October 2014

Exhibit CC. Angel Ranch Site Wetland Delineation Report

WETLAND DELINEATION REPORT ANGEL RANCH 751 ACRES POINTE COUPEE PARISH, LOUISIANA

Prepared for



Baton Rouge Area Chamber **Baton Rouge, Louisiana**

Prepared by



Baton Rouge, Louisiana

WETLAND DELINEATION REPORT ANGEL RANCH 751 ACRES POINTE COUPEE PARISH, LOUISIANA

GEC Project Number: 0013.2122014.012



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TABLE OF CONTENTS

TABLE OF CONTENTS

| Section | | | Page |
|----------------------------|---------------------------|------|--------|
| INTRODUCTI | ON | | 1 |
| METHODOLO | GY | | 1 |
| RESULTS | | | 6 |
| CONCLUSION | IS | | 11 |
| Appendix A: Appendix B: | DATA FORMS PHOTOGRAPHS | | |

LIST OF ILLUSTRATIONS

| Num | ber | Page |
|-----|-------------------|------|
| 1 | Site Location Map | 2 |
| 2 | Site Vicinity Map | 3 |
| 3 | Wetland Map | 4 |
| 4 | Wetland Map - JD | 5 |
| 5 | Soils Map | 7 |

WETLAND DELINEATION REPORT

WETLAND DELINEATION REPORT ANGEL RANCH 751 ACRES POINTE COUPEE PARISH, NEW ROADS, LOUISIANA

INTRODUCTION

G.E.C., Inc. (GEC) recently conducted a wetland delineation on Angel Ranch a 751-acre site located within sections 22, 23 and 24 of Township 4 South, Range 10 East in Pointe Coupee Parish, Louisiana, for the Baton Rouge Area Chamber (Figure 1). The property fronts the Mississippi River at approximate river mile 266, while along the protected side of the Mississippi River Protection Levee the property fronts Ferry Road, which was the old LA Highway 10. The rerouted Louisiana Highway 10 traverses through the southern end of the property.

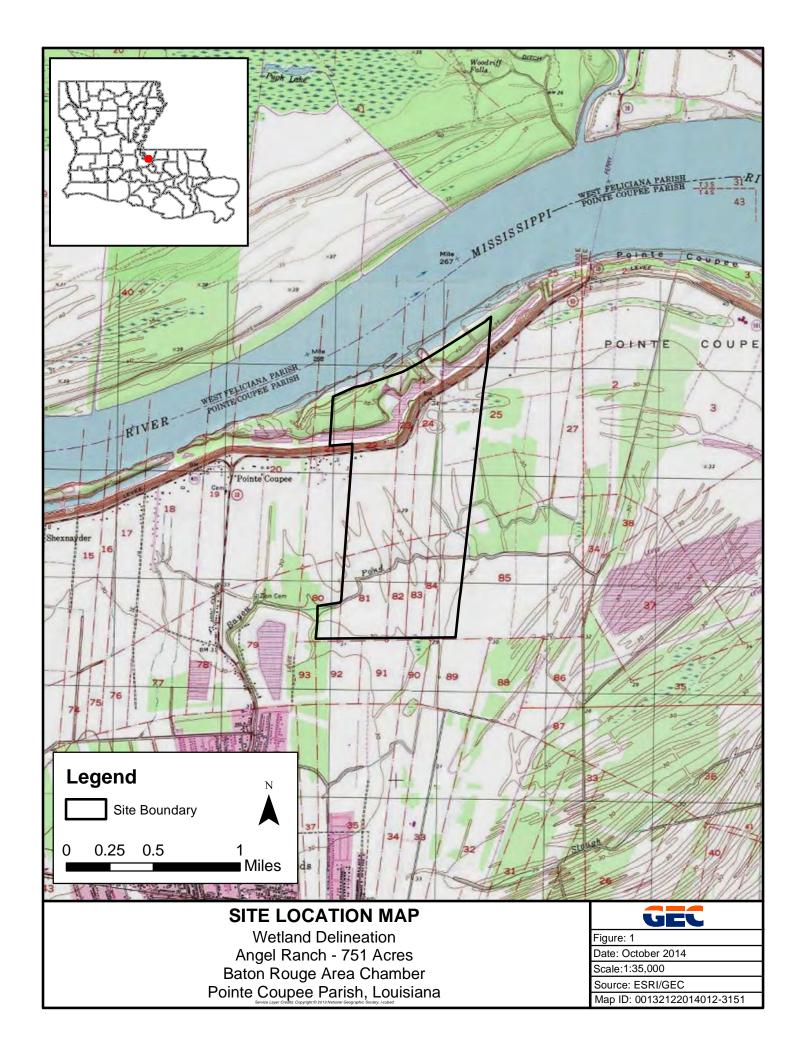
Within the protection levee the property consist of forested habitat and open water borrow pits. The remaining portion of the property is majority pasture or fallow field habitat with small patches of trees along with ponds, drainage ditches/swales and bayous (Figure 2). The purpose of this delineation was to determine the wetland boundaries within the approximately 751-acre site.

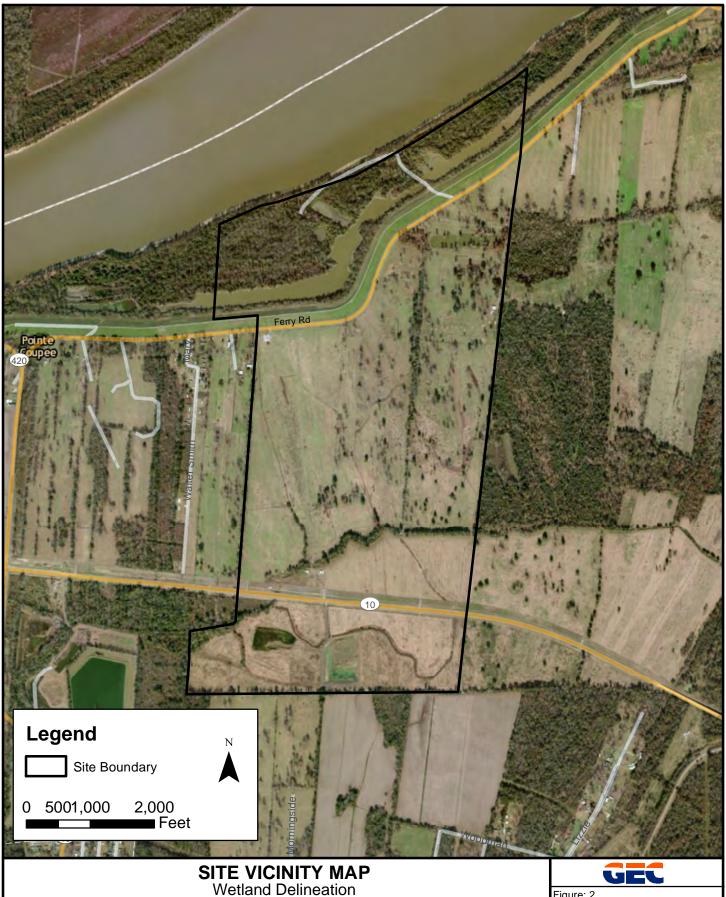
METHODOLOGY

GEC conducted the wetland delineation in accordance with Section D, Subsection 2 of Technical Report Y-87-1, Corps of Engineers Wetlands Delineation Manual as well as the Atlantic and Gulf Coastal Plains Regional Supplement. Aerial photography, Natural Resources Conservation Service (NRCS) Pointe Coupee Parish soil survey map, and U.S. Geological Survey (USGS) topographic quadrangle maps were reviewed prior to the initiation of field work to identify the potential extent of wetlands present on the subject property.

Routine Wetland Delineation Data Forms (Appendix A), as approved by Headquarters, U.S. Army Corps of Engineers (USACE) 10/08, were completed for various vegetative communities encountered within the project area. These data forms contain sufficient information regarding the presence or absence of hydric soils, hydrophytic vegetation, and wetland hydrology, to support the demarcation of a wetland boundary. The location of each sample plot along with mapped wetlands and other waters are shown in Figure 3. Figure 4 provide the same information but without the aerial background for a black and white reproducible figure.

Dominant vegetation was recorded on the data forms along with the indicator status as listed in the *National List of Plant Species Occurring in Wetlands (Region 2)* released by USACE in May 2012 (Release no. 12-005). Once dominant vegetation was recorded and evaluated, if more than 50 percent of the dominant vegetation had an indicator status of FAC, FACW, or OBL or the prevalence index was \leq 3.0, the hydrophytic vegetation criterion was met.





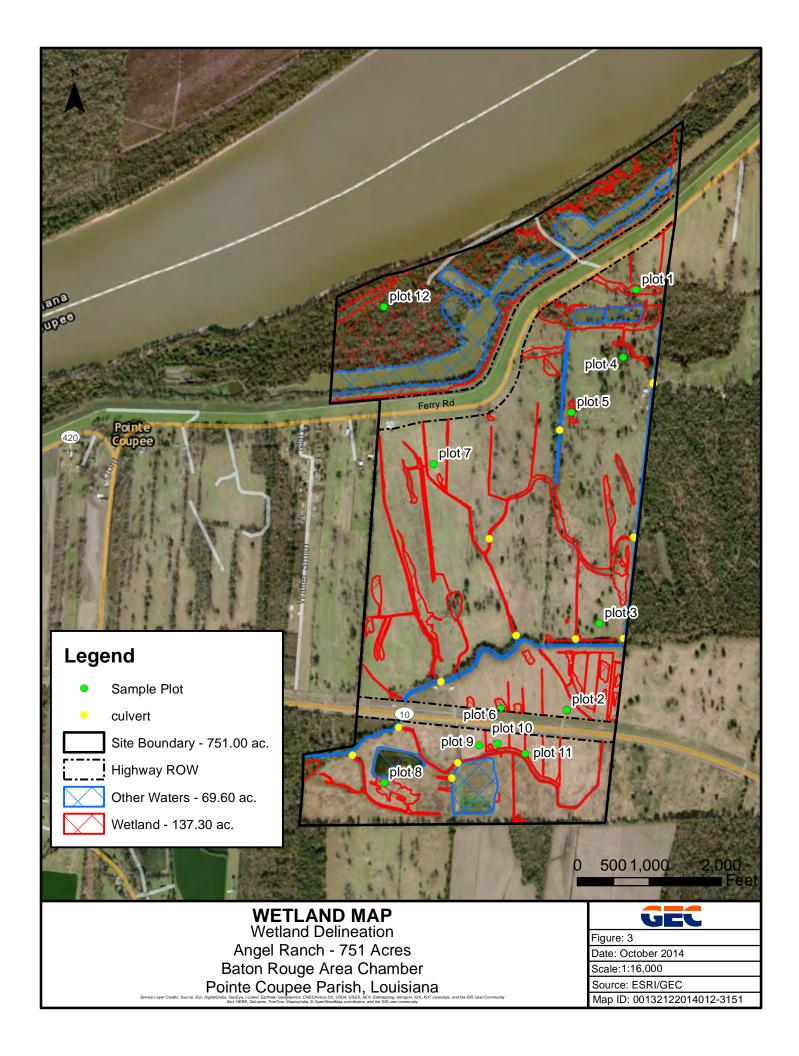
Angel Ranch - 751 Acres
Baton Rouge Area Chamber
Pointe Coupee Parish, Louisiana

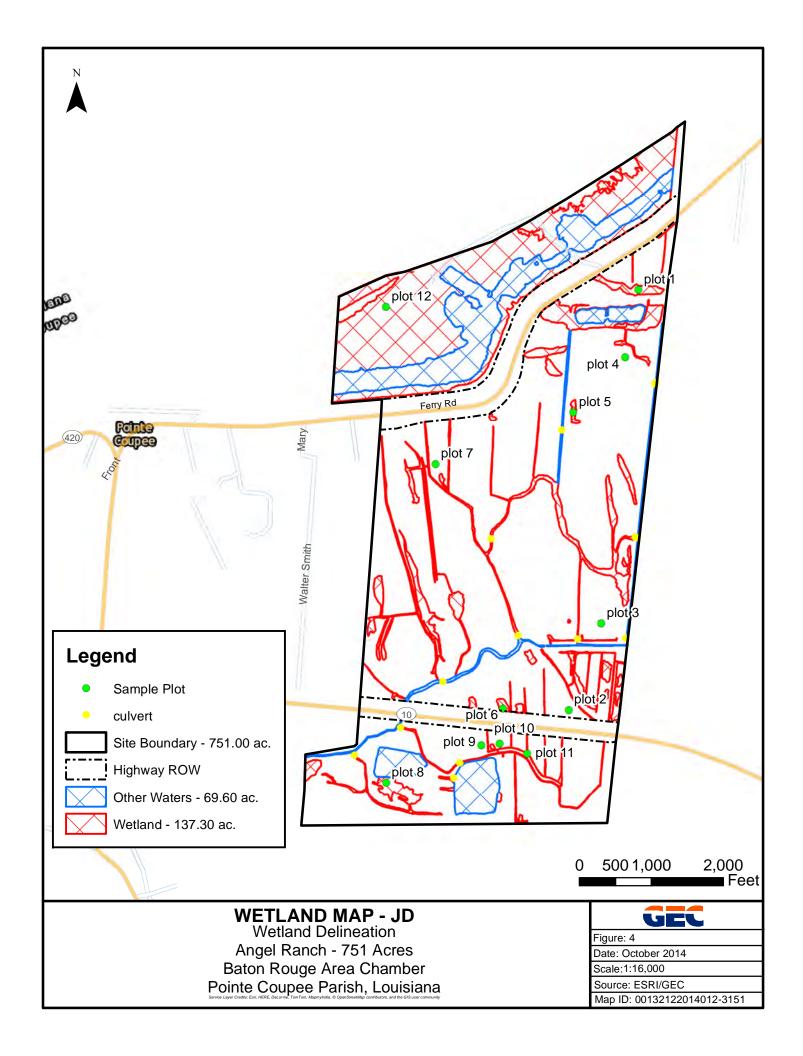
Figure: 2

Date: October 2014 Scale:1:18,000

Source: ESRI/GEC

Map ID: 00132122014012-3151





A soil pit was excavated to a depth of approximately 18 inches at each sample plot. The pit remained open for at least 15 minutes to allow the pit to fill with water, if present. Soils were sampled along the exposed stratum. Information recorded on the data forms included soil colors (hue, value, and chroma as per the 1992 revised edition of the Munsell Color Chart), size, color, abundance, and depth of mottles, as well as soil texture. Soil texture was determined using the "texture by feel" analysis. Figure 5 depicts the soils mapped by the NRCS within the project area.

Wetland hydrology indicators were also recorded at each sample plot as per the USACE requirements. If at least one primary or two secondary hydrology indicators were present, the sample plot was classified as having wetland hydrology.

Photographs were taken at each sample plot where a data form was completed. These photographs show a representative soil profile, as well as overviews of the sample plots (Appendix B).

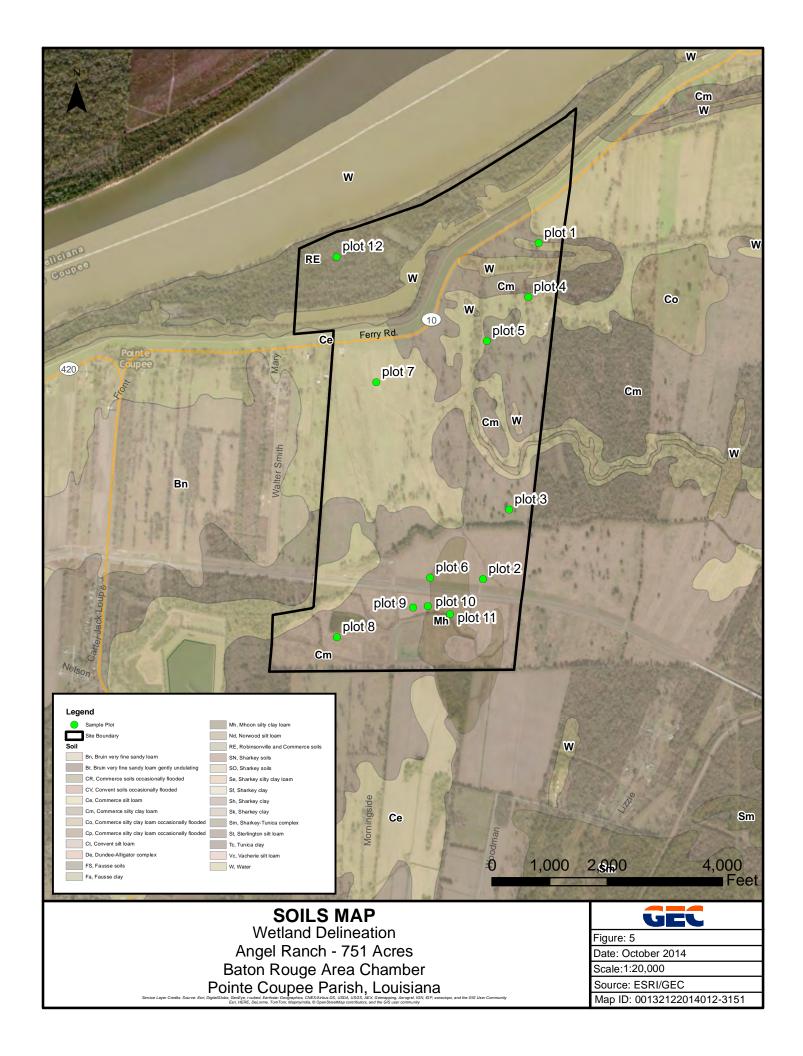
RESULTS

The following subsections provide descriptions of each of the samples plots taken during the field survey. Descriptions of vegetation, soil characteristics, and hydrology indicators at each sample plot recorded are provided.

<u>Sample Plot - 1:</u> Sample Plot 1 is located within a herbaceous depression situated in the northeast corner of the property just south of Ferry Road (Figure 3). Dominant vegetation within this habitat includes Savannah panic grass (*Phanopyrum gymnocarpon*), redtop panic grass (*Panicum rigidulum*), short-bristle beakrush (*Rhynchospora corniculata*), and creeping spotflower (*Spilanthes americana*). Non-dominant plants observed at the sample plot include Louisiana blackberry (*Rubus louisianus*), lizard's tail (*Saururus cernuus*), and northern spider-lily (*Hymenocallis occidentalis*). The hydrophytic vegetation criterion is met within this sample plot.

The soils within this sample plot are mapped as Commerce silty clay loam. This series is listed on the National and the Louisiana Hydric Soils lists. Field investigations determined that the soils exhibit hydric soil indicators for a depleted matrix; therefore, the soils are considered hydric. Oxidized rhizospheres on living roots are the only primary indicator of wetland hydrology recorded at the site. However, secondary indicators include saturation visible on aerial imagery (C9), geomorphic position (D2), and a positive FAC-Neutral test (D5). The wetland hydrology criterion is met at this plot. It is GEC's opinion that this sample plot is within a wetland, based on the presence of all three wetland parameters (see Data Form Plot - 1).

<u>Sample Plot - 2:</u> Sample Plot 2 is located at the southern end of the property within pasture habitat just north of LA Highway 10 and along the eastern side of the property (Figure 3). This sample plot is dominated by Bermuda grass (*Cynodon dactylon*), southern carpet grass (*Axonopus affinis*), and Santa Maria feverfew (*Parthenium hysterophorus*). Other herbaceous species observed include marshpepper smartweed (*Polygonum hydropiper*), spiny amaranth (*Amaranthus spinosus*), annual sumpweed (*Iva annua*), arrow-leaf sida (*Sida rhombifolia*), Carolina nightshade (*Solanum carolinense*), Virginia button-weed (*Diodia virginiana*), and rough



cockle-bur (*Xanthium strumarium*). The hydrophytic vegetation criterion is met within this sample plot.

