Muck Pr 1 cm Mu Depleted Thick Da Coast Pr Sandy M Sandy R Sandy R Sandy R Dark Su Polyvalu (LRR | (A1) pipedon (A2) stic (A3) an Sulfide (A4) d Layers (A5) Bodies (A6) (LRR P, ucky Mineral (A7) (LR esence (A8) (LRR U) uck (A9) (LRR P, T) d Below Dark Surface ark Surface (A12) rairie Redox (A16) (M fucky Mineral (S1) (L Beyed Matrix (S4) Redox (S5) Matrix (S6) rface (S7) (LRR P, S, the Below Surface (S8) S, T, U) | T, U) R P, T, U) (A11) LRA 150A RR O, S) | Thin Dark S Barrier Islan (MLRA 15 Loamy Mucl Loamy Gley Depleted Ma X Redox Dark Depleted Da Redox Depre Marl (F10) (I Depleted Oc Iron-Mangar Umbric Surf Delta Ochric Reduced Ve Piedmont FI Anomalous (MLRA 14 Very Shallov (MLRA 13 | urface (S ds 1 cm 3B, 153 (sy Minera ed Matrix atrix (F3) Surface rrk Surface erssions (LRR U) chric (F11 hese Mas ace (F13) (IN rtic (F18 oodplain Bright Fla 9A, 153 (v Dark S (8, 152A | (F6) (F6) (F6) (F6) (F7) (F8) (F8) (MLRA (F12) (MLRA) (MLRA (F12) (MLRA) (ML | S, T, U) 2) RR O) (LRR O) (LRR O , T, U) 150A, 15 9) (MLR/ Soils (F2(22) 4) | •, P, T) • • • • • • • • • • • • • | 1 cm Mu 2 cm Mu Coast Pr (outsid Reduced Piedmor Anomald (MLRA Red Par Very Sha (outsid Barrier Is (MLRA Other (E 3)Indicato wetlar unless | ick (A9) ick (A10 rairie R de MLF d Vertic de MLF fut Flood bus Brig A 153B ent Mat allow D de MLF slands I A 153B, ixplain i prs of hy nd hydre s distur | (LRR O) (LRR S) edox (A16) (A 150A) (F18) (F18) (F18) (F18) (F18) (F18) (F18) (F100dplain (F21) ark Surface (F (F21) ark Surface (F (F)) (F)) (F) (F) (F) (F) (F) (F) (F) | B) 19) (LRR P, T) Soils (F20) F22) in FL, 154) Matrix (TS7) letation and present, natic. |
| Type: Depth (ir Remarks: | nches): | | | | | | Hydric | Soil Preser | nt? | Yes <u>X</u> | No |
| | | | | | | | | | | | |

| U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R | OMB Control #: 0710-xxxx, Exp: Pending Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a) |
|--|---|
| Project/Site: Terrebonne Parish Port Commission-West Bank Site City/County: Terrebonne Pa | arish Sampling Date: 12/19/2023 |
| Applicant/Owner: Terrebonne Port Commission | State: LA Sampling Point: 8 |
| Investigator(s): Ronnie Duke, Gavin Pitre Section, Township, Range: Sec | tion 12, T17S-R17E |
| Landform (hillside, terrace, etc.); Field Local relief (concave, convex, none |): Convex Slope (%): 1 |
| Subregion (I RR or MI RA): I RR O Lat: 29.33' 51.95" Long: -90.41 | ' 49.35" Datum: NAD83 |
| Soil Man Unit Name: Fausse Clay, 0 to 1 percent slopes, frequently flooded | NWL classification: PSS1 Ch |
| Are elimetic (hydrologic conditions on the site typical for this time of year? | |
| Are climatic / hydrologic conditions on the site typical for this time of year? Yes \underline{X} is | (ir no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrologysignificantly disturbed? Are "Normal Circun | nstances" present? Yes X No |
| Are Vegetation, Soil, or Hydrologynaturally problematic? (If needed, explain | any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing sampling point locations | , transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes No X | Yes No_X |
| Remarks: Area has been experiencing drought. | |
| HYDROLOGY | |
| Wetland Hydrology Indicators: Sec Primary Indicators (minimum of one is required; check all that apply) | ondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum Moss (D8) (LRR T, U) |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if availab | ble: |
| | |
| | |
| Remarks: | |