The soils within this sample plot are mapped as Commerce silty clay loam. This series is listed on the National and the Louisiana Hydric Soils lists. Field investigations determined that the soils exhibited hydric soil indicators for a depleted matrix. Therefore, the hydric soils are present within this habitat. There are no primary or secondary indicators of hydrology recorded at this sample. It is GEC's opinion that this sample plot is not within a wetland, based on the absence of wetland hydrology (see Data Form Plot - 2).

<u>Sample Plot - 3:</u> Sample Plot 3 is located along the east side of the property just north of LA Highway 10 within a pasture (Figure 3). The dominant herbaceous species recorded in this sample plot include marshpepper smartweed and annual sumpweed. Other non-dominant species occurring within the sample plot are Bermuda grass, creeping spotflower, Virginia button-weed, southern carpet grass, lance-leaf frog-fruit (*Phyla lanceolata*), chain-leaf aster (*Aster adnatus*), and Carolina nightshade. The hydrophytic vegetation criterion is met within this sample plot.

The soils within this sample plot are mapped as Commerce silty clay loam. This series is listed on the National and the Louisiana Hydric Soils lists. Field investigations determined that the soils exhibited hydric soil indicators for a depleted matrix. Therefore, the hydric soils are present at this sample plot. The wetland hydrology criterion is not met at this plot due to the lack of any primary and only one secondary hydrology indicator, a positive FAC-Neutral test. It is GEC's opinion that this sample plot is not within a wetland, based on the lack of wetland hydrology within the plot (see Data Form Plot - 3).

<u>Sample Plot - 4:</u> Sample Plot 4 is located along the east side of the property at the northern end within a stand of mature trees (Figure 3). The dominant trees within this sample plot include cherry-bark oak (*Quercus pagoda*), hickory pecan (*Carya illinoensis*), and American elm (*Ulmus americana*). Wate oak (*Quercus nigra*) was also present but was not dominant. The herbaceous stratum was dominated by Bermuda grass and marshpepper smartweed. Occurrences of other non-dominant species present include arrow-leaf sida, Indian heliotrope (*Heliotropium indicum*), chamberbitter (*Phyllanthus urinaria*), and Carolina elephant-foot (*Elephantopus carolinianus*). The hydrophytic vegetation criterion is met within this sample plot.

The soils within this sample plot are mapped as Commerce silt loam. This series is listed on the National and the Louisiana Hydric Soils lists. Field investigations determined that the soils exhibited hydric soil indicators for a depleted matrix. Therefore, the hydric soils are present at this sample plot. The wetland hydrology criterion is not met at this plot due to the lack of any primary and only one secondary hydrology indicator, a positive FAC-Neutral test. It is GEC's opinion that this sample plot is not within a wetland, based on the lack of wetland hydrology indicators within the plot (see Data Form Plot - 4).

<u>Sample Plot - 5:</u> Sample Plot 5 is located in the northeastern portion of the property within a herbaceous depression with a few trees around the perimeter (Figure 3). The dominant trees were pecan hickory and sugarberry (*Celtis laevigata*). The dominant herbaceous species recorded within this habitat is marshpepper smartweed. Other species recorded but less

abundant are creeping spotflower, blunt spikerush (*Eleocharis obtuse*), annual sumpweed, blunt broom sedge (*Carex tribulooides*), green flatsedge (*Cyperus virens*), and soft rush (*Juncus effusus*). The hydrophytic vegetation criterion is met within this sample plot.

The soils within this sample plot are mapped as Commerce silty clay loam. These series are both listed on the National and the Louisiana Hydric Soils lists. Field observations concluded that the hydric soils criterion is met within this plot based on the presence of hydric soil indicators for a depleted matrix. Primary wetland hydrology indicators include saturation (A3), water-stained leaves (B9), and oxidized rhizospheres on living roots (C3). Secondary wetland hydrology indicators observed and recorded at the sample plot are crayfish burrows (C8) and a positive FAC-Neutral test (D9). The wetland hydrology criterion is met at this plot. It is GEC's opinion that this sample plot is within a wetland, based on the presence of hydrophytic vegetation, hydric soils and wetland hydrology within the plot (see Data Form Plot - 5).

<u>Sample Plot - 6:</u> Sample Plot 6 is located in the southern portion of the property just north of LA Highway 10 within pasture habitat (Figure 3). The dominant species within this herbaceous depression include annual sumpweed and marshpepper smartweed. Other less abundant species observed within this habitat include chain-leaf aster, lance-leaf frog-fruit, creeping spotflower, and green flatsedge. The hydrophytic vegetation criterion is met within this sample plot.

The soil series mapped at this plot is the Mhoon silty clay loam. This series is listed on the National and the Louisiana Hydric Soils lists. Field observations concluded that the hydric soils criterion is met within this plot based on the presence of hydric soil indicators for a depleted matrix. Oxidized rhizospheres is the only primary wetland hydrology indicator recorded at the sample plot. Secondary indicators include crayfish burrows (C8) and a positive FAC-Neutral test. The wetland hydrology criterion is met at this plot. It is GEC's opinion that this sample plot is within a wetland, based on the presence of hydrophytic vegetation, hydric soils and wetland hydrology within the plot (see Data Form Plot - 6).

<u>Sample Plot - 7:</u> Sample Plot 7 is located within pasture habitat in the northwestern portion of the property just south of LA Highway 981 (Figure 3). This habitat was dominated by Bermuda grass, marshpepper smartweed, and annual sumpweed. Other less abundant species recorded within this sample plot include Pennsylvania smartweed (*Polygonum pensylvanicum*), lance-leaf frog-fruit, creeping spotflower, Virginian button-weed, white clover (*Trifolium repens*), rough cockle-bur, and chain-leaf aster. The hydrophytic vegetation criterion is met within this sample plot.

The soil series mapped at this plot is the Commerce silt loam. This series is listed on the National and the Louisiana Hydric Soils lists. Field observations concluded that the hydric soils criterion is met within this plot based on the presence of hydric soil indicators for a depleted matrix. There were no primary wetland hydrology indicators observed at this plot and the only secondary indicator recorded was a positive FAC-Neutral test. The wetland hydrology criterion is not met at this plot. It is GEC's opinion that this sample plot is not within a wetland, based on the lack of wetland hydrology within the plot (see Data Form Plot - 7).

<u>Sample Plot - 8:</u> Sample Plot 8 is located in the southwestern portion of the property within a herbaceous habitat adjacent to a pond (Figure 3). This herbaceous habitat is dominated by

lance-leaf frog-fruit, green flatsedge, and blunt broom sedge. Additional species recorded but less abundant include creeping spotflower, chain-leaf aster, Virginia button-weed, Iria flatsedge (*Cyperus iria*), annual sumpweed, Florida Paspalum (*Paspalum floridanum*), Brazilian vervain (*Verbena brasiliensis*), and rough cockle-bur. The hydrophytic vegetation criterion is met within this sample plot.

The soils within this plot are mapped as Commerce silty clay loam. This series is listed on the National and the Louisiana Hydric Soils lists. Field observations concluded that the hydric soils criterion is met within this plot based on the presence of hydric soil indicators for a depleted matrix. Oxidized rhizospheres on living roots, is the only primary wetland hydrology indicator that was observed and recorded at the sample site. The only secondary indicator recorded was a positive FAC-Neutral test. The wetland hydrology criterion is met at this plot. It is GEC's opinion that this sample plot is within a wetland, based on the presence of hydrophytic vegetation, hydric soils, and wetland hydrology within the plot (see Data Form Plot - 8).

<u>Sample Plot - 9:</u> Sample Plot 9 is located in the southern portion of the property south of LA Highway 10 within a fallow field. Dominant vegetation within this field is yellow foxtail (*Setaria pumila*) and Bermuda grass. Less dominant vegetation observed within the sample plot includes great ragweed (*Ambrosia trifida*), blunt broom sedge, Virginia button-weed, Canada golden-rod (*Solidago canadensis*), chain-leaf aster, yellow thistle (*Cirsium horridulum*), Carolina nightshade, Brazilian vervain, and annual sumpweed. The hydrophytic vegetation criterion is not met within this sample plot.

The soils within this plot are mapped as Commerce silty clay loam. This series is listed on the National and the Louisiana Hydric Soils lists. Field observations concluded that the hydric soils criterion is met within this plot based on the presence of hydric soil indicators for a depleted matrix. There were no primary or secondary wetland hydrology indicators recorded within this sample plot. Therefore, the wetland hydrology criterion is not met at this sample plot. It is GEC's opinion that this sample plot is not within a wetland, based on the lack of hydrophytic vegetation and wetland hydrology within the plot (see Data Form Plot - 9).

<u>Sample Plot - 10:</u> Sample Plot 10 is located in the southern portion of the property just south of LA Highway 10 within a fallow field. The dominant vegetation within this sample plot consists of chain-leaf aster and Virginia button-weed. Scattered occurrences of great ragweed, yellow foxtail, and Canada golden-rod were also recorded within this sample plot. The hydrophytic vegetation criterion is met within this sample plot.

The soils within this plot are mapped as Commerce silty clay loam. This series is listed on the National and the Louisiana Hydric Soils lists. Field observations concluded that the hydric soils criterion is met within this plot based on the presence of hydric soil indicators for a depleted matrix. Primary wetland hydrology indicators are lacking from this sample plot and only one secondary indicator, a positive FAC-Neutral test (D5) was documented. Therefore, the wetland hydrology criteria is not met within this sample plot. It is GEC's opinion that this sample plot is not within a wetland, based on the lack of wetland hydrology within the plot (see Data Form Plot - 10).

<u>Sample Plot - 11:</u> Sample Plot 11 is located in the southern portion of the property just south of LA Highway 10 within a shallow drainage swale traversing through the fallow field. These drainage swales are dominated by green flatsedge, creeping spotflower, and winged loosestrife (*Lythrum alatum*). Other less abundant species include soft rush, marshpepper smartweed, annual sumpweed, vasey grass (*Paspalum urvillel*), lance-leaf frog-fruit, and Canada goldenrod. The hydrophytic vegetation criterion is met within this sample plot.

The soils within this plot are mapped as Mhoon silty clay loam. This series is listed on the National and the Louisiana Hydric Soils lists. Field observations concluded that the hydric soils criterion is met within this plot based on the presence of hydric soil indicators for a depleted matrix. Primary wetland hydrology indicators recorded within this sample plot include waterstained leaves (B9) and oxidized rhizospheres on living roots (C3). Additionally, drainage patterns (B10), crayfish burrows (C8), and a positive FAC-Neutral test (D5) were also recorded within the sample plot as secondary hydrology indicators. Therefore, the wetland hydrology criteria is met within this sample plot. It is GEC's opinion that this sample plot is within a wetland, based on the presence of hydrophytic vegetation, hydric soils, and wetland hydrology within the plot (see Data Form Plot - 11).

<u>Sample Plot - 12:</u> Sample Plot 12 is located in the northwestern portion of the property on the river side of the protection levee within the forested batture (Figure 3). The dominant trees within this sample plot include pecan hickory and sugarberry. Other trees occurring but less abundant include common persimmon (*Diospyros virginiana*) and water-locust (*Gleditsia aquatica*). The shrub stratum was dominated by common buttonbush (*Cephalanthus occidentalis*) and swamp privet (*Forestiera acuminate*). Dominant herbaceous vegetation includes small-spike false-nettle (*Boehmeria cylindrical*), redvine (*Brunnichia cirrhosa*), and white heath aster (*Aster pilosus*). The dominant woody vine species include river-bank grape (*Vitis riparia*), trumpet creeper (*Campsis radicans*), and poison ivy (*Toxicodendron radicans*). Saw greenbrier (*Smilax bona-nox*) was also present but was not a dominant. The hydrophytic vegetation criterion is met within this sample plot.

The soils within this plot are mapped as Robinsonville and Commerce series. Both of these series are listed on the National and the Louisiana Hydric Soils lists. Field observations concluded that the hydric soils criterion is met within this plot based on the presence of hydric soil indicators for a depleted matrix. Primary wetland hydrology indicators recorded within this sample plot include water marks (B1), drift deposits (B3), and water-stained leaves (B9). The secondary indicators recorded for this sample plot include drainage patterns (B10), geomorphic position (D2), and a positive FAC-Neutral test (D5). Therefore, the wetland hydrology criteria is met within this sample plot. It is GEC's opinion that this sample plot is within a wetland, based on the presence of hydrophytic vegetation, hydric soils, and wetland hydrology within the plot (see Data Form Plot - 12).

CONCLUSIONS

GEC conducted the field investigations of the property on September 30, October 1, 7, 8, 9, and 15, 2014. The portion of the property located on the river side of the protection levee is highly impacted and influenced by the fluctuation of the river level. The habitat is predominantly forested habitat with some herbaceous and scrub/shrub habitat associated with the many open water borrow ponds located along the toe of the levee. In order to identify the areas of this

portion of the property that would be considered wetlands and other waters under Section 10 of the Rivers and Harbors Act, the ordinary high water elevation was obtained from the Corps of Engineers and any property at or below this elevation was mapped as wetlands or other waters. The ordinary high water elevation for this area is 44 feet, which encompasses 90.8 acres of wetlands and 45.9 acres of other waters. There are a few relatively high ridges paralleling the river that are above the ordinary high water elevation and; therefore, are designated as non-wetland habitat. Additional non-wetland habitat is generally associated with the protection levee as maintained fields. A detailed map of this portion of the property is provided on Figure 3.

The remaining portion of the property south of the protection levee is predominantly pasture or fallow field (south of LA Highway 10). The portion between Ferry Road and LA Highway 10 is utilized for cattle grazing and consists of open field with areas of clustered trees. This area contains many small, narrow wetland drains traversing through the property and several herbaceous wetland depressions, which all encompass approximately 39.3 acres. A long narrow pond encompassing approximately four acres is located in the northeastern portion of the property and associated with this pond and to the west is a ponded forested wetland with bald cypress (Taxodium distichum) as the dominant tree and common buttonbush (Cephalanthus occidentalis) in the shrub stratum. While surveying the property, field biologists observed the excavation of a drainage canal traversing south from this forested wetland through the approximate center of the property along the path of what appeared to be and existing drainage feature. Designated as an other waters and encompassing one acre, this feature is part of an ongoing relief well installation project for the Mississippi River by the Corps of Engineers and Pointe Coupee Parish. Photograph 41 in Appendix B provides a view of this excavated drainage canal facing south from the forested wetland. Another drainage canal designated as other waters and encompassing approximately one acre, traverses along the eastern property boundary to the south where it drains into Bayou Pond. Bayou Pond then meanders west across the property and eventually crosses under LA Highway 10 and cuts across the northwest corner of the property south of LA Highway 10. The portion of Bayou Pond north of LA Highway 10 encompasses 2.3 acres.

The property south of LA Highway 10 is primarily fallow field with two large ponds, a central wetland drain traversing east to west through the property and several smaller wetland drainage swales scattered over the property. The western most pond encompasses 5.1 acres and the eastern pond encompasses 9.7 acres. The wetland drain along with the scattered wetland drainage swales and wetland depressions encompass approximately 7.2 acres. Bayou Pond also cuts through the northwest portion of this property and encompasses 0.6 acres.

Although GEC uses the same criteria and methodology as that of the USACE, due to the degree of subjectivity associated with studies of this type, there may be some degree of variance in the demarcation of the wetland boundary. Consequently, GEC's opinion may not necessarily reflect that of the USACE, nor does it relieve our client of any legal obligations to verify the wetland findings, consult with the USACE, and possibly obtain a Department of the Army permit prior to performing any dredging, filling and/or construction operations in Waters of the United States, including wetlands.

Appendix A DATA FORMS

| Project/Site: Angel Ranch 751 Acres | City/County: Pointe Coupee Sampling Date: Sep 30, 2014 |
|--|--|
| Applicant/Owner: BRAC | State: Louisiana Sampling Point: 1 |
| Investigator(s): B. McCoy, Q. Daigre | Section, Township, Range: <u>Sec 22, 23, & 24; T-4-S; R-10-E</u> |
| Landform (hillslope, terrace, etc.) Pasture (Depression) Loc | |
| Subregion (LRR or MLRA): LRR O Lat: 30°44'26.9 | |
| Soil Map Unit Name: Commerce silty clay loam | |
| Are climatic / hydrologic conditions on the site typical for this time of year? | - |
| Are Vegetation, Soil, or Hydrology significantly disturbed | |
| Are Vegetation, Soil, or Hydrology naturally problematic | |
| , con, con, con justicely,nationally problematic | (in resource, explain any anomore in resonance) |
| SUMMARY OF FINDINGS – Attach site man showing sar | npling point locations, transects, important features, etc. |
| Actual site map showing sta | |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Area |
| Hydric Soil Present? Yes X No | within a Wetland? Yes X No |
| Wetland Hydrology Present? Yes X No | |
| Remarks: | |
| | |
| | |
| | |
| | |
| | |
| 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 High Water Table (A2) Marl Deposits (B15) |) Sparsely Vegetated Concave Surface (B8) (LRR U) Drainage Patterns (B10) |
| Saturation (A3) Hydrogen Sulfide O | |
| | |
| | eres on Living Roots (C3) Dry-Season Water Table (C2) |
| Sediment Deposits (B2) Presence of Reduce | eres on Living Roots (C3) Dry-Season Water Table (C2) ed Iron (C4) Crayfish Burrows (C8) |
| Sediment Deposits (B2) Presence of Reduce | res on Living Roots (C3) ed Iron (C4) on in Tilled Soils (C6) (C7) Dry-Season Water Table (C2) Crayfish Burrows (C8) X Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) |
| Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Presence of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Re | bres on Living Roots (C3) and Iron (C4) brown in Tilled Soils (C6) (C7) brown arms Dry-Season Water Table (C2) Crayfish Burrows (C8) X Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) |
| Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Presence of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference Other (Explain in Reference Other Iron Reduct Thin Muck Surface Iron Reduc | bres on Living Roots (C3) and Iron (C4) brown in Tilled Soils (C6) (C7) brown arks) Dry-Season Water Table (C2) Crayfish Burrows (C8) X Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) X FAC-Neutral Test (D5) |
| Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Presence of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct | bres on Living Roots (C3) and Iron (C4) brown in Tilled Soils (C6) (C7) brown arms Dry-Season Water Table (C2) Crayfish Burrows (C8) X Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) |
| Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Presence of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduce Iron R | bres on Living Roots (C3) and Iron (C4) brown in Tilled Soils (C6) (C7) brown arks) The properties of the provided HTML (C2) The provided HTML (C3) The provided HTML (C4) |
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| Sampling | Point | 1 |
|-----------|---------|---|
| Janipiniq | I UIIIL | |

| | | | | Dominance Test worksheet: |
|---|---------------------------|-------------------|---------------------|--|
| Tree Stratum (Plot size:) | Absolute % Cover | Dominant Species? | Indicator Status | |
| | 76 COVEI | Species: | Status | Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A) |
| 2. | | | | That rice obe; i riew, or i rie. |
| | | | | - Total Number of Dominant |
| | | | | Species Across All Strata: 4 (B) |
| | | | | |
| | | | | Percent of Dominant Species |
| | - | | | That Are OBL, FACW, or FAC:100 (A/B) |
| 7. | | | | Prevalence Index worksheet: |
| 8 | | = Total Cove | | Total % Cover of: Multiply by: |
| 50 % of total cover: 0 | | f total cover: | | OBL species x 1 = |
| 30 % of total cover. | _ 20 /0 0 | i total cover. | | |
| Sapling/Shrub Stratum (Plot size:) | | | | FACW species X 2 = |
| ` | | | | FAC species X 3 = |
| | | | | FACU species X 4 = |
| | | | | UPL species X 5 = |
| | | | | Column Totals: (A) (B) |
| · | | | | - (F) |
| - | | | | |
| 6. | | | | Prevalence Index = B/A = |
| 7. | | - | | Hydrophytic Vegetation Indicators: |
| 8 | | | | 1 – Rapid Test for Hydrophytic Vegetation |
| 50.0% of total account | | = Total Cove | | X 2 – Dominance Test is > 50% |
| 50 % of total cover: 0 | _ 20 % 0 | f total cover: | 0 | 3 – Prevalence Test is ≤ 3.0 ¹ |
| Hank Chratura (Plataina, 201 Badius) | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| Herb Stratum (Plot size: 30' Radius) | 50 | V | ODI | |
| Phanopyrum gymnocarpon (Grass,savannah panic) Phanopyrum gymnocarpon (Grass,savannah panic) | | <u>Y</u> | OBL | ¹ Indicators of hydric soil and wetland hydrology must |
| 2. Panicum rigidulum (Grass,red-top panic) | 40 | <u>Y</u> | FACW | be present, unless disturbed or problematic. |
| 3. Rhynchospora corniculata (Beakrush,short-bristle) | 30 | <u>Y</u> | OBL | Definitions of Vegetation Strata: |
| 4. Spilanthes americana (Spotflower, creeping) | 30 | <u> </u> | FACW | - The Month of the Control of the Co |
| Rubus louisianus (Blackberry,louisiana) | 20 | | FAC | Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. |
| 6. Saururus cernuus (Tail,lizard's) | 20 | | OBL | (7.6 cm) or larger in diameter at breast height (DBH). |
| 7. Hymenocallis occidentalis (Spider-lily,northern) | 5 | | OBL | - |
| | | | | Sapling – Woody plants, excluding woody vines, |
| 9 | | | | approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. |
| 10 | | | | - than 3 m. (7.0 cm) DBH. |
| 1 11 | | | | Shrub – Woody plants, excluding woody vines, |
| 12 | | | | approximately 3 to 20 ft (1 to 6 m) in height. |
| | 195 | = Total Cove | er | Herb – All herbaceous (non-woody) plants, including |
| 50 % of total cover: 97.5 | 20 % o | f total cover: | 39 | herbaceous vines, regardless of size. Includes woody |
| | | | | plants, except woody vines, less than approximately |
| Woody Vine Stratum (Plot size:) | | | | 3 ft (1 m) in height. |
| 1 | | | | - |
| 2 | | | | Woody vine – All woody vines, regardless of height. |
| 3 | | · | | |
| 4 | | · | | |
| 5 | | | | |
| | 0 | = Total Cove | er | |
| 50 % of total cover: 0 | 20 % 0 | f total cover: | 0 | Hydrophytic |
| 00 /0 01 10101 001011 | | | | Vegetation |
| | | | | Present? |
| | | | | |
| Remarks: (Include photo numbers here or on a separate | choot \ | | | |
| Tromaino, (moidde photo humbers here or on a separate | 5110 <i>5</i> 1. <i>j</i> | | | |
| | | | | |
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| • | | | | |

SOIL Sampling Point: 1

| | | | | | | r confirm | the absen | ce of indicators.) | |
|--|---|--------------|------------------|------------------------------|-------------------------|------------|--------------------|------------------------------|------------------------------------|
| Depth (inches) | Color (moist) | % | Color (moist) | Redox Feature % | es Type ¹ | Loc² | Texture | | Remarks |
| | | | | | | | | | Remarks |
| 0-3 | 10YR 3/1 | 99 | 10YR 3-6 | 1 | <u>C</u> | M | Clay | | |
| 3-8 | 2.5Y 4/1 | 99 | 10YR 3/6 | _ 1 | <u> </u> | M | Clay | | |
| 8-18+ | 2.5Y 4/1 | 97 | 10YR 3/6 | 3 | <u>C</u> | M | Clay | _ | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | _ | | | | _ | |
| | | | | | | | | | |
| ¹Type: C=C | oncentration, D=D | epletion, RM | =Reduced Matrix, | CS=Covered | or Coate | d Sand Gr | ains. | ² Location: PL=Po | ore Lining, M=Matrix. |
| Hydric Soil | Indicators: | | | | | | Ind | icators for Proble | ematic Hydric Soils ³ : |
| Histosol | | | Polyvalue F | Below Surface | e (S8) (LF | RR S. T. U | | m Muck (A9) (LRF | • |
| | ipedon (A2) | | | Suface (S9) (I | | | | m Muck (A10) (LR | • |
| Black His | | | | yed Matrix (F | | | | | (outside MLRA 150A,B) |
| | n Sulfide (A4) | | | yed Matrix (F | | ٥, | | | Soils (F19) (LRR P, S, T) |
| | | | | | ۷) | | | omalous Bright Lo | |
| _ | Layers (A5) | D T II) | X Depleted M | | ` | | | • | arriy Solis (F20) |
| | Bodies (A6) (LRR | | | k Surface (F6 | , | | | (MLRA 153B) | (TEO) |
| | cky Mineral (A7) (I | | | ark Surface (| | | | d Parent Material (| • • |
| ·—— | esence (A8) (LRR | | | ressions (F8) | | | | ry Shallow Dark Si | |
| | ck (A9) (LRR P, T | | Marl (F10) | | | 4. | Ot | her (Explain in Rer | narks) |
| | Below Dark Surfa | ce (A11) | | chric (F11) (I | | | - \ | | |
| _ | rk Surface (A12) | /M. D. 450.4 | | nese Masses | | | ¹) ³ _{ln} | dicators of Hydrop | hytic vegetation and |
| _ | airie Redox (A16) | | | face (F13) (L | | U) | | | ust be present, unless |
| _ | ucky Mineral (S1) | (LRR O, S) | | c (F17) (MLR | • | | dis | turbed or problema | atic. |
| Sandy G | leyed Matrix (S4) | | Reduced V | ertic (F18) (N | ILRA 150 | IA, 150B) | | | |
| | | | | | <u> </u> | | | | |
| _ | edox (S5) | | | loodplain Soi | | | | | |
| Stripped | Matrix (S6) | C T II) | | loodplain Soi Bright Loam | | | | 3C, 153D) | |
| Stripped | | S, T, U) | | | | | | 3C, 153D) | |
| Stripped Dark Sur | Matrix (S6) face (S7) (LRR P, | | | | | | | 3C, 153D) | |
| Stripped Dark Sur | Matrix (S6) | | | | y Soils (F | (MLR | A 149A, 15 | | |
| Stripped Dark Sur Restrictive I Type: | Matrix (S6) face (S7) (LRR P, Layer (if observe | | | | y Soils (F | | A 149A, 15 | 3C, 153D) Yes _ | X No |
| Stripped Dark Sur | Matrix (S6) face (S7) (LRR P, Layer (if observe | | | | y Soils (F | (MLR | A 149A, 15 | | X No |
| Stripped Dark Sur Restrictive I Type: | Matrix (S6) face (S7) (LRR P, Layer (if observe | | | | y Soils (F | (MLR | A 149A, 15 | | X No |
| Stripped Dark Sur Restrictive I Type: Depth (in | Matrix (S6) face (S7) (LRR P, Layer (if observe | | | | y Soils (F | (MLR | A 149A, 15 | | X No |
| Stripped Dark Sur Restrictive I Type: Depth (in | Matrix (S6) face (S7) (LRR P, Layer (if observe | | | | y Soils (F | (MLR | A 149A, 15 | | X No |
| Stripped Dark Sur Restrictive I Type: Depth (in | Matrix (S6) face (S7) (LRR P, Layer (if observe | | | | y Soils (F | (MLR | A 149A, 15 | | X No |
| Stripped Dark Sur Restrictive I Type: Depth (in | Matrix (S6) face (S7) (LRR P, Layer (if observe | | | | y Soils (F | (MLR | A 149A, 15 | | X No |
| Stripped Dark Sur Restrictive I Type: Depth (in | Matrix (S6) face (S7) (LRR P, Layer (if observe | | | | y Soils (F | (MLR | A 149A, 15 | | X No |
| Stripped Dark Sur Restrictive I Type: Depth (in | Matrix (S6) face (S7) (LRR P, Layer (if observe | | | | y Soils (F | (MLR | A 149A, 15 | | X No |
| Stripped Dark Sur Restrictive I Type: Depth (in | Matrix (S6) face (S7) (LRR P, Layer (if observe | | | | y Soils (F | (MLR | A 149A, 15 | | X No |
| Stripped Dark Sur Restrictive I Type: Depth (in | Matrix (S6) face (S7) (LRR P, Layer (if observe | | | | y Soils (F | (MLR | A 149A, 15 | | X No |
| Stripped Dark Sur Restrictive I Type: Depth (in | Matrix (S6) face (S7) (LRR P, Layer (if observe | | | | y Soils (F | (MLR | A 149A, 15 | | X No |
| Stripped Dark Sur Restrictive I Type: Depth (in | Matrix (S6) face (S7) (LRR P, Layer (if observe | | | | y Soils (F | (MLR | A 149A, 15 | | XNo |
| Stripped Dark Sur Restrictive I Type: Depth (in | Matrix (S6) face (S7) (LRR P, Layer (if observe | | | | y Soils (F | (MLR | A 149A, 15 | | XNo |
| Stripped Dark Sur Restrictive I Type: Depth (in | Matrix (S6) face (S7) (LRR P, Layer (if observe | | | | y Soils (F | (MLR | A 149A, 15 | | X No |
| Stripped Dark Sur Restrictive I Type: Depth (in | Matrix (S6) face (S7) (LRR P, Layer (if observe | | | | y Soils (F | (MLR | A 149A, 15 | | X No |
| Stripped Dark Sur Restrictive I Type: Depth (in | Matrix (S6) face (S7) (LRR P, Layer (if observe | | | | y Soils (F | (MLR | A 149A, 15 | | X No |
| Stripped Dark Sur Restrictive I Type: Depth (in | Matrix (S6) face (S7) (LRR P, Layer (if observe | | | | y Soils (F | (MLR | A 149A, 15 | | X No |
| Stripped Dark Sur Restrictive I Type: Depth (in | Matrix (S6) face (S7) (LRR P, Layer (if observe | | | | y Soils (F | (MLR | A 149A, 15 | | X No |
| Stripped Dark Sur Restrictive I Type: Depth (in | Matrix (S6) face (S7) (LRR P, Layer (if observe | | | | y Soils (F | (MLR | A 149A, 15 | | X No |
| Stripped Dark Sur Restrictive I Type: Depth (in | Matrix (S6) face (S7) (LRR P, Layer (if observe | | | | y Soils (F | (MLR | A 149A, 15 | | X No |
| Stripped Dark Sur Restrictive I Type: Depth (in | Matrix (S6) face (S7) (LRR P, Layer (if observe | | | | y Soils (F | (MLR | A 149A, 15 | | XNo |
| Stripped Dark Sur Restrictive I Type: Depth (in | Matrix (S6) face (S7) (LRR P, Layer (if observe | | | | y Soils (F | (MLR | A 149A, 15 | | X No |

| Project/Site: Angel Ranch 751 Acres | City/County: Pointe Coupee Sampling Date: Sep 30, 2014 |
|--|---|
| Applicant/Owner: BRAC | State: Louisiana Sampling Point: 2 |
| Investigator(s): B. McCoy, Q. Daigre | |
| Landform (hillslope, terrace, etc.) Pasture Lo | - |
| Subregion (LRR or MLRA): LRR O Lat: 30°43'29. | |
| Soil Map Unit Name: Commerce silty clay loam | |
| Are climatic / hydrologic conditions on the site typical for this time of year? | |
| Are Vegetation, Soil, or Hydrology significantly disturbed | |
| Are Vegetation, Soil, or Hydrologynaturally problematic | |
| | (|
| SUMMARY OF FINDINGS – Attach site map showing sa | mpling point locations, transects, important features, etc. |
| | ,,,,,,,, |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Area |
| Hydric Soil Present? Yes X No | within a Wetland? Yes NoX |
| Wetland Hydrology Present? Yes NoX | |
| Remarks: | |
| | |
| | |
| | |
| | |
| | |
| HYDROLOGY | |
| Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) | Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) |
| Surface Water (A1) Aquatic Fauna (B1) | |
| High Water Table (A2) Marl Deposits (B15 | |
| Saturation (A3) Hydrogen Sulfide C Water Marks (B1) Oxidized Rhizosphe | Odor (C1) Moss Trim Lines (B16) eres on Living Roots (C3) Dry-Season Water Table (C2) |
| Sediment Deposits (B2) Presence of Reduc | ed Iron (C4) Crayfish Burrows (C8) |
| | tion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) |
| Algal Mat or Crust (B4) — Thin Muck Surface Iron Deposits (B5) — Other (Explain in R | |
| 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): | Wetland Hydrology Present? Yes No X |
| Saturation Present? Yes No_X_ Depth (inches): | |
| (includes capillary fringe) | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, processes and processes are processes as a second processes are processed processes as a second processes are processed as a second processes are processes as a second processes are processed as a second processes are processes as a second processe | revious inspections), if available: |
| | |
| Remarks: | |
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| Sam | plina | Point | 2 |
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| alli | pilliq | r on i | _ |

| | | _ | | Dominance Test worksheet: |
|---|---------------|-----------------|-----------|---|
| Tron Ctratum (Diet size) | Absolute | Dominant | Indicator | |
| Tree Stratum (Plot size:) | | Species? | Status | Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A) |
| 1. | | | | That Are OBL, FACW, or FAC: 2 (A) |
| 2. | | | | . Total Number of Dominant |
| 3. | | | | Species Across All Strata: 3 (B) |
| 4 | · ——— | | | Decice Notes All citata. |
| 5 | · | | | Percent of Dominant Species |
| 6 | | | | That Are OBL, FACW, or FAC: 66.7 (A/B) |
| 7 | | | | |
| 8 | | | | Prevalence Index worksheet: |
| | | = Total Cov | | Total % Cover of: Multiply by: |
| 50 % of total cover:0 | 20 % (| of total cover: | 0 | OBL species x 1 = |
| | | | | FACW species X 2 = |
| Sapling/Shrub Stratum (Plot size:) | | | | FAC species X 3 = |
| 1 | | | | FACU species X 4 = |
| 2 | | | | |
| 3 | | | | UPL species X 5 = |
| 4 | | · | | Column Totals: (A) (B) |
| 5 | | | | |
| 6. | | | | Prevalence Index = B/A = |
| 7. | | | | Hydrophytic Vegetation Indicators: |
| 8. | | · | | 1 – Rapid Test for Hydrophytic Vegetation |
| | 0 | = Total Cov | er | |
| 50 % of total cover: 0 | 20 % (| of total cover: | 0 | X 2 – Dominance Test is > 50% |
| | | | | 3 – Prevalence Test is ≤ 3.0 ¹ |
| Herb Stratum (Plot size: 30' Radius) | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| Cynodon dactylon (Grass,bermuda) | 80 | Y | FACU | 1 |
| Axonopus affinis (Grass,southern carpet) | 40 | Y | FACW | Indicators of hydric soil and wetland hydrology must |
| 3. Parthenium hysterophorus (Santa maria feverfew) | 40 | Y | FAC | be present, unless disturbed or problematic. |
| 4. Polygonum hydropiper (Smartweed,marshpepper) | 30 | | OBL | Definitions of Vegetation Strata: |
| 5. Amaranthus spinosus (Amaranth, spiny) | 20 | - | FACU | Tree – Woody plants, excluding woody vines, |
| 6. Iva annua (Sumpweed,annual) | 20 | - | FAC | approximately 20 ft (6 m) or more in height and 3 in. |
| 7. Sida rhombifolia (Sida,arrow-leaf) | 20 | | FACU | (7.6 cm) or larger in diameter at breast height (DBH). |
| Solanum carolinense (Nightshade,carolina) | 20 | · | FACU | Sonling Woody plants, evaluding woody vines |
| Diodia virginiana (Button-weed,virginia) | 15 | | FACW | Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less |
| 10. Xanthium strumarium (Cockle-bur,rough) | 15 | | FAC | than 3 in. (7.6 cm) DBH. |
| 11. | | | TAC | |
| | - | | | Shrub – Woody plants, excluding woody vines, |
| 12 | | | | approximately 3 to 20 ft (1 to 6 m) in height. |
| 50.07 (1.1.) | 300 | = Total Cov | | Herb – All herbaceous (non-woody) plants, including |
| 50 % of total cover:150 | 20 % 0 | of total cover: | 60 | herbaceous vines, regardless of size. Includes woody |
| W 1 1/6 Oc 4 (D) 4 | | | | plants, except woody vines, less than approximately |
| Woody Vine Stratum (Plot size:) | | | | 3 ft (1 m) in height. |
| 1 | | | | Woody vine – All woody vines, regardless of height. |
| 2. | | | | Tion of the state |
| 3 | | | | |
| 4 | · | | | |
| 5 | | | | |
| | 0 | = Total Cov | er | |
| 50 % of total cover:0 | 20 % (| of total cover: | 0 | Hydrophytic |
| | _ | | | Vegetation |
| | | | | Present? |
| | | | | |
| Demarks (Indude phote numbers here or on a concrete | aboot \ | | | <u> </u> |
| Remarks: (Include photo numbers here or on a separate | e sneet.) | | | |
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SOIL Sampling Point: 2