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Sampling Point: 8

| Tree Stratum (Plot size:) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|--|---------------------|----------------------|---------------------|--|
| 1 2. | | · | | Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A) |
| 3. | | | | Total Number of Dominant |
| 4. | | | | Species Across All Strata: 1 (B) |
| 5. | | | | Percent of Dominant Species |
| 6 | | | | That Are OBL, FACW, or FAC: 0.0% (A/B) |
| | : | =Total Cover | | Prevalence Index worksheet: |
| 50% of total cover: | 20% | of total cover: | | Total % Cover of: Multiply by: |
| Sapling Stratum (Plot size:) | | | | OBL species x 1 = |
| 1 | | | · | FACW species 0 $x 2 = 0$ |
| 2. | | | | FAC species 24 x 3 = 72 |
| 3. | | | | FACU species 75 $x 4 = 300$ |
| 4. | | | | $\begin{array}{c} \text{UPL species} 1 x \ 5 = 5 \\ \text{Old } x \ 5 \\ $ |
| 5. | | | | Column Totals: 100 (A) 377 (B) |
| 6. | | Tatal Osum | | Prevalence index = $B/A = 3.77$ |
| | | = I otal Cover | | Hydrophytic Vegetation Indicators: |
| Subsub Strature (Plat size) | 20% | of total cover: | | 1 - Rapid Test for Hydrophytic Vegetation |
| | | | | 2 - Dominance Test is >50% |
| · | | | | 3 - Prevalence index is ≤3.0 |
| 2. | | | | Problematic Hydrophytic Vegetation (Explain) |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 0. | | -Total Covor | | Definitions of Five Vegetation Strata: |
| 50% of total cover | 20% | of total cover: | | |
| Herb Stratum (Plot size: 30) | 2070 | | | approximately 20 ft (6 m) or more in height and 3 in. |
| 1 Cynodon dactylon | 70 | Yes | FACU | (7.6 cm) or larger in diameter at breast height (DBH). |
| 2. Solidago altissima | 5 | <u></u> No | FACU | Sapling – Woody plants, excluding woody vines |
| 3. Paspalum urvillei | 8 | No | FAC | approximately 20 ft (6 m) or more in height and less |
| 4. Symphyotrichum oolentangiense | 1 | No | UPL | than 3 in. (7.6 cm) DBH. |
| 5. Rumex crispus | 15 | No | FAC | Shrub - Woody Plants, excluding woody vines, |
| 6. Plantago major | 1 | No | FAC | approximately 3 to 20 ft (1 to 6 m) in height. |
| 7. | | | | Herb – All herbaceous (non-woody) plants, including |
| 8. | | | | herbaceous vines, regardless of size, and woody |
| 9. | | | | plants, except woody vines, less than approximately 3 |
| 10. | | | | ft (1 m) in height. |
| 11. | | | | Woody Vine – All woody vines, regardless of height. |
| | 100 : | =Total Cover | | |
| 50% of total cover: 5 | 0 20% | of total cover: | 20 | |
| Woody Vine Stratum (Plot size:) | | | | |
| 1 | | | | |
| 2. | | | | |
| 3. | | | | |
| 4 | | | | |
| 5 | | | | Hydrophytic |
| | : | =Total Cover | _ | Vegetation |
| 50% of total cover: | 20% | of total cover: | | Present? Yes No _X |
| Remarks: (If observed, list morphological adaptation | holow) | | | |

SOIL

| | | | | | | | | | Camping Fom | ι. <u></u> | | |
|-----------------------------------|--|---------------|-----------------------------|---|-------------------|-------------------------|---------------------------------|--|--|---------------------------|--|--|
| Profile Desc | ription: (Describe t | o the dep | th needed to docι | ment th | ne indica | tor or co | nfirm the | e absence of | indicators.) | | | |
| Depth | Matrix | | Redo | x Featu | res | | | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Te | exture | ure Remarks | | | |
| 0-10 | 10YR 3/2 | 100 | | | | | Loam | y/Clayey | | | | |
| 10-16 | 10YR 5/1 | 95 | 10YR 5/8 | 5 | С | М | Loam | y/Clayey | Prominent redox | concentrations | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| ¹ Type: C=Co | ncentration. D=Depl | etion. RM= | Reduced Matrix. N | S=Masł | ked Sand | Grains. | | ² Location: F | PL=Pore Lining. M=N | Aatrix. | | |
| Hydric Soil I | ndicators: (Applica | ble to all I | RRs, unless othe | rwise n | oted.) | | | Indicators f | or Problematic Hyd | dric Soils ³ : | | |
| Histosol | (A1) | | Thin Dark St | urface (S | 69) (LRR | S, T, U) | | 1 cm Muck (A9) (LRR O) | | | | |
| Histic Ep | ipedon (A2) | Barrier Islan | ds 1 cm | Muck (S | 12) | 2 cm Muck (A10) (LRR S) | | | | | | |
| Black His | stic (A3) | (MLRA 15 | 3B, 153 | D) | | | Coast P | rairie Redox (A16) | | | | |
| Hydroger | n Sulfide (A4) | Loamy Muck | y Miner | al (F1) (L | RR O) | | (outsi | de MLRA 150A) | | | | |
| Stratified Layers (A5) | | | Loamy Gleye | ed Matriz | x (F2) | | | Reduce | d Vertic (F18) | | | |
| Organic Bodies (A6) (LRR P. T. U) | | | X Depleted Ma | trix (F3) | | | | (outsi | de MLRA 150A, 15 | 0B) | | |
| 5 cm Mu | cky Mineral (A7) (LR | R P, T, U) | Redox Dark | Redox Dark Surface (F6) Depleted Dark Surface (F7) | | | | | Piedmont Floodplain Soils (F19) (LRR P, T) Anomalous Bright Floodplain Soils (F20) | | | |
| Muck Pre | esence (A8) (LRR U) | | Depleted Da | | | | | | | | | |
| 1 cm Mu | ck (A9) (LRR P. T) | | Redox Depre | essions | (F8) | | (MLRA 153B) | | | | | |
| X Depleted | Below Dark Surface | (A11) | Marl (F10) (I | RR U) | (-) | | Red Parent Material (F21) | | | | | |
| Thick Da | rk Surface (A12) | () | Depleted Oc | hric (F1 | 1) (MLRA | (151) | Very Shallow Dark Surface (F22) | | | | | |
| Coast Pr | airie Redox (A16) (M | LRA 150A |) Iron-Mangar | ese Ma | sses (F12 |) (LRR O |), P, T) | (outside MLRA 138. 152A in FL. 154) | | | | |
| Sandy M | ucky Mineral (S1) (L | RR O. S) | Umbric Surf | ace (F13 | 8) (I RR P | . T. U) | ,.,. , | Barrier Islands Low Chroma Matrix (TS7) | | | | |
| Sandy G | eved Matrix (S4) | | Delta Ochric | (F17) (| // Ε | , ., c, 1) | | | | | | |
| Sandy B | adox (S5) | | Beduced Ve | (i 17) (i rtic (F18 | | ·) 150Δ 15 | 0B) | Other (Explain in Remarks) | | | | |
| Stripped | Matrix (S6) | | Piedmont Fl | ndolain | Soils (E1 | (MI R | Δ 149Δ) | | | | | |
| Onipped | face (S7) (I PP P S | т ну | | Bright El | oodolain | Soile (E20 | ה ו-13הן הו | | | | | |
| Dark Sur | $\frac{1}{2} = \frac{1}{2} = \frac{1}$ | 1, 0) | | 0A 153 | C 152D) | 50115 (1 20 | 5) | ³ Indicate | are of hydrophytic ve | actation and | | |
| | | | (MLRA 149A, 153C, 153D) | | | | | Indicators of hydrophytic vegetation and | | | | |
| | 5, 1, 0) | (MLRA 13 | (MLRA 138, 152A in FL, 154) | | | | | unless disturbed or problematic. | | | | |
| Restrictive L | ayer (if observed): | | • | | • | - | | | | | | |
| Type: | · · · · | | | | | | | | | | | |
| - Depth (ir | ches): | | | | | | Hydri | c Soil Prese | nt? Yes X | No | | |
| | | | | | | | | | | | | |

| U.S. Army WETLAND DETERMINATION DATA S See ERDC/EL TR-07-24; t | OMB Control #: 0710-xxxx, Exp: Pending Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a) | | |
|---|--|---------------------------------------|---|
| Project/Site: Terrebonne Parish Port Comn | nission-West Bank Site | City/County: Terrebonne Pa | arish Sampling Date: 12/19/2023 |
| Applicant/Owner: Terrebonne Port Com | mission | | State: LA Sampling Point: 9 |
| Investigator(s): Ronnie Duke, Gavin Pitre | Se | ction, Township, Range: Sec | tion 12, T17S-R17E |
| Landform (hillside, terrace, etc.): Edge of C | Canal Local | relief (concave, convex, none | :): Convex Slope (%): 1 |
| Subregion (I RR or MI RA): I RR O | Lat: 29.33' 50.59" | Long: -90 41 | '46.23" Datum: NAD83 |
| Soil Map Unit Name: Fausse Clay, 0 to 1 pe | | | NWI classification: PSS1 Ch |
| Are elimetia (hydrologia conditions on the sit | a turical for this time of year | | |
| Are climatic / hydrologic conditions on the sit | | | |
| Are Vegetation, Soil, or Hydro | logy significantly distu | irbed? Are "Normal Circur | nstances" present? Yes X No |
| Are Vegetation, Soil, or Hydro | logynaturally problem | atic? (If needed, explain | any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach | site map showing sa | mpling point locations | , transects, important features, etc. |
| Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? | Yes X No Yes No X Yes X No | Is the Sampled Area within a Wetland? | Yes No_X |
| Water 13 inches below surface. Saturation | 12 inches below surface. Are | ea has been experiencing drou | ight. |
| HYDROLOGY | | | |
| Wetland Hydrology Indicators: | | Sec | ondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is requi | red; check all that apply) | | Surface Soil Cracks (B6) |
| Surface Water (A1) | Aquatic Fauna (B13) | | Sparsely Vegetated Concave Surface (B8) |
| High Water Table (A2) | Mari Deposits (B15) (Li | (C1) | Drainage Patterns (B10) |
| Water Marks (B1) | | on Living Roots (C3) | Dry-Season Water Table (C2) |
| Sediment Deposits (B2) | Presence of Reduced I | ron (C4) | Cravfish Burrows (C8) |
| Drift Deposits (B3) | Recent Iron Reduction | in Tilled Soils (C6) | Saturation Visible on Aerial Imagery (C9) |
| Algal Mat or Crust (B4) | Thin Muck Surface (C7 |) | Geomorphic Position (D2) |
| Iron Deposits (B5) | Other (Explain in Rema | urks) | Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (B | 7) | | FAC-Neutral Test (D5) |
| Water-Stained Leaves (B9) | | | Sphagnum Moss (D8) (LRR T, U) |
| Field Observations: | | | |
| Surface Water Present? Yes | No X Depth (inches) | : | |
| Water Table Present? Yes X | No Depth (inches) | : 13 | |
| Saturation Present? Yes X | No Depth (inches) | : 12 Wetland Hydr | ology Present? Yes X No |
| (includes capillary fringe) | nitering well a suich abotes a | | |
| Describe Recorded Data (stream gauge, mo | phitoring well, aerial photos, p | previous inspections), ir availai | |
| | | | |
| Remarks: | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Sampling Point: 9