| | ription: (Describe | to the depth | | | | or confirm | the absence | of indicat | ors.) | | |
|------------------------|---|--------------|-------------------|--|-------------------|-------------------|---------------------|---------------|----------------|-----------|-----------------|
| Depth (inches) | Matrix Color (moist) | % | Color (moist) | edox Feature % | Type ¹ | Loc ² | Texture | | R | emarks | |
| 0-6 | 10YR 3/2 | 99 | 10YR 3/6 | 1 | С | M | Clay | | | CITICINO | <u>'</u> |
| 6-18+ | 10YR 4/1 | | 10YR 3/6 | 2 | | | | | | | |
| 0-10+ | 1011 4/1 | 97 | | | | M | Clay | - | | | |
| | | | 10YR 4/6 | | <u>C</u> | M | Clay | | | | · |
| | | | | · —— | | | | - | | | |
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| | | | | | | | | | | | |
| ¹ Type: C=C | oncentration, D=De | pletion, RM= | Reduced Matrix, C | S=Covered | or Coate | d Sand Gra | ains. ² | Location: F | L=Pore | e Lining | , M=Matrix. |
| Hydric Soil | Indicators: | | | | | | Indic | ators for P | oblem | atic Hy | dric Soils³: |
| Histosol | (A1) | | Polyvalue B | elow Surface | (S8) (Ll | RR S, T, U) | 1 cm | Muck (A9) | (LRR (|) | |
| Histic Ep | ipedon (A2) | | Thin Dark S | uface (S9) (I | RR S, T | , U) | 2 cm | Muck (A10 |) (LRR | S) | |
| Black His | stic (A3) | | Loamy Gley | ed Matrix (F | 1) (LRR (| O) | Redu | uced Vertic | (F18) (| outside | MLRA 150A,B) |
| Hydroger | n Sulfide (A4) | | Loamy Gley | ed Matrix (F | 2) | | Pied | mont Flood | olain So | oils (F19 |) (LRR P, S, T) |
| Stratified | Layers (A5) | | X Depleted Ma | atrix (F3) | | | Anor | malous Brig | ht Loan | ny Soils | (F20) |
| Organic I | Bodies (A6) (LRR P | , T, U) | Redox Dark | Surface (F6 |) | | (N | ILRA 153B |) | | |
| 5 cm Mud | cky Mineral (A7) (Li | RR P, T, U) | Depleted Da | ırk Surface (| F7) | | Red | Parent Mat | erial (T | F2) | |
| Muck Pre | esence (A8) (LRR U | l) | Redox Depr | essions (F8) | | | Very | Shallow Da | rk Surf | ace (TF | 12) |
| 1 cm Mud | ck (A9) (LRR P, T) | | Marl (F10) (I | LRR U) | | | Othe | er (Explain i | n Rema | rks) | |
| Depleted | Below Dark Surfac | e (A11) | Depleted Oc | chric (F11) (N | /ILRA 15 | 1) | | | | | |
| Thick Da | rk Surface (A12) | | Iron Mangar | ese Masses | (F12) (L | .RR O, P, T |) 3 _{Indi} | cators of Hy | dronhy | tic vege | etation and |
| Coast Pra | airie Redox (A16) (I | VILRA 150A) | | | | U) | | | | | sent, unless |
| Sandy M | ucky Mineral (S1) (I | LRR O, S) | Delta Ochric | (F17) (MLR | A 151) | | distu | irbed or pro | olemati | C. | |
| Sandy G | eyed Matrix (S4) | | Reduced Ve | Reduced Vertic (F18) (MLRA 150A, 150B) | | | | | | | |
| Sandy Re | edox (S5) | | Piedmont Fl | oodplain Soi | ls (F19) (| MLRA 149 | A) | | | | |
| | Matrix (S6) face (S7) (LRR P, S | S, T, U) | Anomalous | Bright Loam | y Soils (F | (20) (MLRA | 149A, 1530 | C, 153D) | | | |
| Restrictive I | Layer (if observed |) : | | | | | | | | | |
| Type: | | | | | Hyd | ric Soil Pre | esent? | Ye | es | X | No |
| Depth (in | ches): | | <u></u> | | | | | | | | |
| Remarks: | | | | | | | | | | | |
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| Project/Site: Angel Ranch 751 Acres | City/County: Pointe Coupee Sampling Date: Oct 1, 2014 |
|---|--|
| Applicant/Owner: BRAC | State: Louisiana Sampling Point: 3 |
| | Section, Township, Range: Sec 22, 23, & 24; T-4-S; R-10-E |
| Landform (hillslope, terrace, etc.) Pasture Depression Loc | - |
| Subregion (LRR or MLRA): LRR O Lat: 30°43'41.2 | |
| | NWI Classification: |
| Are climatic / hydrologic conditions on the site typical for this time of year? | <u>-</u> |
| Are Vegetation, Soil, or Hydrology significantly disturbed | |
| Are Vegetation, Soil, or Hydrology naturally problematic | |
| | (,,, |
| SUMMARY OF FINDINGS – Attach site man showing sar | mpling point locations, transects, important features, etc. |
| | |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Area |
| Hydric Soil Present? Yes X No | within a Wetland? Yes NoX |
| Wetland Hydrology Present? Yes No _X | |
| Remarks: | |
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| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B13 | Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) |
| High Water Table (A2) Marl Deposits (B15) | (LRR U) Drainage Patterns (B10) |
| Saturation (A3) Hydrogen Sulfide O Water Marks (B1) Oxidized Rhizosphe | dor (C1) Moss Trim Lines (B16) eres on Living Roots (C3) Dry-Season Water Table (C2) |
| Sediment Deposits (B2) Presence of Reduce | |
| Drift Deposits (B3) Recent Iron Reducti | ion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) |
| Algal Mat or Crust (B4) Thin Muck Surface Iron Deposits (B5) Other (Explain in Re | |
| Inundation Visible on Aerial Imagery (B7) | X 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): | Wetland Hydrology Present? Yes No X |
| Saturation Present? Yes No X Depth (inches): | Notable Hydrology 11030111. |
| (includes capillary fringe) | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr | evious inspections), if available: |
| | |
| Remarks: | |
| | |
| Nomano. | |
| Tomano. | |
| Tromano. | |

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|---|-----------------|-----------------|--------------|--|-----------------|-------------|
| | Absolute | Dominant | Indicator | Dominance Test worksheet: | | |
| Tree Stratum (Plot size:) | | Species? | Status | Number of Dominant Species | | |
| 1 | | | | That Are OBL, FACW, or FAC | :2 | (A) |
| 2 | | | | . | | |
| 3 | | | | Total Number of Dominant Species Across All Strata: | 2 | (B) |
| 4 | | | | - Opecies Across Air Strata. | | _ (D) |
| 5 | | | | Percent of Dominant Species | | |
| 6 7. | | | | That Are OBL, FACW, or FAC | : 100 | (A/B) |
| 7 8. | | | | Prevalence Index worksheet: | | |
| · | 0 | = Total Cov | er | Total % Cover of: | Multiply by: | |
| 50 % of total cover: 0 | | | | OBL species | x 1 = | |
| | | | | FACW species | X 2 = | |
| Sapling/Shrub Stratum (Plot size:) | | | | FAC species | X 3 = | |
| 1 | | | | FACU species | X 4 = | |
| 2 | | | | UPL species | X 5 = | |
| 3 | | | | | | |
| 4 | | | | Column Totals: | (A) | (D) |
| 5 6. | | | | | | |
| | | | | Prevalence Index = | | |
| 7 | | | | Hydrophytic Vegetation Indica | | |
| · | | = Total Cov | er | 1 – Rapid Test for Hydrophy | _ | |
| 50 % of total cover: 0 | | of total cover: | | X 2 – Dominance Test is > 50% | | |
| | | | | 3 – Prevalence Test is ≤ 3.0 | | |
| Herb Stratum (Plot size: 30' Radius) | | | | Problematic Hydrophytic Veg | jetation' (Expl | ain) |
| | | <u> </u> | | ¹ Indicators of hydric soil and w | etland hydrolo | av must |
| Iva annua (Sumpweed,annual) | 45 | Y | FAC | be present, unless disturbed of | | |
| 3. Cynodon dactylon (Grass,bermuda) | 40 | | FACU | Definitions of Vegetation Stra | ta: | |
| Spilanthes americana (Spotflower, creeping) Diodia virginiana (Button-weed, virginia) | <u>20</u> 15 | - | FACW FACW | . Tree – Woody plants, excluding | woody vines | |
| 5. Diodia virginiana (Button-weed,virginia)6. Axonopus affinis (Grass,southern carpet) | 10 | | FACW | approximately 20 ft (6 m) or mo | | d 3 in. |
| 7. Phyla lanceolata (Frog-fruit,lance-leaf) | 10 | | FACW | (7.6 cm) or larger in diameter at | breast height | (DBH). |
| Aster adnatus (Chain-leaf aster) | 5 | | FACW | Sapling – Woody plants, exclude | ding woody vin | 00 |
| Solanum carolinense (Nightshade,carolina) | 5 | | FACU | approximately 20 ft (6 m) or mo | | |
| 10 | | | | than 3 in. (7.6 cm) DBH. | | |
| 11. | | | | Shrub – Woody plants, excluding | na woody vines | S. |
| 12. | | | | approximately 3 to 20 ft (1 to 6 | , | -, |
| | 215 | = Total Cov | er | Harb All barbassaus (non wo | adul alanta inc | ماريطانم |
| 50 % of total cover:107.5 | 20 % c | of total cover: | 43 | Herb – All herbaceous (non-wo herbaceous vines, regardless o | | |
| Manda Vina Charters (Districts) | | | | plants, except woody vines, less | s than approxir | mately |
| Woody Vine Stratum (Plot size:) 1. | | | | 3 ft (1 m) in height. | | |
| 2 | | | | Woody vine - All woody vines, | regardless of | height. |
| 3. | | | | | | |
| 4. | | | | • | | |
| 5. | | | | | | |
| | 0 | = Total Cov | er | | | |
| 50 % of total cover: 0 | 20 % 0 | of total cover: | 0 | Hydrophytic | | |
| | _ | | | Vegetation Present? Yes | X No | |
| | | | | Tresent: Tes | <u> </u> | |
| | | | | | | |
| Remarks: (Include photo numbers here or on a separate | sheet.) | | | • | | |
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SOIL Sampling Point: 3

| Depth | | | In necaca to doca | ment the I | ndicator d | or contirn | n the absence | or indicators | . , | |
|-------------------------|----------------------------------|---|---|--|--------------------------|------------------|-----------------------|---------------|------------|-----------------------------|
| (inches) | Color (moist) | % | Color (moist) | edox Featu % | res Type ¹ | Loc ² | Texture | | Rema | arks |
| 0-2 | 10YR 3/2 | 100 | | | N/A | N/A | Clay Loam | | TTOTAL | arko |
| 2-6 | 2.5Y 3/1 | 97 | 7.5YR 5/8 | 1 | C | | | | | |
| | 2.51 3/1 | | • | | | <u>M</u> | Clay | | | |
| | 0.5)/.0/4 | | 10YR 4/6 | 2 | | M | Clay | | | |
| 6-18 | 2.5Y 3/1 | 94 | 7.5YR 5/8 | 4 | <u> </u> | M | Clay | | | |
| | | | 10YR 4/6 | 2 | C | M | Clay | | | |
| | | | | | | - | | | | |
| | | | | | | | | | | |
| ¹ Type: C=Co | oncentration, D=D | epletion, RM | =Reduced Matrix, C | S=Covere | d or Coate | d Sand G | rains. ² L | ocation: PL= | =Pore Lir | ning, M=Matrix. |
| Hydric Soil I | Indicators: | | | | | | Indica | tors for Prol | olematic | Hydric Soils ³ : |
| Histosol (| (A1) | | Polyvalue Below Surface (S8) (LRR S, T, U)1 cm Muck (A9) (LRR O) | | | | | | | |
| Histic Epi | ipedon (A2) | | Thin Dark Suface (S9) (LRR S, T, U) 2 cm Muck (A10) (LRR S) | | | | | | | |
| Black His | stic (A3) | | Loamy Gleyed Matrix (F1) (LRR O)Reduced Vertic (F18) (outside MLI | | | | | | | side MLRA 150A, |
| Hydroger | n Sulfide (A4) | | Loamy Gleye | Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (LRF | | | | | | |
| Stratified | Layers (A5) | | Depleted Ma | atrix (F3) | | | Anom | alous Bright | Loamy S | ioils (F20) |
| Organic E | Bodies (A6) (LRR | P, T, U) | X Redox Dark | Surface (F | 6) | | (MI | -RA 153B) | | |
| 5 cm Mud | cky Mineral (A7) (L | .RR P, T, U) | Depleted Da | rk Surface | (F7) | | Red F | arent Materi | al (TF2) | |
| Muck Pre | esence (A8) (LRR | U) | Redox Depre | essions (F8 | 3) | | Very \$ | Shallow Dark | Surface | (TF12) |
| 1 cm Mud | ck (A9) (LRR P, T) |) | Marl (F10) (I | LRR U) | | | Other | (Explain in F | Remarks) | 1 |
| Depleted | Below Dark Surfa | ce (A11) | Depleted Oc | hric (F11) | (MLRA 15 | 1) | | | | |
| Thick Da | rk Surface (A12) | | Iron Mangan | ese Masse | es (F12) (L | RR O, P, | T) 3Indic | ators of Hydr | onhytic y | regetation and |
| Coast Pra | airie Redox (A16) | (MLRA 150A |)Umbric Surfa | ace (F13) (| LRR P, T, | U) | | | | present, unless |
| Sandy Mi | ucky Mineral (S1) | (LRR O, S) | Delta Ochric | (F17) (ML | RA 151) | | | bed or proble | | |
| Sandy GI | eyed Matrix (S4) | | Reduced Ve | rtic (F18) (| MLRA 150 | A, 150B) | | | | |
| Sandy Re | edox (S5) | Piedmont Floodplain Soils (F19) (MLRA 149A) | | | | | | | | |
| | | | | | | OO\ /841 B | A 1/0A 153C | 4505 | | |
| Stripped | Matrix (S6) face (S7) (LRR P. | S, T, U) | Anomalous I | Bright Loan | ny Soils (F | 20) (MLR | A 149A, 133C, | 153D) | | |
| Stripped Dark Surf | face (S7) (LRR P, | | Anomalous I | Bright Loan | ny Soils (F | 20) (MLR | | 153D) | | |
| Stripped Dark Surf | ` ' | | Anomalous B | Bright Loan | | | | | v | No. |
| Stripped Dark Surf | face (S7) (LRR P, | | Anomalous B | Bright Loan | | ric Soil P | | 153D) Yes | X | No |
| Stripped Dark Surf | face (S7) (LRR P, | | Anomalous I | Bright Loan | | | | | x | No |
| Stripped Dark Surf | face (S7) (LRR P, | | Anomalous B | Bright Loan | | | | | X | No |
| Stripped Dark Surf | face (S7) (LRR P, | | Anomalous B | Bright Loan | | | | | x | No |
| Stripped Dark Surf | face (S7) (LRR P, | | Anomalous B | Bright Loan | | | | | x | No |
| Stripped Dark Surf | face (S7) (LRR P, | | Anomalous B | Bright Loan | | | | | X | No |
| Stripped Dark Surf | face (S7) (LRR P, | | Anomalous B | Bright Loan | | | | | X | No |
| Stripped Dark Surf | face (S7) (LRR P, | | Anomalous B | Bright Loan | | | | | X | No |
| Stripped Dark Surf | face (S7) (LRR P, | | Anomalous B | Bright Loan | | | | | X | No |
| Stripped Dark Surf | face (S7) (LRR P, | | Anomalous B | Bright Loan | | | | | X | No |
| Stripped Dark Surf | face (S7) (LRR P, | | Anomalous B | Bright Loan | | | | | X | No |
| Stripped Dark Surf | face (S7) (LRR P, | | Anomalous B | Bright Loan | | | | | X | No |
| Stripped Dark Surf | face (S7) (LRR P, | | Anomalous B | Bright Loan | | | | | X | No |
| Stripped Dark Surf | face (S7) (LRR P, | | Anomalous B | Bright Loan | | | | | X | No |
| Stripped Dark Surf | face (S7) (LRR P, | | Anomalous B | Bright Loan | | | | | X | No |
| Stripped Dark Surf | face (S7) (LRR P, | | Anomalous B | Bright Loan | | | | | X | No |
| Stripped Dark Surf | face (S7) (LRR P, | | Anomalous B | Bright Loan | | | | | X | No |
| Stripped Dark Surf | face (S7) (LRR P, | | Anomalous B | Bright Loan | | | | | X | No |
| Stripped Dark Surf | face (S7) (LRR P, | | Anomalous B | Bright Loan | | | | | X | No |
| Stripped Dark Surf | face (S7) (LRR P, | | Anomalous B | Bright Loan | | | | | X | No |
| Stripped Dark Surf | face (S7) (LRR P, | | Anomalous B | Bright Loan | | | | | X | No |
| Stripped Dark Surf | face (S7) (LRR P, | | Anomalous B | Bright Loan | | | | | X | No |

| Project/Site: Angel Ranch 751 Acres | City/County: Pointe Coupee Sampling Date: Oct 1, 2014 |
|---|--|
| Applicant/Owner: BRAC | State: Louisiana Sampling Point: 4 |
| Investigator(s): B. McCoy, Q. Daigre | |
| Landform (hillslope, terrace, etc.) Pasture Loc | - |
| Subregion (LRR or MLRA): LRR O Lat: 30°44'17.5 | ' |
| Soil Map Unit Name: Commerce silt loam | |
| Are climatic / hydrologic conditions on the site typical for this time of year? | <u> </u> |
| Are Vegetation, Soil, or Hydrology significantly disturbed | - |
| Are Vegetation, Soil, or Hydrology naturally problematic | |
| <u> </u> | (, ,, ,, ,, ,, ,, ,, , |
| SUMMARY OF FINDINGS – Attach site man showing sar | mpling point locations, transects, important features, etc. |
| Actual site map showing sta | point rodutorio, transcoto, important reatures, etc. |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Area |
| Hydric Soil Present? Yes X No | within a Wetland? Yes NoX_ |
| Wetland Hydrology Present? Yes NoX | |
| Remarks: | |
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| | |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B13 | Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) |
| High Water Table (A2) Addatic Fadria (B13) Marl Deposits (B15) | |
| Saturation (A3) Hydrogen Sulfide O | |
| Water Marks (B1) — Oxidized Rhizosphe Sediment Deposits (B2) — Presence of Reduce | eres on Living Roots (C3) Dry-Season Water Table (C2) ed Iron (C4) Crayfish Burrows (C8) |
| | ion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) |
| Algal Mat or Crust (B4) Thin Muck Surface | |
| Iron Deposits (B5) Other (Explain in Re Inundation Visible on Aerial Imagery (B7) | emarks) Shallow Aquitard (D3) X 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 Hydrology Present? Yes No _X_ |
| (includes capillary fringe) | |
| | |
| Describe Recorded Data (stream gauge monitoring well periol photos pr | ovious inapostions) if available: |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr | evious inspections), if available: |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr | evious inspections), if available: |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr Remarks: | evious inspections), if available: |
| | evious inspections), if available: |

| | | | | Dominance Test worksheet: |
|---|----------|----------------|-----------|---|
| | Absolute | Dominant | Indicator | |
| Tree Stratum (Plot size: 30' Radius) | | Species? | Status | Number of Dominant Species |
| Quercus pagoda (Oak,cherry-bark) | 50 | <u>Y</u> | FAC | That Are OBL, FACW, or FAC:4 (A) |
| Carya illinoensis (Hickory,pecan) | 40 | <u>Y</u> | FAC | Total Nevel on of Developed |
| Ulmus americana (Elm,american) | 30 | <u> </u> | FACW | Total Number of Dominant Species Across All Strata: 5 (B) |
| Quercus nigra (Oak,water) | 25 | | FAC | Species Across Air Strata(B) |
| 5 | | | | Percent of Dominant Species |
| 6 | | | | That Are OBL, FACW, or FAC: 80 (A/B) |
| 7 | | | | |
| 8 | | | | Prevalence Index worksheet: Total % Cover of: Multiply by: |
| 50.0% of total account 70.5 | | = Total Cove | | |
| 50 % of total cover: <u>72.5</u> | _ 20 % 0 | f total cover: | 29 | OBL species x 1 = |
| Sapling/Shrub Stratum (Plot size:) | | | | FACW species X 2 = |
| | | | | FAC species X 3 = |
| | | | | FACU species X 4 = |
| | | | | UPL species X 5 = |
| | | | | Column Totals: (A) (B) |
| | | | | |
| 6. | | | | Describeron Ladour B/A |
| 7. | | | | Prevalence Index = B/A = |
| 8. | | | | Hydrophytic Vegetation Indicators: |
| | 0 | = Total Cove | er | 1 – Rapid Test for Hydrophytic Vegetation |
| 50 % of total cover: 0 | | f total cover: | 0 | X 2 – Dominance Test is > 50% |
| | _ | | | 3 – Prevalence Test is ≤ 3.0 ¹ |
| Herb Stratum (Plot size: 30' Radius) | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| Cynodon dactylon (Grass,bermuda) | 50 | Y | FACU | 11 of set and of hoods and hoods and hoods are not |
| Polygonum hydropiper (Smartweed,marshpepper) | 40 | Υ | OBL | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or probl matic. |
| 3. Sida rhombifolia (Sida,arrow-leaf) | 20 | | FACU | Definitions of Vegetation Strata: |
| 4. Elephantopus carolinianus (Elephant-foot,carolina) | 10 | | FAC | |
| 5 | | | | Tree – Woody plants, excluding woody vines, |
| 6 | | | | approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). |
| 7 | | | | (7.0 cm) of larger in diameter at breast height (BBH). |
| 8. | | | | Sapling – Woody plants, excluding woody vines, |
| 9 | | | | approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. |
| 10 | | | | tilali 3 iii. (7.0 cili) DBH. |
| 11 | | | | Shrub – Woody plants, excluding woody vines, |
| 12 | | | | approximately 3 to 20 ft (1 to 6 m) in height. |
| | 120 | = Total Cove | | Herb – All herbaceous (non-woody) plants, including |
| 50 % of total cover: 60 | _ 20 % c | f total cover: | 24 | herbaceous vines, regardless of size. Includes woody |
| Woody Vino Stratum (Diet size: | | | | plants, except woody vines, less than approximately |
| Woody Vine Stratum (Plot size:) | | | | 3 ft (1 m) in height. |
| 1 | | | | Woody vine – All woody vines, regardless of height. |
| | | | | , , , , |
| | | | | |
| | | | | |
| 5 | | | | |
| | 0 | | | Hydrophytic |
| 50 % of total cover: 0 | _ 20 % c | f total cover: | 0 | Vegetation |
| | | | | Present? Yes X No |
| | | | | |
| Devente (feeleste plate en la la | -11 | | | |
| Remarks: (Include photo numbers here or on a separate | sheet.) | | | |
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SOIL Sampling Point: 4