| | Absolute | Dominant | Indicator | |
|--|------------|-----------------|-----------|---|
| Tree Stratum (Plot size: 30) | % Cover | Species? | Status | Dominance Test worksheet: |
| 1. Salix nigra | 5 | Yes | OBL | Number of Dominant Species |
| 2. I riadica sebitera | 2 | Yes | FAC | That Are OBL, FACW, or FAC:4 (A) |
| 3. | | | | Total Number of Dominant |
| 4 | | | | Species Across All Strata: <u>6</u> (B) |
| 5 | | | | Percent of Dominant Species |
| 6 | | | | That Are OBL, FACW, or FAC:66.7% (A/B) |
| | 7 | =Total Cover | | Prevalence Index worksheet: |
| 50% of total cover: | 4 20% | of total cover: | 2 | Total % Cover of: Multiply by: |
| Sapling Stratum (Plot size:) | | | | OBL species 15 x 1 =15 |
| 1 | | | | FACW species 10 x 2 = 20 |
| 2 | | | | FAC species X 3 =111 |
| 3 | | | | FACU species 50 x 4 = 200 |
| 4 | | | | UPL species 0 x 5 = 0 |
| 5 | | | | Column Totals: <u>112</u> (A) <u>346</u> (B) |
| 6 | | | | Prevalence Index = B/A = 3.09 |
| | | =Total Cover | | Hydrophytic Vegetation Indicators: |
| 50% of total cover: | 20% | of total cover: | | 1 - Rapid Test for Hydrophytic Vegetation |
| Shrub Stratum (Plot size: 30) | | | | X 2 - Dominance Test is >50% |
| 1. Baccharis halimifolia | 5 | Yes | FAC | 3 - Prevalence Index is ≤3.0 ¹ |
| 2. | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | ¹ Indicators of hydric soil and wotland hydrology must |
| 6. | | | | be present, unless disturbed or problematic. |
| | 5 | =Total Cover | | Definitions of Five Vegetation Strata: |
| 50% of total cover: | 3 20% | of total cover: | 1 | Tree – Woody plants, excluding woody vines |
| Herb Stratum (Plot size: 30) | | | | approximately 20 ft (6 m) or more in height and 3 in. |
| 1. Ambrosia trifida | 30 | Yes | FAC | (7.6 cm) or larger in diameter at breast height (DBH). |
| 2. Solidago altissima | 20 | Yes | FACU | Sapling – Woody plants, excluding woody vines |
| 3. Phragmites australis | 10 | No | FACW | approximately 20 ft (6 m) or more in height and less |
| 4 Zizaniopsis miliacea | 10 | No | OBI | than 3 in. (7.6 cm) DBH. |
| 5 Cynodon dactylon | | Yes | FACU | Shrub - Woody Plants, excluding woody vines |
| 6 | | | | approximately 3 to 20 ft (1 to 6 m) in height. |
| 7 | | | | |
| / | | | | Herb – All herbaceous (non-woody) plants, including |
| Q | | | | plants, except woody vines, less than approximately 3 |
| 9 | | | | ft (1 m) in height. |
| 10 | | | | Woody Vine – All woody vines, regardless of height |
| | 400 | Tatal Querra | | |
| | 100 | = l otal Cover | | |
| 50% of total cover: 5 | 0 20% | of total cover: | 20 | |
| Woody Vine Stratum (Plot size:) | | | | |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | Hydrophytic |
| | | =Total Cover | | Vegetation |
| 50% of total cover: | 20% | of total cover: | | Present? Yes X No |
| | === | | | |
| Remarks: (If observed, list morphological adaptation | ns below.) | | | |

| SOIL | | | | | | | | | Sa | ampling Poir | nt: | 9 |
|---|---------------------------------------|---------------|---------------------------------------|-------------------------|-------------------|-------------------|----------------|---|---|--------------|-----------|-----------|
| Profile Des | cription: (Describe | to the depth | needed to doci | ument ti | he indica | tor or co | nfirm the | e absence of | indicat | tors.) | | |
| Depth | Matrix | | Redo | ox Featu | res | | | | | · | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Te | exture | | Rem | arks | |
| 0-10 | 10YR 3/1 | 99 | 10YR 5/8 | 1 | C | M | Loam | Loamy/Clayey Prominent redox concer | | | ntrations | |
| 10-16 | 10YR 4/1 | 99 | 10YR 5/8 | 1 | С | М | Loam | y/Clayey | Pror | minent redo | x conce | ntrations |
| | | | | | | | | | | | | |
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| | · | · | | | · | | | | | | | |
| | | · | | | | | | | | | | |
| ¹ Type: C=C | oncentration, D=Dep | letion, RM=F | Reduced Matrix, M | /IS=Masl | ked Sand | Grains. | | ² Location: Pl | L=Pore | e Lining, M= | Matrix. | |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) | | | | | | | Indicators for | or Prob | plematic Hy | dric So | ils': | |
| Histosol | I (A1) | Thin Dark S | urface (S | S9) (LRR | S, T, U) | | 1 cm Mu | ck (A9) |) (LRR O) | | | |
| Histic E | pipedon (A2) | Barrier Islan | ds 1 cm | Muck (S | 12) | | 2 cm Mu | ck (A10 | 0) (LRR S) | | | |
| Black H | istic (A3) | (MLRA 15 | (MLRA 153B, 153D) | | | | | Coast Prairie Redox (A16) | | | | |
| Hydroge | en Sulfide (A4) | Loamy Much | Loamy Mucky Mineral (F1) (LRR O) | | | | | (outside MLRA 150A) | | | | |
| Stratifie | d Layers (A5) | Loamy Gley | Loamy Gleyed Matrix (F2) | | | | | Keaucea vertic (F18) | | | | |
| Organic | Organic Bodies (A6) (LRR P, T, U) | | | Depleted Matrix (F3) | | | | | (OUTSIGE MILKA 150A, 150B) | | | |
| 5 cm Mi | 5 cm Mucky Mineral (A7) (LRR P, T, U) | | | Redox Dark Surface (F6) | | | | | Piedmont Floodplain Soils (F19) (LRR P, T) | | | |
| Muck Pi | resence (A8) (LRR U |) | Depleted Dark Surface (F7) | | | | | Anomalous Bright Floodplain Soils (F20) | | | | (F20) |
| 1 cm Mi | uck (A9) (LRR P, T) | | Redox Depressions (F8) | | | | | (MLRA 153B) | | | | |
| Deplete | d Below Dark Surface | э (А11) | Marl (F10) (LRR U) | | | | | Red Parent Material (F21) | | | | |
| Thick D | ark Surface (A12) | | Depleted Ochric (F11) (MLRA 151) | | | | | Very Shallow Dark Surface (F22) | | | | |
| Coast P | rairie Redox (A16) (N | ILRA 150A) | Iron-Manganese Masses (F12) (LRR O, P | | | | | ² , T) (outside MLRA 138, 152A in FL, 154) | | | | |
| Sandy M | Mucky Mineral (S1) (L | .RR O, S) | Umbric Surface (F13) (LRR P, T, U) | | | | | Barrier Islands Low Chroma Matrix (TS7) | | | | |
| Sandy C | Gleyed Matrix (S4) | | Delta Ochric (F17) (MLRA 151) | | | | | (MLRA 153B, 153D) | | | | |
| Sandy F | Redox (S5) | | Reduced Ve | ertic (F18 | B) (MLRA | 1 50A , 15 | 60B) | Other (Explain in Remarks) | | | | |
| Stripped | d Matrix (S6) | | Piedmont Fl | loodplair | n Soils (F1 | 19) (MLR | A 149A) | | | | | |
| Dark Su | urface (S7) (LRR P, S | , T, U) | Anomalous | Bright Fl | loodplain | Soils (F2 | 0) | | | | | |
| Polyvalu | ue Below Surface (S8 | ;) | (MLRA 14 | (MLRA 149A, 153C, 153D) | | | | | ³ Indicators of hydrophytic vegetation and | | | |
| (LRR | S, T, U) | | Very Shallov | w Dark S | Surface (F | 22) | | wetland hydrology must be present, | | | ent, | |
| | | | (MLRA 13 | 38, 152A | in FL, 1۱ | 54) | | unless | distur | bed or probl | ematic. | |
| Restrictive | Layer (if observed): | | | | | | | | | | | |