| | cription: (Describe | to the dept | h needed to docu | ment the ir | ndicator o | r confirm | the absence | of indicators | s.) | |
|------------------------|-----------------------------|--------------|--|--|--------------------------|------------------|-----------------------|---------------|-----------|-----------------------------|
| Depth (inches) | Matrix Color (moist) | % | Color (moist) | edox Featur | res Type ¹ | Loc ² | Texture | | Rema | arks |
| 0-1 | 10YR 3/1 | | Color (moist) | | N/A | N/A | Silt Loam | | TTOTTIC | ano - |
| | | | 10VP 4/6 | | | | | | | |
| 1-8 | 10YR 4/1 | 98 | 10YR 4/6 | | | M | Clay | | | |
| 8-18+ | 10YR 3/1 | 97 | 10YR 4/6 | | | M | Clay | | | |
| | | | 10YR 3/6 | 2 | C | M | Clay | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| ¹ Type: C=C | oncentration, D=De | pletion, RM= | Reduced Matrix, C | S=Covered | d or Coate | d Sand G | rains. ² L | ocation: PL= | Pore Lin | ing, M=Matrix. |
| Hydric Soil | Indicators: | | | | | | Indica | tors for Prob | lematic | Hydric Soils ³ : |
| Histosol (| (A1) | | Polyvalue Be | Polyvalue Below Surface (S8) (LRR S, T, U)1 cm Muck (A9) (LRR O) | | | | | | |
| Histic Epi | ipedon (A2) | | Thin Dark Suface (S9) (LRR S, T, U)2 cm Muck (A10) (LRR S) | | | | | | | |
| Black His | tic (A3) | | Loamy Gleyed Matrix (F1) (LRR O) Reduced Vertic (F18) (outside M | | | | | | | ide MLRA 150A,B) |
| Hydroger | Sulfide (A4) | | Loamy Gleye | Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) | | | | | | |
| Stratified | Layers (A5) | | X Depleted Ma | X Depleted Matrix (F3) Anomalous Bright Loamy Soils (| | | | | | |
| Organic I | Bodies (A6) (LRR P | , T, U) | Redox Dark | Redox Dark Surface (F6) (MLRA 153B) | | | | | | |
| 5 cm Mud | cky Mineral (A7) (LF | RR P, T, U) | Depleted Da | rk Surface | (F7) | | Red F | arent Materia | al (TF2) | |
| Muck Pre | esence (A8) (LRR U |) | Redox Depre | essions (F8 | 3) | | Very S | Shallow Dark | Surface | (TF12) |
| 1 cm Mud | ck (A9) (LRR P, T) | | Marl (F10) (L | _RR U) | | | Other | (Explain in R | emarks) | |
| Depleted | Below Dark Surface | e (A11) | Depleted Oc | hric (F11) (| MLRA 15 | 1) | | | | |
| Thick Da | rk Surface (A12) | | Iron Mangan | ese Masse | s (F12) (L | RR O, P, | T) 3 _{Indic} | ators of Hydr | onbytic v | egetation and |
| Coast Pra | airie Redox (A16) (N | ILRA 150A | Umbric Surfa | ace (F13) (I | LRR P, T, | U) | | | | present, unless |
| Sandy M | ucky Mineral (S1) (L | RR O, S) | Delta Ochric | (F17) (MLI | RA 151) | | | bed or proble | | · |
| Sandy GI | eyed Matrix (S4) | | Reduced Ve | rtic (F18) (I | MLRA 150 | A, 150B) | | | | |
| Sandy Re | edox (S5) | | Piedmont Flo | oodplain Sc | oils (F19) (| MLRA 14 | 9A) | | | |
| | Matrix (S6) | | Anomalous E | Bright Loam | ny Soils (F | 20) (MLR | A 149A, 153C, | 153D) | | |
| Dark Sur | face (S7) (LRR P, S | 5, T, U) | | | | | | | | |
| | _ayer (if observed) |): | | | | | | | | |
| Type: | ahaa): | | <u></u> | | Hyd | ric Soil P | resent? | Yes | X | No |
| Depth (in | | | | | | | | | | |
| Remarks: | | | | | | | | | | |
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| Project/Site: Angel Ranch 751 Acres | City/County: Pointe Coupee Sampling Date: Oct 1, 2014 |
|--|---|
| Applicant/Owner: BRAC | State: Louisiana Sampling Point: 5 |
| Investigator(s): B. McCoy, Q. Daigre | |
| Landform (hillslope, terrace, etc.) Pasture Depression Loc | |
| Subregion (LRR or MLRA): LRR O Lat: 30°44'10" | N Long: 91°24'45" W Datum: NAD 83 |
| | NWI Classification: |
| Are climatic / hydrologic conditions on the site typical for this time of year? | |
| Are Vegetation, Soil, or Hydrologysignificantly disturbed | d? Are "Normal Circumstances" present? Yes X No |
| Are Vegetation, Soil, or Hydrology naturally problematic | |
| | |
| SUMMARY OF FINDINGS – Attach site map showing sai | mpling point locations, transects, important features, etc. |
| | |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Area |
| Hydric Soil Present? Yes X No | |
| Wetland Hydrology Present? Yes X No | |
| Remarks: | |
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| LIVEROLOGY | |
| 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 | |
| High Water Table (A2) X Saturation (A3) Marl Deposits (B15) Hydrogen Sulfide O | |
| Water Marks (B1) X Oxidized Rhizosphe | eres on Living Roots (C3) Dry-Season Water Table (C2) |
| Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduction | ed Iron (C4) X Crayfish Burrows (C8) ion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) |
| Algal Mat or Crust (B4) Algal Mat or Crust (B4) Thin Muck Surface | |
| Iron Deposits (B5) Other (Explain in Re | |
| Inundation Visible on Aerial Imagery (B7) X Water-Stained Leaves (B9) | X FAC-Neutral Test (D5) 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 X No Depth (inches): 0-6 | Wetland Hydrology Present? Yes X No |
| (includes capillary fringe) | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr | ravious inspections) if available: |
| Describe Necorded Data (Stream gauge, monitoring well, aerial priotos, pr | evious inspections), il available. |
| | |
| | |
| Remarks: | |

SOIL Sampling Point: 5

| | ription: (Describe | | | | | r confirm | the absence | of indicate | rs.) | |
|------------------------|--|---------------|---|--|-------------------------|------------------|----------------------|---------------|------------------|----------------------------|
| Depth (inches) | Color (moist) | % | Color (moist) | edox Featur % | es Type ¹ | Loc ² | Texture | | Rem | arks |
| 0-2 | 10YR 3/1 | 98 | 10YR 4/6 | 2 | С | M | Clay | - | TOIL | diko |
| 2-8 | N 4/ | 89 | 5YR 4/6 | 8 | | M | Clay | | | - |
| | 11 4/ | | | . —— | | | | | | |
| | 0.577.074 | | 10YR 4/6 | 3 | | M | Clay | | | |
| 8-18+ | 2.5Y 3/1 | 95 | 7.5YR 3/4 | 5 | C | M | Clay | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| ¹ Type: C=C | oncentration, D=De | epletion, RM= | Reduced Matrix, C | CS=Covered | or Coate | d Sand Gra | ains. ² l | Location: P | L=Pore Li | ning, M=Matrix. |
| Hydric Soil | Indicators: | | | | | | Indica | ators for Pr | oblematio | : Hydric Soils³: |
| Histosol | (A1) | | Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (A9) (LRR O) | | | | | | | |
| Histic Ep | ipedon (A2) | | Thin Dark Suface (S9) (LRR S, T, U)2 cm Muck (A10) (LRR S) | | | | | | | |
| Black His | tic (A3) | | Loamy Gleyed Matrix (F1) (LRR O)Reduced Vertice | | | | | | F18) (out | side MLRA 150A,B) |
| Hydrogei | Sulfide (A4) | | Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F1) | | | | | | | (F19) (LRR P, S, T) |
| Stratified | Layers (A5) | | Depleted Ma | Depleted Matrix (F3)Anomalous Bright Loamy | | | | | | |
| Organic I | Bodies (A6) (LRR F | P, T, U) | X Redox Dark | Surface (F6 | 6) | | (M | LRA 153B) | | |
| 5 cm Mu | cky Mineral (A7) (L | RR P, T, U) | Depleted Da | rk Surface (| (F7) | | Red | Parent Mate | rial (TF2) | |
| Muck Pre | esence (A8) (LRR l | J) | Redox Depr | essions (F8 |) | | Very | Shallow Da | rk Surface | e (TF12) |
| 1 cm Mu | ck (A9) (LRR P, T) | | Marl (F10) (| LRR U) | | | Othe | r (Explain in | Remarks |) |
| Depleted | Below Dark Surface | ce (A11) | Depleted Oc | chric (F11) (I | MLRA 15 | 1) | | | | |
| Thick Da | rk Surface (A12) | | Iron Mangar | nese Masse | s (F12) (L | RR O, P, T |) 3 _{Indic} | cators of Hy | drophytic | vegetation and |
| Coast Pr | airie Redox (A16) (| MLRA 150A) | Umbric Surf | ace (F13) (L | RR P, T, | U) | | | | present, unless |
| Sandy M | ucky Mineral (S1) (| LRR O, S) | Delta Ochric | (F17) (MLF | RA 151) | | distu | rbed or prob | lematic. | |
| Sandy G | eyed Matrix (S4) | | Reduced Ve | ertic (F18) (N | /ILRA 150 | A, 150B) | | | | |
| Sandy R | edox (S5) | | Piedmont Fl | oodplain So | ils (F19) (| MLRA 149 | A) | | | |
| | Matrix (S6) face (S7) (LRR P, \$ | S, T, U) | Anomalous | Bright Loam | y Soils (F | 20) (MLRA | 149A, 153C | i, 153D) | | |
| Restrictive | _ayer (if observed | ١٠- | | | 1 | | | | | |
| Type: | Layer (II Observed | ·)- | | | Hyd | ric Soil Pre | esent? | Ye | s X | No |
| Depth (in | ches): | | | | | | | | | |
| Remarks: | | | | | | | | | | |
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| Project/Site: Angel Ranch 751 Acres | City/County: Pointe Coupee Sampling Date: Oct 8, 2014 | | | | | | |
|--|--|--|--|--|--|--|--|
| Applicant/Owner: BRAC | State: Louisiana Sampling Point: 6 | | | | | | |
| Investigator(s): B. McCoy | Section, Township, Range: Sec 22, 23, & 24; T-4-S; R-10-E | | | | | | |
| Landform (hillslope, terrace, etc.) Pasture Depression Loc | cal relief (concave, convex, none): concave Slope (%): 0 | | | | | | |
| Subregion (LRR or MLRA): LRR O Lat: 30°43'29.3 | " N Long: 91°24'56.2" W Datum: NAD 83 | | | | | | |
| Soil Map Unit Name: Mhoon silty clay loam | | | | | | | |
| 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 Circumstances" present? Yes X No | | | | | | |
| Are Vegetation, Soil, or Hydrology naturally problematic | | | | | | | |
| <u> </u> | | | | | | | |
| SUMMARY OF FINDINGS – Attach site man showing sar | npling point locations, transects, important features, etc. | | | | | | |
| Actual site map showing sta | | | | | | | |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Area | | | | | | |
| Hydric Soil Present? Yes X No | within a Wetland? Yes X No | | | | | | |
| Wetland Hydrology Present? Yes X No | | | | | | | |
| Remarks: | | | | | | | |
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| LIVERGLOOV | | | | | | | |
| HYDROLOGY | On an advantage for directions (1975) and a section of the control | | | | | | |
| Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) | Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) | | | | | | |
| Surface Water (A1) Aquatic Fauna (B13) | | | | | | | |
| High Water Table (A2) Marl Deposits (B15) | (LRR U) Drainage Patterns (B10) | | | | | | |
| Saturation (A3) Hydrogen Sulfide O | Saturation (A3) Hydrogen Sulfide Odor (C1) Main Deposits (B15) (LRR 0) Diamage Patterns (B10) Moss Trim Lines (B16) | | | | | | |
| | | | | | | | |
| | res on Living Roots (C3) Dry-Season Water Table (C2) | | | | | | |
| Sediment Deposits (B2) Presence of Reduce | res on Living Roots (C3) Dry-Season Water Table (C2) d Iron (C4) X Crayfish Burrows (C8) | | | | | | |
| Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduce Recent Iron Reduct | res on Living Roots (C3) or Iron (C4) Or I | | | | | | |
| Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Presence of Reduce Recent Iron Reduct Thin Muck Surface | res on Living Roots (C3) or Iron (C4) on in Tilled Soils (C6) (C7) Dry-Season Water Table (C2) X Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) | | | | | | |
| Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Presence of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference Other (Explain in Reference Other Iron Reduct Iron Reduct Iron Reduct Iron Reference Other Iron Reduct Iron Re | res on Living Roots (C3) ad Iron (C4) on in Tilled Soils (C6) (C7) marks) Dry-Season Water Table (C2) X Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) X FAC-Neutral Test (D5) | | | | | | |
| Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Presence of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Re | res on Living Roots (C3) ad Iron (C4) on in Tilled Soils (C6) (C7) marks) Dry-Season Water Table (C2) X Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) | | | | | | |
| Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Presence of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reference Other (Explain in Reference Other Iron Reduct Iron Reduct Iron Reduct Iron Reference Other Iron Reduct Iron Re | res on Living Roots (C3) ad Iron (C4) on in Tilled Soils (C6) (C7) marks) Dry-Season Water Table (C2) X Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) X FAC-Neutral Test (D5) | | | | | | |
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| | | | | Dominance Test worksheet: |
|---|---------------------|-------------------|---------------------|--|
| Tree Stratum (Plot size:) 1. | Absolute % Cover | Dominant Species? | Indicator Status | Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A) |
| 2 | | | | Total Number of Dominant Species Across All Strata: 2 (B) |
| 5 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC:100 (A/B) |
| 8. | | = Total Cov | er | Prevalence Index worksheet: Total % Cover of: Multiply by: |
| 50 % of total cover: 0 | | | | OBL species x 1 = |
| | | | | FACW species X 2 = |
| Sapling/Shrub Stratum (Plot size:) | | | | FAC species X 3 = |
| 1 | | | | FACU species X 4 = |
| • | | | | UPL species X 5 = |
| 4 | | | | Column Totals: (A) (B) |
| <u> </u> | | | | |
| 6. | | | | Prevalence Index = B/A = |
| 7. | | | | Hydrophytic Vegetation Indicators: |
| 8. | | | | 1 – Rapid Test for Hydrophytic Vegetation |
| | | = Total Cov | | X 2 – Dominance Test is > 50% |
| 50 % of total cover: 0 | 20 % 0 | of total cover: | 0 | $\frac{\lambda}{2}$ = Dominance Test is $\frac{50\%}{6}$ 3 = Prevalence Test is $\frac{50\%}{6}$ |
| | | | | |
| Herb Stratum (Plot size: 30' Radius) | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| Iva annua (Sumpweed,annual) | 60 | <u>Y</u> Y | FAC | ¹ Indicators of hydric soil and wetland hydrology must |
| Polygonum hydropiper (Smartweed,marshpepper) Asternalization (Chair leaf actor) | 55 | | OBL | be present, unless disturbed or problematic. |
| Aster adnatus (Chain-leaf aster) Phyla lanceolata (Frog-fruit,lance-leaf) | | | FACW FACW | Definitions of Vegetation Strata: |
| Spilanthes americana (Spotflower, creeping) | 30 | | FACW | Tree – Woody plants, excluding woody vines, |
| Splianties affectana (Spotnower, creeping) Cyperus virens (Flatsedge, green) | 10 | | FACW | approximately 20 ft (6 m) or more in height and 3 in. |
| | | | TACV | (7.6 cm) or larger in diameter at breast height (DBH). |
| 7. 8. | | | | Sapling – Woody plants, excluding woody vines, |
| 9. | | | | approximately 20 ft (6 m) or more in height and less |
| 10. | | | | than 3 in. (7.6 cm) DBH. |
| 11. | | | | Shrub – Woody plants, excluding woody vines, |
| 12. | | | | approximately 3 to 20 ft (1 to 6 m) in height. |
| | 225 | = Total Cov | er | |
| 50 % of total cover: 112.5 Woody Vine Stratum (Plot size:) | _ 20 % 0 | of total cover: | 45 | Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3 ft (1 m) in height. |
| 1 | | | | Weeds vine All woods vines regardless of height |
| 2 | | | | Woody vine – All woody vines, regardless of height. |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| | 0 | | | Hydrophytic |
| 50 % of total cover:0 | _ 20 % (| of total cover: | 0 | Vegetation Present? Yes X No |
| | | | | |
| Remarks: (Include photo numbers here or on a separate | sheet.) | | | |
| , , | , | | | |
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| | | | th needed to docu | | | or confirm | the absence | of indicate | rs.) | | |
|------------------------|----------------------------|--------------|---------------------------------------|---|------------------|------------------|--------------------|---------------|------------|-------------------------------|--|
| Depth (inches) | Color (moist) | % | Color (moist) | edox Featur % | es Type¹ | Loc ² | Texture | | Rem | arks | |
| 0-3 | 10YR 3/2 | 98 | 7.5YR 4/6 | 2 | C | PL/M | Clay | - | TOIT | arko | |
| | | | | | | - | | | | | |
| 3-7 | 10YR 4/1 | 95 | 7.5YR 4/6 | 5 | C | PL/M | Clay | | | | |
| 7-18+ | 10YR 5/1 | 97 | 7.5YR 4/6 | 3 | C | M | Clay | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| ¹ Type: C=C | oncentration, D=De | epletion, RM | =Reduced Matrix, C | CS=Covered | or Coate | ed Sand Gra | ains. ² | Location: P | L=Pore Li | ning, M=Matrix. | |
| Hydric Soil | Indicators: | | | | | | Indic | ators for Pr | oblematio | : Hydric Soils ³ : | |
| Histosol | (A1) | | Polyvalue B | elow Surface | e (S8) (L | .RR S, T, U) | 1 cm | Muck (A9) | (LRR O) | • | |
| Histic Ep | ipedon (A2) | | Thin Dark S | uface (S9) (I | LRR S, 1 | Γ, U) | 2 cm | Muck (A10 | (LRR S) | | |
| Black His | | | Loamy Gley | | | | | | | side MLRA 150A,I | |
| | n Sulfide (A4) | | Loamy Gley | • | | , | | | | (F19) (LRR P, S, 1 | |
| | Layers (A5) | | X Depleted Ma | | , | | | nalous Brigl | | | |
| _ | Bodies (A6) (LRR I | P. T. U) | Redox Dark | | <i>i</i>) | | | ILRA 153B) | - | () | |
| | cky Mineral (A7) (L | | Depleted Da | • | , | | • | Parent Mate | | | |
| | esence (A8) (LRR I | | Redox Depr | | | | | Shallow Da | | | |
| | ck (A9) (LRR P, T) | | Marl (F10) (| | , | | | r (Explain ir | | | |
| _ | Below Dark Surface | | Depleted Oc | | MI RA 1 | 51) | | (Explain ii | rtomanto | , | |
| | rk Surface (A12) | 50 (7111) | Iron Mangar | | | | ١ . | | | | |
| | airie Redox (A16) (| ΜΙ ΒΔ 150Δ | | | | | inai | | | vegetation and | |
| | ucky Mineral (S1) | | | | | , 0, | | | | e present, unless | |
| | leyed Matrix (S4) | LIKIK O, 3) | · · · · · · · · · · · · · · · · · · · | Delta Ochric (F17) (MLRA 151) disturbed or problematic. Reduced Vertic (F18) (MLRA 150A, 150B) | | | | | | | |
| | edox (S5) | | | int Floodplain Soils (F19) (MLRA 149A) | | | | | | | |
| | Matrix (S6) | | Anomalous | | | | | 1E2D) | | | |
| | face (S7) (LRR P, | S, T, U) | Anomalous | Bright Loam | y Solis (i | (WILKA | 143A, 133C | , 1330) | | | |
| Restrictive | Layer (if observed | I): | | | | | | | | | |
| Type: | | | | | Нус | dric Soil Pro | esent? | Ye | s <u>X</u> | No | |
| Depth (in | nches): | | | | | | | | | | |
| Remarks: | | | | | | | | | | | |
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| Project/Site: Angel Ranch 751 Acres | City/County: Pointe Coupee Sampling Date: Oct 8, 2014 |
|---|--|
| Applicant/Owner: BRAC | State: Louisiana Sampling Point: 7 |
| Investigator(s): B. McCoy | |
| Landform (hillslope, terrace, etc.) Pasture Loc | |
| Subregion (LRR or MLRA): LRR O Lat: 30°44'3.1" | |
| Soil Map Unit Name: Commerce silt loam | NWI Classification: |
| Are climatic / hydrologic conditions on the site typical for this time of year? | |
| Are Vegetation , Soil , or Hydrology significantly disturbed | |
| Are Vegetation, Soil, or Hydrologynaturally problematic? | · · · · · · · · · · · · · · · · · · · |
| Are vegetation, Join, or rightnoingynaturally problematics | : (II Heeded, explain any answers in Kemarks.) |
| SUMMARY OF EINDINGS Attach site man showing sar | maling point locations, transcots, important features, etc. |
| SUMMART OF FINDINGS – Attach site map showing sar | mpling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes X No | |
| Hydric Soil Present? Yes X No | Is the Sampled Area within a Wetland? Yes NoX |
| Wetland Hydrology Present? Yes No _X | |
| Remarks: | <u> </u> |
| Tromains. | |
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| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B13 | Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) |
| Surface Water (A1) — Aquatic Fauna (B13 High Water Table (A2) — Marl Deposits (B15) | |
| Saturation (A3) Hydrogen Sulfide O | |
| Water Marks (B1) Oxidized Rhizosphe | eres on Living Roots (C3) Dry-Season Water Table (C2) |
| Sediment Deposits (B2) Presence of Reduce | |
| Drift Deposits (B3) Recent Iron Reducti Algal Mat or Crust (B4) Thin Muck Surface (| ion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) (C7) Geomorphic Position (D2) |
| Iron Deposits (B5) Algal Mat Of Crost (B4) Other (Explain in Re | |
| Inundation Visible on Aerial Imagery (B7) | X 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 Hydrology Present? Yes No _X_ |
| (includes capillary fringe) | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, pro | avious inspections) if available: |
| Describe Recorded Data (stream gauge, monitoring well, aerial priotos, pri | evious inspections), il available. |
| | |
| Remarks: | |
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| | | | | Dominance Test worksheet: | | |
|---|---------------|-----------------|-----------|--|------------------|------------|
| | Absolute | Dominant | Indicator | | | |
| Tree Stratum (Plot size:) | % Cover | Species? | Status | Number of Dominant Species | | |
| 1 | | | | That Are OBL, FACW, or FAC: | :2 | (A) |
| 2 | | | | | | |
| 3 | | | | Total Number of Dominant | 0 | (D) |
| 4 | | | | Species Across All Strata: | 3 | (B) |
| 5 | | | | Dereant of Deminent Cassins | | |
| 6 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: | : 66.7 | (A/B) |
| 7 | | | | . I mat / we obe, i / Nov, or i / No. | 00.7 | (100) |
| 8. | | | | Prevalence Index worksheet: | | |
| | 0 | = Total Cov | er er | Total % Cover of: | Multiply by: | |
| 50 % of total cover: 0 | 20 % 0 | of total cover: | 0 | OBL species | x 1 = | _ |
| | | | | FACW species | X 2 = | |
| Sapling/Shrub Stratum (Plot size:) | | | | FAC species | X 3 = | |
| 1 | | | | FACU species | X 4 = | |
| 2 | | | | | | |
| 3. | | | | UPL species | X 5 = | |
| 4 | | | | Column Totals: | (A) | (B) |
| 5 | | | | | | |
| 6 | | | - | Prevalence Index = | B/A = | |
| 7 | | | | Hydrophytic Vegetation Indicat | | |
| 8 | | | | 1 – Rapid Test for Hydrophyt | | |
| | 0 | = Total Cov | er | X 2 – Dominance Test is > 50% | _ | |
| 50 % of total cover: 0 | 20 % 0 | of total cover: | 0 | | | |
| | " | | | 3 – Prevalence Test is ≤ 3.0 ¹ | | |
| Herb Stratum (Plot size: 30' Radius) | | | | Problematic Hydrophytic Veg | jetation' (Expla | ain) |
| Cynodon dactylon (Grass,bermuda) | 50 | <u> </u> | FACU | 1 Indicators of budric soil and w | atland budgala | ~ |
| Polygonum hydropiper (Smartweed,marshpepper) | 50 | <u> </u> | OBL | Indicators of hydric soil and we be present, unless disturbed or | | gy must |
| 3. Iva annua (Sumpweed,annual) | 40 | Y | FAC | Definitions of Vegetation Strat | | |
| Phyla lanceolata (Frog-fruit,lance-leaf) | 25 | | FACW | | | |
| 5. Spilanthes americana (Spotflower, creeping) | 20 | | FACW | Tree - Woody plants, excluding | | |
| 6. Diodia virginiana (Button-weed,virginia) | 10 | | FACW | approximately 20 ft (6 m) or mor | | |
| 7. Trifolium repens (Clover,white) | 10 | | FACU | (7.6 cm) or larger in diameter at | breast neight (| (ВВН). |
| 8. Xanthium strumarium (Cockle-bur,rough) | 5 | · | FAC | Sapling - Woody plants, exclud | ling woody vine | es. |
| 9. Aster adnatus (Chain-leaf aster) | 3 | | FACW | approximately 20 ft (6 m) or mor | e in height and | d less |
| 10. | | · | | than 3 in. (7.6 cm) DBH. | | |
| 11 | | | | Shrub – Woody plants, excluding | na woody vines | |
| 12. | | | | approximately 3 to 20 ft (1 to 6 n | , | ,, |
| | 213 | = Total Cov | er | | , | |
| 50 % of total cover: 106.5 | 20 % 0 | of total cover: | 42.6 | Herb – All herbaceous (non-woo | | |
| | _ | | | herbaceous vines, regardless of plants, except woody vines, less | | |
| Woody Vine Stratum (Plot size:) | | | | 3 ft (1 m) in height. | тинан аррголи | |
| 1 | | | | | | |
| 2 | | | | Woody vine – All woody vines, | regardless of h | neight. |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| | 0 | = Total Cov | er er | | | |
| 50 % of total cover: 0 | | | | Hydrophytic | | |
| <u> </u> | | | | Vegetation | V Na | |
| | | | | Present? Yes | X No | |
| | | | | | | |
| Remarks: (Include photo numbers here or on a separate | sheet.) | | | | | |
| riomamor (merado prioto mamboro noto or on a coparato | 0001, | | | | | |
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| Project/Site: Angel Ranch 751 Acres | City/County: Pointe Coupee Sampling Date: Oct 9, 2014 |
|---|--|
| | State: Louisiana Sampling Point: 8 |
| Investigator(s): B. McCoy | |
| Landform (hillslope, terrace, etc.) Fallow Field Depression Loc | |
| Subregion (LRR or MLRA): LRR O Lat: 30°43'19.2 | |
| | NWI Classification: |
| Are climatic / hydrologic conditions on the site typical for this time of year? | · |
| Are Vegetation, Soil, or Hydrology significantly disturbed | |
| Are Vegetation, Soil, or Hydrology naturally problematic | |
| | (|
| SUMMARY OF FINDINGS – Attach site man showing sar | mpling point locations, transects, important features, etc. |
| | |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Area |
| Hydric Soil Present? Yes X No | within a Wetland? Yes X No |
| Wetland Hydrology Present? Yes X No | |
| Remarks: | |
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| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B13 | Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) |
| High Water Table (A2) Marl Deposits (B15) | (LRR U) Drainage Patterns (B10) |
| Saturation (A3) Hydrogen Sulfide O Water Marks (B1) X Oxidized Rhizosphe | dor (C1) Moss Trim Lines (B16) eres on Living Roots (C3) Dry-Season Water Table (C2) |
| Sediment Deposits (B2) Valer Marks (B1) Sediment Deposits (B2) Presence of Reduce | |
| Drift Deposits (B3) Recent Iron Reduct | ion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) |
| Algal Mat or Crust (B4) — Thin Muck Surface Other (Explain in Re | |
| Inundation Visible on Aerial Imagery (B7) | X 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 Hydrology Present? Yes X No |
| (includes capillary fringe) | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr | L evious inspections), if available: |
| 33., | , , , , , , , , , , , , , , , , , , , |
| | |
| | |
| Remarks: | |