| Type: | | | | | | | | | | | | |
| Depth (i | Depth (inches): | | | | | | Hydri | Hydric Soil Present? Yes | | | No | X |
| Remarks: | | | | | | | | | | | | |
| | | | | | | | | | | | | |
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| U.S. Army WETLAND DETERMINATION DATA See ERDC/EL TR-07-24; t | If Coastal Plain Region CECW-CO-R | OMB Control #: 0710-xxxx, Exp: Pending Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a) | | | | |
|---|---|--|--------------------------|------------------------|--|--|
| Project/Site: Terrebonne Parish Port Comm | nission-West Bank Site | City/County: Terrebonne P | arish Sa | mpling Date: 12/19/202 | | |
| Applicant/Owner: Terrebonne Port Com | mission | | State: LA Sar | mpling Point: 10 | | |
| Investigator(s): Ronnie Duke, Gavin Pitre | Sec | ction. Township. Range: See | | | | |
| Landform (hillside terrace etc.): Field | Local | relief (concave, convex, none | e): None | Slope (%): 0 | | |
| Subregion (LRR or MLRA): LRR O | Lat: 29.33' 49.53" | Long: -90.4 | 1' 50 84" | Datum: NAD83 | | |
| Soil Man Unit Name: Fausse Clay, 0 to 1 pe | arcent slopes, frequently flood | 2011g001 | NW/I classification: | PSS1 Ch | | |
| Are elimetia (hydrologia conditions on the sit | to turical for this time of year? | Vee V | | | | |
| Are climatic / hydrologic conditions on the sit | e typical for this time of year? | | vo (if no, expla | in in Remarks.) | | |
| Are vegetation, Soil, or Hydrologysignificantly disturbed? Are "Normal Circumstances" present? Yes X No | | | | | | |
| Are Vegetation, Soil, or Hydro | ology naturally problema | atic? (If needed, explain | any answers in Remar | ks.) | | |
| SUMMARY OF FINDINGS – Attach | ۱ site map showing sar | mpling point locations | s, transects, impo | rtant features, etc. | | |
| Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? | Yes No X Yes X No | Is the Sampled Area within a Wetland? | Yes No | <u>X</u> | | |
| Remarks: Over grown field "Not sure if property line is | correct." Area has been expe | eriencing drought. | | | | |
| HYDROLOGY | | | | | | |
| Wetland Hydrology Indicators: | | Sec | condary Indicators (mini | mum of two required) | | |
| Primary Indicators (minimum of one is requ | ired; check all that apply) | | Surface Soil Cracks (E | 6) | | |
| Surface Water (A1) | Aquatic Fauna (B13) | | Sparsely Vegetated Co | oncave Surface (B8) | | |
| High Water Table (A2) | Marl Deposits (B15) (LR | RR U) | Drainage Patterns (B1 | 0) | | |
| Saturation (A3) | Hydrogen Sulfide Odor | (C1) | Moss Trim Lines (B16) | | | |
| Water Marks (B1) | Oxidized Rhizospheres | on Living Roots (C3) | Dry-Season Water Tal | ble (C2) | | |
| Sediment Deposits (B2) | Presence of Reduced In | n Tilled Sails (C6) | Crayfish Burrows (C8) | orial Imagony (CQ) | | |
| Algal Mat or Crust (B4) | Thin Muck Surface (C7) | | | | | |
| Iron Deposits (B5) | | | Shallow Aquitard (D3) | 02) | | |
| Inundation Visible on Aerial Imagery (B | Other (Explain in Remai | | FAC-Neutral Test (D5) | | | |
| Water-Stained Leaves (B9) | ') | | Sphagnum Moss (D8) | (LRR T. U) | | |
| Field Observations: | | | | () - / | | |
| Surface Water Present? Yes | No X Depth (inches): | | | | | |
| Water Table Present? Yes | No X Depth (inches): | | | | | |
| Saturation Present? Yes | No X Depth (inches): | Wetland Hyd | rology Present? | Yes No X | | |
| (includes capillary fringe) | | | | | | |
| Describe Recorded Data (stream gauge, m | onitoring well, aerial photos, p | revious inspections), if availa | ble: | | | |
| | | | | | | |
| Pemarks: | | | | | | |
| Nellaiks. | | | | | | |
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Sampling Point: 10