| | ription: (Describe | to the depti | | | | or confirm | the absence | of indicate | ors.) | | | |
|------------------------|---|--------------|---|--|-------------------------|-------------------|---|----------------------------------|------------|--------------------------------|--|--|
| Depth (inches) | Matrix Color (moist) | % | Color (moist) | edox Feature % | es Type ¹ | Loc ² | Texture | | Rem | narks | | |
| 0-2 | 10YR 4/2 | 99 | 10YR 4/6 | 1 | C | M | Clay | - | 11011 | larko | | |
| 2-18+ | 2.5Y 4/1 | 96 | 10YR 4/6 | 2 | | M | Clay | | | _ | | |
| 2-10+ | 2.51 4/1 | 90 | | | | | | - | | | | |
| | | | 10YR 4/4 | 2 | C | M | Clay | | | _ | | |
| | | | | · —— | | | | | | | | |
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| | | | | | | | | | | | | |
| ¹ Type: C=C | oncentration, D=De | pletion, RM= | Reduced Matrix, C | S=Covered | or Coate | d Sand Gra | ains. ² | Location: P | L=Pore L | ining, M=Matrix. | | |
| Hydric Soil | Indicators: | | | | | | Indica | ators for Pr | oblemati | c Hydric Soils³: | | |
| Histosol | (A1) | | Polyvalue B | elow Surface | e (S8) (Li | RR S, T, U) | 1 cm | Muck (A9) | (LRR O) | | | |
| Histic Ep | ipedon (A2) | | Thin Dark S | uface (S9) (I | LRR S, T | , U) | 2 cm | Muck (A10 | (LRR S) | | | |
| Black His | stic (A3) | | Loamy Gley | Loamy Gleyed Matrix (F1) (LRR O)Reduced Vertic (F18) (outs | | | | | | | | |
| Hydroger | n Sulfide (A4) | | Loamy Gley | ed Matrix (F | 2) | | Pied | mont Flood | lain Soils | lain Soils (F19) (LRR P, S, T) | | |
| Stratified | Layers (A5) | | X Depleted Ma | atrix (F3) | | | Anon | nalous Brigl | nt Loamy | Soils (F20) | | |
| Organic I | Bodies (A6) (LRR P | , T, U) | Redox Dark | Surface (F6 | 5) | | (M | (MLRA 153B) | | | | |
| 5 cm Mud | cky Mineral (A7) (Li | RR P, T, U) | Depleted Da | rk Surface (| F7) | | Red | Parent Mate | rial (TF2) | | | |
| Muck Pre | esence (A8) (LRR L | J) | Redox Depr | essions (F8) |) | | Very | Very Shallow Dark Surface (TF12) | | | | |
| 1 cm Mud | ck (A9) (LRR P, T) | | Marl (F10) (| LRR U) | | | Othe | r (Explain ir | Remarks | s) | | |
| Depleted | Below Dark Surfac | e (A11) | Depleted Oc | chric (F11) (F | MLRA 15 | 1) | | | | | | |
| Thick Da | rk Surface (A12) | | Iron Mangar | nese Masses | s (F12) (L | .RR O, P, T |) 3 _{Indi} | cators of Hv | drophytic | vegetation and | | |
| Coast Pra | airie Redox (A16) (I | MLRA 150A) | | | | U) | Indicators of Hydrophytic vegetation and wetland hydrology must be present, unless | | | | | |
| Sandy M | ucky Mineral (S1) (I | LRR O, S) | Delta Ochric | (F17) (MLR | RA 151) | | distu | rbed or prob | lematic. | | | |
| Sandy G | eyed Matrix (S4) | | Reduced Vertic (F18) (MLRA 150A, 150B) | | | | | | | | | |
| Sandy Re | edox (S5) | | Piedmont Floodplain Soils (F19) (MLRA 149A) | | | | | | | | | |
| | Matrix (S6) face (S7) (LRR P, S | S, T, U) | Anomalous | Bright Loam | y Soils (F | (20) (MLRA | . 149A, 153C | ;, 153D) | | | | |
| Restrictive I | Layer (if observed |) : | | | | | | | | | | |
| Type: | | | | | Hyd | ric Soil Pre | esent? | Ye | s X | No | | |
| Depth (in | ches): | | <u></u> | | | | | | | | | |
| Remarks: | | | | | l l | | | | | | | |
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| Project/Site: Angel Ranch 751 Acres | City/County: Pointe Coupee Sampling Date: Oct 15, 2014 |
|--|--|
| Applicant/Owner: BRAC | State: Louisiana Sampling Point: 9 |
| Investigator(s): B. McCoy | |
| | cal relief (concave, convex, none): none Slope (%): 0 |
| Subregion (LRR or MLRA): LRR O Lat: 30°43'24. | · · · · · · · · · · · · · · · · · · · |
| Soil Map Unit Name: Commerce silty clay loam | |
| Are climatic / hydrologic conditions on the site typical for this time of year? | |
| Are Vegetation, Soil, or Hydrologysignificantly disturbed | |
| Are Vegetation, Soil, or Hydrologynaturally problematic | |
| | (|
| SUMMARY OF FINDINGS – Attach site man showing sa | mpling point locations, transects, important features, etc. |
| , that is a second of the seco | |
| Hydrophytic Vegetation Present? Yes No _X_ | Is the Sampled Area |
| Hydric Soil Present? Yes X No | within a Wetland? Yes NoX |
| Wetland Hydrology Present? Yes No _X | |
| Remarks: | |
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| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B13) | Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) |
| High Water Table (A2) Marl Deposits (B15 | |
| Saturation (A3) Hydrogen Sulfide C | |
| Water Marks (B1) Oxidized Rhizosphe Sediment Deposits (B2) Presence of Reduc | eres on Living Roots (C3) Dry-Season Water Table (C2) ed Iron (C4) Crayfish Burrows (C8) |
| | tion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) |
| Algal Mat or Crust (B4) Thin Muck Surface Other (Forthering B | |
| Iron Deposits (B5) Other (Explain in Roundation Visible on Aerial Imagery (B7) | emarks) Shallow Aquitard (D3) 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 Hydrology Present? Yes No _X_ |
| (includes capillary fringe) | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr | revious inspections) if available: |
| Describe Resorded Bata (Stream gauge, monitoring wen, dental priotes, pr | eviduo inspections), ii available. |
| | |
| Remarks: | |
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| | | | | Dominance Test worksheet: |
|---|-------------|-----------------|------------|---|
| Tana Chrotium (Diet einer | Absolute | Dominant | Indicator | |
| Tree Stratum (Plot size:) | % Cover | Species? | Status | Number of Dominant Species |
| 1 | | | | That Are OBL, FACW, or FAC:1 (A) |
| 2 | | | | |
| 3 | | | | Total Number of Dominant |
| 4 | | | | Species Across All Strata: 2 (B) |
| 5 | | | | Barrant of Barris and On aris |
| 6 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B) |
| 7. | | | | That Are OBL, FACW, or FAC: 50 (A/B) |
| 8. | | | | Prevalence Index worksheet: |
| · . | | = Total Cov | or | Total % Cover of: Multiply by: |
| 50 % of total cover: 0 | - | of total cover: | | OBL species 0 x 1 = 0 |
| 30 % of total cover. | 20 /6 (| Ji lolai covei. | | - |
| Conline/Chrush Ctrotum (Diet circs) | | | | FACW species50 X 2 =100 |
| Sapling/Shrub Stratum (Plot size:) | | | | FAC species <u>125</u> X 3 = <u>375</u> |
| 1 | | | | FACU species 85 X 4 = 340 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | Column Totals: <u>260</u> (A) <u>815</u> (B) |
| 5. | | | | |
| 6. | | | | Provolence Index – P/A – 2.12 |
| 7. | | | - | Prevalence Index = B/A = 3.13 |
| 8. | _ | | | Hydrophytic Vegetation Indicators: |
| 0 | | = Total Cov | | 1 – Rapid Test for Hydrophytic Vegetation |
| 50.0/ / / / / | 0 | | | 2 – Dominance Test is > 50% |
| 50 % of total cover: 0 | 20 % (| of total cover: | 0 | 3 – Prevalence Test is ≤ 3.0 ¹ |
| | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| Herb Stratum (Plot size: 30' Radius) | | | | 1 Toblematic Hydrophytic Vegetation (Explain) |
| Setaria pumila (yellow foxtail) | 70 | Y | <u>FAC</u> | Indicators of hydric soil and wetland hydrology must |
| Cynodon dactylon (Grass,bermuda) | 60 | Y | FACU | be present, unless disturbed or problematic. |
| Ambrosia trifida (Ragweed,great) | 30 | | FAC | Definitions of Vegetation Strata: |
| 4. Carex tribuloides (Sedge,blunt broom) | 20 | | FACW | Definitions of Vegetation offata. |
| 5. Diodia virginiana (Button-weed,virginia) | 20 | | FACW | Tree – Woody plants, excluding woody vines, |
| 6. Solidago canadensis (Golden-rod,canada) | 15 | | FACU | approximately 20 ft (6 m) or more in height and 3 in. |
| 7. Aster adnatus (Chain-leaf aster) | 10 | | FACW | (7.6 cm) or larger in diameter at breast height (DBH). |
| | | . ——— | | - |
| 8. Cirsium horridulum (Thistle,yellow) | 10 | | FAC | Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less |
| 9. Solanum carolinense (Nightshade,carolina) | 10 | | FACU | than 3 in. (7.6 cm) DBH. |
| 10. Verbena brasiliensis (Vervain,brazilian) | 10 | | FAC | - |
| 11. Iva annua (Sumpweed,annual) | 5 | <u> </u> | FAC | Shrub – Woody plants, excluding woody vines, |
| 12 | | | | approximately 3 to 20 ft (1 to 6 m) in height. |
| | 260 | = Total Cov | er | |
| 50 % of total cover: 13 | 0 20% | of total cover: | 52 | Herb - All herbaceous (non-woody) plants, including |
| | | | | herbaceous vines, regardless of size. Includes woody |
| Woody Vine Stratum (Plot size:) | | | | plants, except woody vines, less than approximately 3 ft (1 m) in height. |
| 1 | | | | 3 it (1 iii) iii neigiit. |
| _ | | | | Woody vine – All woody vines, regardless of height. |
| | | | | - |
| 3. | | | | - |
| 4 | | | | - |
| 5 | | | | |
| | 0 | = Total Cov | er | |
| 50 % of total cover: 0 | | • | | Hydrophytic |
| 30 % of total cover. | 20 /8 (| Ji total cover. | | Vegetation |
| | | | | Present? Yes No _X_ |
| | | | | |
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| Remarks: (Include photo numbers here or on a separa | ate sheet.) | | | |
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| | | | n needed to docur | ment the ir | ndicator c | r confirm | the absence of | findicators | .) | | | |
|-------------------------|---------------------------|---------------|--|---|-------------------------------|------------------|-------------------------|---------------------|------------|-----------------------------|--|--|
| Depth (inches) | Color (moist) | % | Color (moist) | edox Featur | res Type ¹ | Loc ² | Texture | | Rema | arks | | |
| 0-3 | 10YR 3/2 | 100 | Color (moist) | | N/A | N/A | Clay Loam | | TTOTTIC | and . | | |
| 3-7 | 10YR 4/2 | 98 | 10YR 5/8 | 1 | C | | | | | | | |
| 3-1 | 101K 4/2 | 90 | | | | M | Clay | | | | | |
| | 40)/D 4/4 | | 10YR 3/6 | | | M | Clay | | | | | |
| 7-18+ | 10YR 4/1 | 97 | 10YR 5/8 | 2 | <u> </u> | M | Clay | | | | | |
| | | | 10YR 4/6 | 1 | C | M | Clay | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| ¹ Type: C=Co | oncentration, D=De | epletion, RM= | Reduced Matrix, C | S=Covered | d or Coate | d Sand G | rains. ² Lo | cation: PL= | Pore Lin | ing, M=Matrix. | | |
| Hydric Soil I | ndicators: | | | | | | Indicato | rs for Prob | lematic | Hydric Soils ³ : | | |
| Histosol (| A1) | | Polyvalue Be | elow Surfac | e (S8) (LF | RR S, T, L | J)1 cm M | uck (A9) (Lf | RR O) | | | |
| Histic Epi | pedon (A2) | | Thin Dark Su | ıface (S9) (| (LRR S, T | , U) | 2 cm M | uck (A10) (L | RR S) | | | |
| Black His | tic (A3) | | Loamy Gleye | Loamy Gleyed Matrix (F1) (LRR O) Reduced Vertic (F18) (outside MLRA 150 | | | | | | | | |
| Hydroger | Sulfide (A4) | | Loamy Gleye | ed Matrix (F | ⁻ 2) | | Piedmo | nt Floodplai | in Soils (| F19) (LRR P, S, T) | | |
| Stratified | Layers (A5) | | X Depleted Ma | X_Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) | | | | | | | | |
| Organic E | Bodies (A6) (LRR F | P, T, U) | Redox Dark | Surface (F6 | 6) | | (MLF | RA 153B) | | | | |
| 5 cm Mud | ky Mineral (A7) (L | RR P, T, U) | Depleted Da | rk Surface | (F7) | | Red Pa | rent Materia | al (TF2) | | | |
| Muck Pre | sence (A8) (LRR l | J) | Redox Depre | essions (F8 | 3) | | Very Sh | nallow Dark | Surface | (TF12) | | |
| 1 cm Mud | k (A9) (LRR P, T) | | Marl (F10) (L | .RR U) | | | Other (I | Explain in R | emarks) | | | |
| Depleted | Below Dark Surface | ce (A11) | Depleted Oc | hric (F11) (| MLRA 15 | 1) | | | | | | |
| Thick Dar | k Surface (A12) | | Iron Mangan | ese Masse | s (F12) (L | RR O, P, | T) 3 _{Indicat} | ore of Hydro | onbytic v | egetation and | | |
| Coast Pra | airie Redox (A16) (| MLRA 150A) | Umbric Surfa | ace (F13) (I | LRR P, T, | U) | | | | present, unless | | |
| Sandy Mu | ucky Mineral (S1) (| LRR O, S) | Delta Ochric | Delta Ochric (F17) (MLRA 151) disturbed or problematic. | | | | | | | | |
| Sandy Gl | eyed Matrix (S4) | | Reduced Vertic (F18) (MLRA 150A, 150B) | | | | | | | | | |
| Sandy Re | edox (S5) | | Piedmont Flo | Piedmont Floodplain Soils (F19) (MLRA 149A) | | | | | | | | |
| | Matrix (S6) | | Anomalous E | Bright Loam | ny Soils (F | 20) (MLR | A 149A, 153C, 1 | 53D) | | | | |
| Dark Surf | ace (S7) (LRR P,) | S, T, U) | | | | | | | | | | |
| | ayer (if observed | l): | | | | | | | | | | |
| Type: Depth (in | ches): | | | | Hydric Soil Present? Yes X No | | | | | No | | |
| | | | <u> </u> | | | | | | | | | |
| Remarks: | | | | | | | | | | | | |
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| Project/Site: Angel Ranch 751 Acres | City/County: Pointe Coupee Sampling Date: Oct 15, 2014 |
|---|---|
| Applicant/Owner: BRAC | State: Louisiana Sampling Point: 10 |
| Investigator(s): B. McCoy | |
| Landform (hillslope, terrace, etc.) Fallow Field Lo | |
| Subregion (LRR or MLRA): LRR O Lat: 30°43'24. | |
| | NWI Classification: |
| Are climatic / hydrologic conditions on the site typical for this time of year? | |
| Are Vegetation, Soil, or Hydrology significantly disturbed | |
| Are Vegetation, Soil, or Hydrology naturally problematic | |
| ,,,,, | (|
| SUMMARY OF FINDINGS – Attach site man showing sa | mpling point locations, transects, important features, etc. |
| | |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Area |
| Hydric Soil Present? Yes X No | within a Wetland? Yes NoX |
| Wetland Hydrology Present? Yes No _X_ | |
| Remarks: | |
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| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B1: | Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) |
| High Water Table (A2) Marl Deposits (B15 | Drainage Patterns (B10) |
| Saturation (A3) Hydrogen Sulfide C Water Marks (B1) Oxidized Rhizosphi | Odor (C1) Moss Trim Lines (B16) eres on Living Roots (C3) Dry-Season Water Table (C2) |
| Sediment Deposits (B2) Presence of Reduc | red Iron (C4) Crayfish Burrows (C8) |
| | tion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) |
| Algal Mat or Crust (B4) — Thin Muck Surface Iron Deposits (B5) — Other (Explain in R | |
| Inundation Visible on Aerial Imagery (B7) | X 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): | Wetland Hydrology Present? Yes No X |
| Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) | |
| (includes capillary filinge) | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, p | revious inspections), if available: |
| | |
| Remarks: | |
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| | | | | Dominance Test worksheet: |
|---|---------|--------------|-----------|--|
| | | Dominant | Indicator | |
| Tree Stratum (Plot size:) | % Cover | Species? | Status | Number of Dominant Species |
| 1 | | | | That Are OBL, FACW, or FAC: (A) |
| 2 | | | | |
| 3 | | | | Total Number of Dominant |
| 4 | | | | Species Across All Strata: 2 (B) |
| 5 | | | | Percent of Dominant Species |
| 6 | | | | That Are OBL, FACW, or FAC: 100 (A/B) |
| 7 | | | | |
| 8 | | | | Prevalence Index worksheet: |
| | 0 = | = Total Cov | er | Total % Cover of: Multiply by: |
| 50 % of total cover: 0 | 20 % of | total cover: | 0 | OBL species x 1 = |
| | | | | FACW species X 2 = |
| Sapling/Shrub Stratum (Plot size:) | | | | FAC species X 3 = |
| 1 | | | | FACU species X 4 = |
| 2 | | | | |
| 3 | | | | · — — — |
| 4 | | | | Column Totals: (A) (B) |
| 5 | | | | |
| 6 | | | | Prevalence Index = B/A = |
| 7 | | | | Hydrophytic Vegetation Indicators: |
| 8 | | | | 1 – Rapid Test for Hydrophytic Vegetation |
| | 0 = | = Total Cov | er | X 2 – Dominance Test is > 50% |
| 50 % of total cover: 0 | 20 % of | total cover: | 0 | $3 - \text{Prevalence Test is } \le 3.0^{1}$ |
| | | | | |
| Herb Stratum (Plot size: 30' Radius) | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| Aster adnatus (Chain-leaf aster) | 80 | Υ | FACW | ¹ Indicators of hydric soil and wetland hydrology must |
| Diodia virginiana (Button-weed,virginia) | 40 | Υ | FACW | be present, unless disturbed or problematic. |
| Ambrosia trifida (Ragweed,great) | 20 | | FAC | Definitions of Vegetation Strata: |
| 4. Setaria pumila (yellow foxtail) | 15 | | FAC | _ |
| 5. Solidago canadensis (Golden-rod,canada) | 3 | | FACU | Tree – Woody plants, excluding woody vines, |
| 6 | | | | approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). |
| 7 | | | | (7.5 only of larger in diameter at breast neight (BBH). |
| 8 | | | | Sapling – Woody plants, excluding woody vines, |
| 9. | | | | approximately 20 ft (6 m) or more in height and less |
| 10 | | | | than 3 in. (7.6 cm) DBH. |
| 11 | | | | Shrub – Woody plants, excluding woody vines, |
| 12 | | | | approximately 3 to 20 ft (1 to 6 m) in height. |
| | | = Total Cov | | Harb All barbaccass (non woods) plants including |
| 50 % of total cover: 79 | 20 % of | total cover: | 31.6 | Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody |
| | | | | plants, except woody vines, less than approximately |
| Woody Vine Stratum (Plot size:) | | | | 3 ft (1 m) in height. |
| 1 | | | | Woody vine All woody vines regardless of height |
| 2 | | | | Woody vine – All woody vines, regardless of height. |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| | 0 = | = Total Cov | er | |
| 50 % of total cover: 0 | 20 % of | total cover: | 0 | Hydrophytic |
| | | | | Vegetation Present? Yes X No |
| | | | | 11030HL. 103 <u>X</u> NO |
| | | | | |
| Remarks: (Include photo numbers here or on a separate | sheet.) | | | |
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| | | | h needed to docu | ment the ii | ndicator o | r confirm | the absence | of indicators | s.) | |
|-------------------------|---|---------------|---|---|--------------------------|-----------------|------------------------|---------------------|-----------|-----------------------------|
| Depth (inches) | Color (moist) | % | Color (moist) | edox Featu % | res Type ¹ | Loc² | Texture | | Rema | arke |
| | | | Color (moist) | | | | | | IXCIIIC | iiko |
| 0-2 | 10YR 3/2 | 100 | 40\/D 4/0 | | N/A | N/A | Clay Loam | | | |
| 2-6 | 10YR 4/2 | 99 | 10YR 4/6 | | C | M | Clay | | | |
| 6-18+ | 10YR 4/1 | 98 | 10YR 5/8 | | <u>C</u> | M | Clay | | | |
| | | | 10YR 4/6 | 1 | C | M | Clay | | | |
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| ¹ Type: C=Co | oncentration, D=De | epletion, RM= | Reduced Matrix, C | S=Covered | d or Coate | d Sand G | rains. ² L | ocation: PL= | Pore Lin | ing, M=Matrix. |
| Hydric Soil I | ndicators: | | | | | | Indica | tors for Prob | lematic | Hydric Soils ³ : |
| Histosol (| A1) | | Polyvalue Be | elow Surfac | e (S8) (LF | RR S, T, L | J)1 cm | Muck (A9) (L | RR O) | |
| Histic Epi | pedon (A2) | | Thin Dark Su | ıface (S9) (| (LRR S, T | , U) | 2 cm l | Muck (A10) (I | LRR S) | |
| Black His | tic (A3) | | Loamy Gleye | Loamy Gleyed Matrix (F1) (LRR O)Reduced Vertic (F18) (outside MLR | | | | | | |
| Hydroger | Sulfide (A4) | | Loamy Gleye | Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (LRR | | | | | | |
| Stratified | Layers (A5) | | X Depleted Ma | X Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) | | | | | | |
| Organic E | Bodies (A6) (LRR F | P, T, U) | Redox Dark | Surface (F | 6) | | (ML | _RA 153B) | | |
| 5 cm Mud | cky Mineral (A7) (L | RR P, T, U) | Depleted Da | rk Surface | (F7) | | Red F | Parent Materia | al (TF2) | |
| Muck Pre | sence (A8) (LRR L | J) | Redox Depre | essions (F8 | 3) | | Very S | Shallow Dark | Surface | (TF12) |
| 1 cm Mud | k (A9) (LRR P, T) | | Marl (F10) (L | .RR U) | | | Other | (Explain in R | emarks) | |
| Depleted | Below Dark Surface | ce (A11) | Depleted Oc | hric (F11) (| MLRA 15 | 1) | | | | |
| Thick Da | k Surface (A12) | | Iron Mangan | ese Masse | s (F12) (L | RR O, P, | T) ³ Indic: | ators of Hydro | onhytic y | egetation and |
| Coast Pra | airie Redox (A16) (| MLRA 150A | | | | U) | | | | present, unless |
| Sandy Mi | ucky Mineral (S1) (| LRR O, S) | Delta Ochric (F17) (MLRA 151) disturbed or problematic. | | | | | | | |
| Sandy GI | eyed Matrix (S4) | | Reduced Vertic (F18) (MLRA 150A, 150B) | | | | | | | |
| Sandy Re | edox (S5) | | Piedmont Floodplain Soils (F19) (MLRA 149A) | | | | | | | |
| | Matrix (S6) face (S7) (LRR P, S | S, T, U) | Anomalous E | Bright Loan | ny Soils (F | 20) (MLR | A 149A, 153C, | 153D) | | |
| Restrictive I | _ayer (if observed | () : | | | | | | | | |
| Type: | | | | Hydric Soil Present? | | | | | | No |
| Depth (in | ches): | | | | | | | | | |
| Remarks: | | | | | | | | | | |
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| Project/Site: Angel Ranch 751 Acres | City/County: Pointe Coupee Sampling Date: Oct 15, 2014 |
|---|--|
| Applicant/Owner: BRAC | State: Louisiana Sampling Point: 11 |
| Investigator(s): B. McCoy | |
| Landform (hillslope, terrace, etc.) Drainage Swale Loc | |
| Subregion (LRR or MLRA): LRR O Lat: 30°43'23.2 | |
| | NWI Classification: |
| Are climatic / hydrologic conditions on the site typical for this time of year? | · |
| Are Vegetation, Soil, or Hydrology significantly disturbed | |
| Are Vegetation, Soil, or Hydrology naturally problematic | |
| <u> </u> | (, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, |
| SUMMARY OF FINDINGS – Attach site man showing sar | mpling point locations, transects, important features, etc. |
| | |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Area |
| Hydric Soil Present? Yes X No | within a Wetland? Yes X No |
| Wetland Hydrology Present? Yes X No | |
| Remarks: | |
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| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B13 | Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) |
| High Water Table (A2) Marl Deposits (B15) | (LRR U) X Drainage Patterns (B10) |
| Saturation (A3) Water Marks (B1) Hydrogen Sulfide O X Oxidized Rhizosphe | dor (C1) Moss Trim Lines (B16) eres on Living Roots (C3) Dry-Season Water Table (C2) |
| Sediment Deposits (B2) Presence of Reduce | ed Iron (C4) X Crayfish Burrows (C8) |
| | ion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) |
| Algal Mat or Crust (B4) Iron Deposits (B5) Thin Muck Surface Other (Explain in Re | |
| Inundation Visible on Aerial Imagery (B7) | X FAC-Neutral Test (D5) |
| X 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): | Wetland Hydrology Present? Yes X No |
| Saturation Present? Yes No X Depth (inches): | |
| (includes capillary fringe) | |
| | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr | evious inspections), if available: |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr | evious inspections), if available: |
| | evious inspections), if available: |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr | evious inspections), if available: |
| | evious inspections), if available: |