| Tree Stratum (Plot size: | Absolute Dominant % Cover Species? | Indicator Status | Dominance Test worksheet: |
|--|---------------------------------------|---------------------|---|
| 1. | | | Number of Dominant Species |
| 2. | | | That Are OBL, FACW, or FAC: (A) |
| 3 | | | Total Number of Dominant |
| 4 | | | Species Across All Strata: 2 (B) |
| 5 | | | Percent of Dominant Species |
| 6 | | | That Are OBL, FACW, or FAC: 0.0% (A/B) |
| | =Total Cover | | Prevalence Index worksheet: |
| 50% of total cover: | 20% of total cover: | | Total % Cover of: Multiply by: |
| Sapling Stratum (Plot size:) | | | OBL species x 1 = |
| 1 | | | FACW species 0 x 2 = 0 |
| 2 | | | FAC species x 3 = |
| 3 | | | FACU species <u>100</u> x 4 = <u>400</u> |
| 4 | | | UPL species x 5 = |
| 5 | | | Column Totals: 100 (A) 400 (B) |
| 6 | | | Prevalence Index = B/A =4.00 |
| | =Total Cover | | Hydrophytic Vegetation Indicators: |
| 50% of total cover: | 20% of total cover: | | 1 - Rapid Test for Hydrophytic Vegetation |
| Shrub Stratum (Plot size:) | | | 2 - Dominance Test is >50% |
| 1 | | | 3 - Prevalence Index is ≤3.0' |
| 2 | | | Problematic Hydrophytic Vegetation' (Explain) |
| 3. | | | |
| 4 | | | |
| 5 | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 6. | | | be present, unless disturbed or problematic. |
| | =Total Cover | | Definitions of Five Vegetation Strata: |
| 50% of total cover: | 20% of total cover: | | Tree – Woody plants, excluding woody vines, |
| Herb Stratum (Plot size: <u>30</u>) | | | (7.6 cm) or larger in diameter at breast height (DBH). |
| 1. Solidago altissima | 25 Yes | FACU | |
| 2. Rubus trivialis | <u>70 Yes</u> | FACU | Sapling – Woody plants, excluding woody vines, |
| 3. Eupatorium capillitolium | <u> </u> | FACU | than 3 in. (7.6 cm) DBH. |
| 5. | | | Shrub - Woody Plants, excluding woody vines. |
| 6. | | | approximately 3 to 20 ft (1 to 6 m) in height. |
| 7 | | | Herb – All herbaceous (non-woody) plants, including |
| 8 | | | herbaceous vines, regardless of size, and woody |
| 9 | | | plants, except woody vines, less than approximately 3 |
| 10 | | | |
| 11 | | | Woody Vine – All woody vines, regardless of height. |
| | 100 =Total Cover | | |
| 50% of total cover: 5 | 0 20% of total cover: | 20 | |
| Woody Vine Stratum (Plot size:) | | | |
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | Hydrophytic |
| | =Total Cover | | Vegetation |
| 50% of total cover: | 20% of total cover: | | Present? Yes No X |
| Remarks: (If observed, list morphological adaptation | | | |

SOIL

| SOIL | | | | | | | | | Sampling Point: | 10 | |
|---|---------------------------|-------------------------|---------------------------------------|-------------------------------|-------------------|------------------|---------------------------------|--|--------------------------------|------------|--|
| Profile Desc | ription: (Describe t | o the depi | th needed to docu | ument th | ne indica | tor or co | nfirm the | absence of i | ndicators.) | | |
| Depth | Matrix | | Redc | x Featur | res | | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Те | xture | Remarks | | |
| 0-13 | 10YR 3/1 | 98 | 10YR 5/8 | 2 | С | M | Loam | y/Clayey | Prominent redox concentrations | | |
| 13-16 | 10YR 2/1 | 100 | | | С | М | Loamy/Clayey | | | | |
| | - | | | | | | | | | | |
| | | <u> </u> | | | | | | <u> </u> | | | |
| | | <u> </u> | | | | | | <u> </u> | | | |
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| | | <u> </u> | | | | | | | | | |
| | | <u> </u> | | | | | | <u> </u> | | | |
| ¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. | | | | | | | | | | ۲. | |
| Hydric Soil I | ndicators: (Applical | ble to all L | RRs, unless othe | rwise n | oted.) | | | Indicators for Problematic Hydric Soils ³ : | | | |
| Histosol (| (A1) | | Thin Dark S | urface (S | 39) (LRR | S, T, U) | | 1 cm Muc | ck (A9) (LRR O) | | |
| Histic Ep | ipedon (A2) | Barrier Islan | Barrier Islands 1 cm Muck (S12) | | | | 2 cm Muck (A10) (LRR S) | | | | |
| Black His | stic (A3) | (MLRA 15 | (MLRA 153B, 153D) | | | | Coast Prairie Redox (A16) | | | | |
| Hydroger | ו Sulfide (A4) | | Loamy Muck | my Mucky Mineral (F1) (LRR O) | | | | (outside MLRA 150A) | | | |
| Stratified | Layers (A5) | | Loamy Gleye | ed Matrix | x (F2) | | | Reduced Vertic (F18) | | | |
| Organic E | Bodies (A6) (LRR P, | T, U) | Depleted Ma | atrix (F3) |) | | | (outside MLRA 150A, 150B) | | | |
| 5 cm Muo | X Redox Dark | Redox Dark Surface (F6) | | | | Piedmont | t Floodplain Soils (F19) | (LRR P, T) | | | |
| Muck Pre | esence (A8) (LRR U) | Depleted Da | Depleted Dark Surface (F7) | | | | Anomalou | us Bright Floodplain Soi | lls (F20) | | |
| 1 cm Muo | ck (A9) (LRR P, T) | Redox Depre | Redox Depressions (F8) | | | | (MLRA | 153B) | | | |
| Depleted | Below Dark Surface | Marl (F10) (I | Marl (F10) (LRR U) | | | | Red Pare | nt Material (F21) | | | |
| Thick Da | rk Surface (A12) | Depleted Oc | Depleted Ochric (F11) (MLRA 151) | | | | Very Shallow Dark Surface (F22) | | | | |
| Coast Pra | airie Redox (A16) (M |) Iron-Mangar | Iron-Manganese Masses (F12) (LRR O, F | | | | (outsid | e MLRA 138, 152A in F | FL, 154) | | |
| Sandy IVI | ucky Mineral (S1) (Li | | Umbric Surface (F13) (LRR P, T, U) | | | | Barrier Isl | lands Low Chroma Mati | rix (TS7) | | |
| Sandy G | eyed Matrix (S4) | Delta Ochric | Deita Ochric (F17) (MLRA 151) | | | | | 153B, 153D) | | | |
| Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A, 15 | | | | | | 90B) | Other (Ex | (plain in Remarks) | | | |
| Stripped Matrix (S6) Piedmont Floodplain Soils (F19) (MLRA 149A) | | | | | | | | | | | |
| Dark Surface (S7) (LRR P, S, T, U) Anomalous Bright Floodplain Soils (F2 | | | | | | Solis (F2 | 0) | 31 | | Common and | |
| Polyvalue Below Surface (S8) (MLRA 149A, 153C, 153D) (I, DD, C, T, LI) (S8) (S8) | | | | | | | | marcalors of hydrophytic vegetation and | | | |
| (LKK S, I, U) Very Shallow Dark Surface (F22) | | | | | | | | wettand | d hydrology must be pre | esent, | |
| | N | | (IVILKA IJ | 8, 152A | In FL, 13 | <u>54)</u> | | uniess | disturbed or problemati | | |
| Restrictive L | ayer (if observed): | | | | | | | | | | |
| | | | | | | | | | | | |
| Depth (inches): | | | | | | | Hydri | c Soil Present | t? Yes <u>X</u> N | <u>۱۰</u> | |
| Remarks: | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

ATTACHMENT F PLOT PHOTOGRPAHS





Figure 1. Plot 1 Soils



Figure 2. Plot 1 Facing North







Figure 3. Plot 1 Facing South





Figure 5. Plot 1 Facing West





Figure 7. Plot 2 Facing North



Figure 8. Plot 2 Facing South



Figure 9. Plot 2 Facing East





Figure 11. Plot 3 Soils







Figure 13. Plot 3 Facing South







Figure 15. Plot 3 Facing West



Figure 16. Plot 4 Soils





Figure 17. Plot 4 Facing North







Figure 19. Plot 4 Facing East







Figure 21. Plot 5 Soils







Figure 23. Plot 5 Facing South







Figure 25. Plot 5 Facing West







Figure 27. Plot 6 Facing North



Figure 28. Plot 6 Facing South





Figure 29. Plot 6 Facing East





Figure 31. Plot 7 Soils



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Figure 32. Plot 7 Facing North





Figure 33. Plot 7 Facing South



Figure 34. Plot 7 Facing East





Figure 35. Plot 7 Facing West



Figure 36. Plot 8 Soils







Figure 37. Plot 8 Facing North



Figure 38. Plot 8 Facing South





Figure 39. Plot 8 Facing East



Figure 40. Plot 8 Facing West





Figure 41. Plot 9 Soils







Figure 43. Plot 9 Facing South



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Figure 45. Plot 9 Facing West







Figure 46. Plot 10 Facing North



Figure 47. Plot 10 Facing South







Figure 48. Plot 10 Facing East