| | | | | Dominance Test worksheet: | | |
|---|--------------|--------------------------------|-----------|--|--|--|
| | Absolute | Dominant | Indicator | | | |
| ` <u>—</u> | % Cover | Species? | Status | Number of Dominant Species | | |
| 1 | | | | That Are OBL, FACW, or FAC:3 (A) | | |
| 2. | | | | Total Number of Dominant | | |
| 3 | | | | Species Across All Strata: 3 (B) | | |
| 4. | | | | (5) | | |
| 5. | | | | Percent of Dominant Species | | |
| 6 | | | | That Are OBL, FACW, or FAC:100 (A/B) | | |
| | | | | Prevalence Index worksheet: | | |
| 8 | | = Total Cov | | Total % Cover of: Multiply by: | | |
| FO % of total cover: | | = Total Cov of total cover: | | | | |
| 50 % of total cover: 0 | _ 20 % 0 | i lolai covei. | | · I | | |
| Sapling/Shrub Stratum (Plot size:) | | | | FACW species X 2 = | | |
| | | | | FAC species X 3 = | | |
| | | | | FACU species X 4 = | | |
| | | | | UPL species X 5 = | | |
| | | | | Column Totals: (A) (B) | | |
| | | | | | | |
| | | | | | | |
| 7. | | | | Prevalence Index = B/A = | | |
| 8. | | | | Hydrophytic Vegetation Indicators: | | |
| | 0 | = Total Cov | er | 1 - Rapid Test for Hydrophytic Vegetation | | |
| 50 % of total cover: 0 | | of total cover: | | X 2 – Dominance Test is > 50% | | |
| | | | | 3 – Prevalence Test is ≤ 3.0 ¹ | | |
| Herb Stratum (Plot size: 30' Radius) | | | | Problematic Hydrophytic Vegetation ¹ (Explain) | | |
| Cyperus virens (Flatsedge,green) | 50 | Υ | FACW | 1 | | |
| Spilanthes americana (Spotflower, creeping) | 45 | Y | FACW | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or probl matic. | | |
| Lythrum alatum (Loosestrife, winged) | 25 | Υ | FACW | Definitions of Vegetation Strata: | | |
| 4. Juncus effusus (Rush,soft) | 20 | | FACW | Definitions of Vegetation Strata. | | |
| 5. Polygonum hydropiper (Smartweed,marshpepper) | 20 | | OBL | Tree – Woody plants, excluding woody vines, | | |
| 6. Iva annua (Sumpweed,annual) | 15 | | FAC | approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). | | |
| 7. Paspalum urvillei (Grass,vasey) | 15 | | FAC | (7.6 cm) or larger in diameter at breast height (DBH). | | |
| 8. Phyla lanceolata (Frog-fruit,lance-leaf) | 15 | | FACW | Sapling – Woody plants, excluding woody vines, | | |
| 9. Solidago canadensis (Golden-rod,canada) | 10 | | FACU | approximately 20 ft (6 m) or more in height and less | | |
| 10. | | | | than 3 in. (7.6 cm) DBH. | | |
| 11. | | | | Shrub – Woody plants, excluding woody vines, | | |
| 12. | | | | approximately 3 to 20 ft (1 to 6 m) in height. | | |
| | 215 | = Total Cov | er | | | |
| 50 % of total cover:107.5 | 20 % o | of total cover: | 43 | Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody | | |
| | _ | | | plants, except woody vines, less than approximately | | |
| Woody Vine Stratum (Plot size:) | | | | 3 ft (1 m) in height. | | |
| 1 | | | | | | |
| 2 | | | | Woody vine – All woody vines, regardless of height. | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| | 0 | = Total Cov | er | | | |
| 50 % of total cover: 0 | 20 % 0 | of total cover: | 0 | Hydrophytic | | |
| | | | | Vegetation | | |
| | | | | Present? | | |
| | | | | | | |
| Remarks: (Include photo numbers here or on a separate s | sheet.) | | | 1 | | |
| The marrier (menade priorie marrier en en el esparate e | | | | | | |
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| Profile Desc Depth | ription: (Describe Matrix | to the depth | | nent the indox Featu | | r confirm | the absence of | f indicators.) | | | |
|-----------------------|---|---------------|---|--|-------------------|------------------|------------------------|------------------------|----------------|--|--|
| (inches) | Color (moist) | % | Color (moist) | <u>%</u> | Type ¹ | Loc ² | Texture | Rema | rks | | |
| 0-3 | 10YR 4/2 | 98 | 10YR 4/6 | 1 | C | M | Clay | | | | |
| | | | 10YR 5/8 | 1 | C | M | Clay | | | | |
| 3-8 | 10YR 4/1 | 97 | 10YR 5/8 | 1 | C | M | Clay | | | | |
| | | | 10YR 4/6 | 2 | C | M | Clay | | | | |
| 8-18+ | 10YR 4/1 | 95 | 10YR 4/6 | 2 | С | M | Clay | | | | |
| | | | 10YR 3/6 | 3 | C | M | Clay | | | | |
| ¹Type: C=Co | oncentration, D=Dep | oletion, RM=F | Reduced Matrix, C | S=Covered | d or Coate | d Sand Gr | rains. ² Lo | cation: PL=Pore Lin | ing, M=Matrix. | | |
| Hydric Soil I | ndicators: | | | | | | Indicato | ors for Problematic | Hydric Soils³: | | |
| Histosol (| A1) | | Polyvalue Be | Polyvalue Below Surface (S8) (LRR S, T, U)1 cm Muck (A9) (LRR O) | | | | | | | |
| Histic Epi | pedon (A2) | | Thin Dark Suface (S9) (LRR S, T, U)2 cm Muck (A10) (LRR S) | | | | | | | | |
| Black Hist | ` ' | | Loamy Gleye | | |) | | ed Vertic (F18) (outs | - | | |
| | Sulfide (A4) | | Loamy Gleye | | - 2) | | | ont Floodplain Soils (| | | |
| | Layers (A5) | | X Depleted Ma | | | | | lous Bright Loamy S | oils (F20) | | |
| | Bodies (A6) (LRR P, | | Redox Dark | ` | , | | | RA 153B) | | | |
| | ky Mineral (A7) (LR | | Depleted Dai | | | | | rent Material (TF2) | | | |
| | sence (A8) (LRR U) |) | Redox Depressions (F8)Very Shallow Dark Surface (TF | | | | | | (TF12) | | |
| | k (A9) (LRR P, T) | (8.4.4) | | Marl (F10) (LRR U)Other (Explain in Remarks) | | | | | | | |
| · | Below Dark Surface | e (A11) | | Depleted Ochric (F11) (MLRA 151) | | | | | | | |
| | k Surface (A12) | II DA 450A) | Iron Manganese Masses (F12) (LRR O, P, T) Impris Surface (F13) (LRR D, T II) Impris Surface (F13) (LRR D, T II) | | | | | | | | |
| | nirie Redox (A16) (N | | — Wolland Hydrology Made 50 procont, unloco | | | | | | | | |
| | ıcky Mineral (S1) (L eyed Matrix (S4) | .KK (), (3) | Delta Ochric (F17) (MLRA 151) disturbed or problematic. Reduced Vertic (F18) (MLRA 150A, 150B) | | | | | | | | |
| Sandy Re | | | Piedmont Floodplain Soils (F19) (MLRA 149A) | | | | | | | | |
| | Matrix (S6) | | Anomalous Bright Loamy Soils (F20) (MLRA 149A) | | | | | | | | |
| | ace (S7) (LRR P, S | , T, U) | Anomalous L | nigini Loan | ly Solis (i | 20) (MEK) | - 149A, 133C, 1 | 1330) | | | |
| Restrictive L | ayer (if observed) | : | | | | | | | | | |
| Type: | | | | Hydric Soil Present? Yes X No | | | | | | | |
| Depth (inc | ches): | | <u></u> | | | | | | | | |
| Remarks: | | | | | | | | | | | |
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| Project/Site: Angel Ranch 751 Acres | City/County: Pointe Coupee Sampling Date: Oct 15, 2014 | | | | | | |
|--|--|--|--|--|--|--|--|
| Applicant/Owner: BRAC | State: Louisiana Sampling Point: 12 | | | | | | |
| Investigator(s): B. McCoy | Section, Township, Range: Sec 22, 23, & 24; T-4-S; R-10-E | | | | | | |
| Landform (hillslope, terrace, etc.) Forested Batture Loc | | | | | | | |
| Subregion (LRR or MLRA): LRR O Lat: 30°44'24.7 | | | | | | | |
| · · · · · · · · · · · · · · · · · · · | NWI Classification: | | | | | | |
| Are climatic / hydrologic conditions on the site typical for this time of year? | | | | | | | |
| | ? Are "Normal Circumstances" present? Yes X No | | | | | | |
| Are Vegetation, Soil, or Hydrology naturally problematic: | | | | | | | |
| regetation, con, or rejaining,natarany presionate | (in the second of the second o | | | | | | |
| SUMMARY OF FINDINGS – Attach site man showing sar | npling point locations, transects, important features, etc. | | | | | | |
| Attach site map showing sta | | | | | | | |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Area | | | | | | |
| Hydric Soil Present? Yes X No | within a Wetland? Yes X No | | | | | | |
| Wetland Hydrology Present? Yes X No | | | | | | | |
| Remarks: | | | | | | | |
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| 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 High Water Table (A2) Marl Deposits (B15) |) Sparsely Vegetated Concave Surface (B8) (LRR U) X Drainage Patterns (B10) | | | | | | |
| Saturation (A3) Hydrogen Sulfide O | | | | | | | |
| X Water Marks (B1) Oxidized Rhizospheres on Living Roots (C3) Dry-Season Water Table (C2) | | | | | | | |
| | res on Living Roots (C3) Dry-Season Water Table (C2) | | | | | | |
| Sediment Deposits (B2) Presence of Reduce | res on Living Roots (C3) Dry-Season Water Table (C2) ed Iron (C4) Crayfish Burrows (C8) | | | | | | |
| Sediment Deposits (B2) Presence of Reduce | ores on Living Roots (C3) Indicate Iron (C4) Indicate Iron (C4) Indicate Iron (C4) Indicate Iron (C4) Indicate Iron (C2) Indicate Iron (C3) | | | | | | |
| Sediment Deposits (B2) Third Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Presence of Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduct Recent Iron Recent Iron Reduct Recent Iron Recent Iron Reduct Recent Iron Recent I | res on Living Roots (C3) or living Roots (C3) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) (C7) X Geomorphic Position (D2) Shallow Aquitard (D3) | | | | | | |
| Sediment Deposits (B2) Third Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Presence of Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduct Recent Iron Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduct Recent Iron Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduct Recent Iron Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduct Recent Iron Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduct Recent Iron Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduct Recent Iron | res on Living Roots (C3) ad Iron (C4) on in Tilled Soils (C6) (C7) marks) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) X Geomorphic Position (D2) Shallow Aquitard (D3) X FAC-Neutral Test (D5) | | | | | | |
| Sediment Deposits (B2) X Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) X Water-Stained Leaves (B9) Presence of Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduction Reductio | res on Living Roots (C3) or living Roots (C3) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) (C7) X Geomorphic Position (D2) Shallow Aquitard (D3) | | | | | | |
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| Sampling Point | 12 |
|----------------|----|
| | |

| , , | <u> </u> | | | Dominance Test worksheet: |
|---|-----------|-----------------|------------|---|
| | Absolute | Dominant | Indicator | Dominance rest worksneet. |
| Tree Stratum (Plot size: 30' Radius) | % Cover | | Status | Number of Dominant Species |
| Carya illinoensis (Hickory,pecan) | 60 | <u> </u> | FAC | That Are OBL, FACW, or FAC: 10 (A) |
| Celtis laevigata (Sugar-berry) | 40 | <u> </u> | FACW | /// ////////////////////////////////// |
| | | | | Total Number of Dominant |
| 3. Diospyros virginiana (Persimmon,common) | | | FAC | Species Across All Strata: 10 (B) |
| 4. Gleditsia aquatica (Water-locust) | 15 | | OBL | (b) |
| 5 | | | | Percent of Dominant Species |
| 6 | | | | That Are OBL, FACW, or FAC: 100 (A/B) |
| 7 | | | | (14b) |
| 8. | | | | Prevalence Index worksheet: |
| | 135 | = Total Cov | er | Total % Cover of: Multiply by: |
| 50 % of total cover: 67.5 | | of total cover: | | OBL species x 1 = |
| <u> </u> | | | | 1 |
| Sapling/Shrub Stratum (Plot size: 30' Radius) | | | | FACW species X 2 = |
| Cephalanthus occidentalis (Buttonbush,common) | 10 | Υ | OBL | FAC species X 3 = |
| | | | | FACU species X 4 = |
| Forestiera acuminata (Privet,swamp) | | <u>r</u> | OBL | UPL species |
| 3 | | | | · · · · · · · · · · · · · · · · · · · |
| 4 | | | | Column Totals: (A) (B) |
| 5 | | | | |
| 6. | | | | Prevalence Index = B/A = |
| 7. | | | | Hydrophytic Vegetation Indicators: |
| 8. | | | | |
| · | 20 | = Total Cov | or | 1 – Rapid Test for Hydrophytic Vegetation |
| 50 % of total cover: 10 | | of total cover: | | X 2 – Dominance Test is > 50% |
| 30 % of total cover | _ 20 /6 0 | i total cover. | | 3 – Prevalence Test is ≤ 3.0 ¹ |
| Herb Stratum (Plot size: 30' Radius) | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| | | | E4014/ | |
| Boehmeria cylindrica (False-nettle,small-spike) | | <u>Y</u> | FACW | ¹ Indicators of hydric soil and wetland hydrology must |
| Brunnichia cirrhosa (Redvine) | | Y | FACW | be present, unless disturbed or problematic. |
| Aster pilosus (Aster, white heath) | 10 | Y | FAC | Definitions of Vegetation Strata: |
| 4 | | | | |
| 5 | | | | Tree – Woody plants, excluding woody vines, |
| 6. | | | | approximately 20 ft (6 m) or more in height and 3 in. |
| 7. | | | | (7.6 cm) or larger in diameter at breast height (DBH). |
| 0 | | | | Sapling – Woody plants, excluding woody vines, |
| 0 | | | | approximately 20 ft (6 m) or more in height and less |
| · · · · · · · · · · · · · · · · · · · | | | | than 3 in. (7.6 cm) DBH. |
| 10 | | | | |
| 11 | | | | Shrub – Woody plants, excluding woody vines, |
| 12 | | | | approximately 3 to 20 ft (1 to 6 m) in height. |
| | 45 | = Total Cov | er | Hort All banks account (account of a locate in alreading |
| 50 % of total cover: <u>22.5</u> | 20 % o | of total cover: | 9 | Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody |
| | | | | plants, except woody vines, less than approximately |
| Woody Vine Stratum (Plot size: 30' Radius) | | | | 3 ft (1 m) in height. |
| Vitis riparia (Grape,river-bank) | 20 | Υ | FACW | |
| Campsis radicans (Trumpet-creeper) | 15 | Y | FAC | Woody vine – All woody vines, regardless of height. |
| Toxicodendron radicans (Ivy,poison) | 10 | Y | FAC | |
| | 5 | | | |
| | | | <u>FAC</u> | |
| 5 | | | | |
| | 50 | = Total Cov | er | |
| 50 % of total cover: 25 | 20 % 0 | of total cover: | 10 | Hydrophytic |
| | _ | | | Vegetation |
| | | | | Present? |
| | | | | |
| Describe (helicide al.) | -1 | | | |
| Remarks: (Include photo numbers here or on a separate | sneet.) | | | |
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| Profile Desc Depth | ription: (Describe Matrix | to the depti | | nent the indox Featu | | or confirm | the absence | of indicators.) | | |
|-----------------------|------------------------------|--------------|---|---|-------------------------------|------------------|-----------------------|--------------------|---------------------------|--|
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | 1 | Remarks | |
| 0-2 | 10YR 3/2 | 100 | | | N/A | N/A | Clay Loam | | | |
| 2-10 | 10YR 4/2 | 95 | 10YR 3/6 | 1 | С | M | Clay | | | |
| | | | 7.5YR 4/6 | 4 | C | M | Clay | | | |
| 10-18+ | 10YR 4/1 | 94 | 10YR 4/2 | 2 | | M | Clay | | | |
| 10 101 | 10111 4/1 | | 10YR 3/4 | 4 | | M | Clay | | | |
| | | | 10110 3/4 | | | | Clay | | | |
| | | | | | | | | | | |
| ¹Type: C=Co | oncentration, D=Dep | oletion, RM= | Reduced Matrix, CS | S=Covere | d or Coate | d Sand G | rains. ² l | | re Lining, M=Matrix. | |
| Hydric Soil I | ndicators: | | | | | | Indica | itors for Probler | natic Hydric Soils³: | |
| Histosol (| A1) | | Polyvalue Be | low Surfac | ce (S8) (Li | RR S, T, U | J)1 cm | Muck (A9) (LRR | O) | |
| Histic Epi | pedon (A2) | | Thin Dark Su | Polyvalue Below Surface (S8) (LRR S, T, U)1 cm Muck (A9) (LRR O)2 cm Muck (A10) (LRR S) | | | | | | |
| Black His | tic (A3) | | Loamy Gleye | d Matrix (I | F1) (LRR (| O) | Redu | ced Vertic (F18) | (outside MLRA 150A,B) | |
| Hydrogen | Sulfide (A4) | | Loamy Gleye | d Matrix (I | F2) | | Piedr | nont Floodplain S | Soils (F19) (LRR P, S, T) | |
| Stratified | Layers (A5) | | X Depleted Mat | rix (F3) | | | Anon | nalous Bright Loa | my Soils (F20) | |
| _ | Bodies (A6) (LRR P, | T, U) | Redox Dark S | | 6) | | | LRA 153B) | | |
| 5 cm Muc | ky Mineral (A7) (LR | R P, T, U) | Depleted Dar | k Surface | (F7) | | Red I | Parent Material (1 | ΓF2) | |
| Muck Pre | sence (A8) (LRR U |) | Redox Depre | ssions (F8 | 3) | | Very | Shallow Dark Su | rface (TF12) | |
| 1 cm Muc | k (A9) (LRR P, T) | | Marl (F10) (L | | | | Other | r (Explain in Rem | arks) | |
| Depleted | Below Dark Surface | e (A11) | Depleted Och | ric (F11) | (MLRA 15 | 1) | | | | |
| Thick Dar | k Surface (A12) | | Iron Mangane | ese Masse | es (F12) (L | RR O, P, | T) 31.2.21: | | | |
| Coast Pra | airie Redox (A16) (N | ILRA 150A) | Umbric Surface (F13) (LRR P, T, U) "Indicators of Hydrophytic vegetation and wetland hydrology must be present, unless | | | | | | | |
| · | ıcky Mineral (S1) (L | | Delta Ochric (F17) (MLRA 151) wetland hydrology must be present, unless disturbed or problematic. | | | | | | | |
| Sandy Gl | eyed Matrix (S4) | | Reduced Vertic (F18) (MLRA 150A, 150B) | | | | | | | |
| Sandy Re | edox (S5) | | Piedmont Floodplain Soils (F19) (MLRA 149A) | | | | | | | |
| Stripped I | Matrix (S6) | | Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) | | | | | | | |
| Dark Surf | ace (S7) (LRR P, S | , T, U) | | | | | | | | |
| | ayer (if observed) | : | | | | | | | | |
| Type: | | | <u>—</u> | | Hydric Soil Present? Yes X No | | | | | |
| Depth (inc | ches): | | <u></u> | | | | | | | |
| Remarks: | | | | | I | | | | | |
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Appendix B PHOTOGRAPHS



Photograph 1. Soil Profile Observed at Plot 1



Photograph 2. Soil Profile Observed at Plot 2



Photograph 3. Overview of the Habitat Observed at Plot 2, Facing North



Photograph 4. Overview of the Habitat Observed at Plot 2, Facing Southwest



Photograph 5. Soil Profile Observed at Plot 3



Photograph 6. Overview of the Habitat Observed at Plot 3, Facing Northwest



Photograph 7. Overview of the Habitat Observed at Plot 3, Facing Southwest



Photograph 8. Soil Profile Observed at Plot 4



Photograph 9. Overview of the Habitat Observed at Plot 4, Facing South



Photograph 10. Overview of the Habitat Observed at Plot 4, Facing North



Photograph 11. Soil Profile Observed at Plot 5



Photograph 12. Overview of the Habitat Observed at Plot 5, Facing South



Photograph 13. Overview of the Habitat Observed at Plot 5, Facing North





Photograph 15. Overview of the Habitat Observed at Plot 6, Facing East



Photograph 16. Overview of the Habitat Observed at Plot 6, Facing North



Photograph 17. Soil Profile Observed at Plot 7



Photograph 18. Overview of the Habitat Observed at Plot 7, Facing North



Photograph 19. Overview of the Habitat Observed at Plot 7, Facing East





Photograph 21. Overview of the Habitat Observed at Plot 8, Facing East



Photograph 22. Overview of the Habitat Observed at Plot 8, Facing North



Photograph 23. Soil Profile Observed at Plot 9



Photograph 24. Overview of the Habitat Observed at Plot 9, Facing East



Photograph 25. Overview of the Habitat Observed at Plot 9, Facing West





Photograph 27. Overview of the Habitat Observed at Plot 10, Facing South



Photograph 28. Overview of the Habitat Observed at Plot 10, Facing North



Photograph 29. Soil Profile Observed at Plot 11



Photograph 30. Overview of the Habitat Observed at Plot 11, Facing Northwest



Photograph 31. Overview of the Habitat Observed at Plot 11, Facing Southeast



Photograph 32. Soil Profile Observed at Plot 12



Photograph 33. Overview of the Habitat Observed at Plot 12, Facing South



Photograph 34. Overview of the Habitat Observed at Plot 12, Facing East



Photograph 35. Large Pond at Northeast Portion of Property Just South of LA Highway 981



Photograph 36. Drainage Canal Along the East Side of the Property, Facing North



Photograph 37. Drainage Canal Along the East Side of the Property, Facing South



Photograph 38. Large Pond South of LA Highway 10, Facing Southeast



Photograph 39. Smaller Pond South of LA Highway 10, Facing West



Photograph 40. Wetland Drain Traversing Through the Center of the Property South of LA Highway 10, Facing East



Photograph 41. Excavated Drainage Canal Traversing the Center of the Property, Facing South