

CYPRESS

Environment & Infrastructure

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October 5, 2022

Regulatory Division, Vicksburg District
US Army Corps of Engineers
4155 Clay Street
Vicksburg, MS 39183

Re: Request for Preliminary Jurisdictional Determination
A 480-acre site in Hancock County, Mississippi

To whom it may concern:

On behalf of Hancock County Port and Harbor Commission, Cypress Environment & Infrastructure (Cypress) respectfully requests a Preliminary Jurisdictional Determination (PJD) for a 480-acre site in Hancock County, Mississippi. The following supporting documents have been included for review:

- Preliminary Jurisdictional Determination (PJD) Request Form
- Wetland Delineation Report

Please review the attached information for completeness. If you have any questions, please contact me at lspurrier@cypressei.com or 847-363-1275.

Sincerely,
Cypress Environment & Infrastructure



Lindsay Spurrier
Environmental Planner

Appendix 2 - PRELIMINARY JURISDICTIONAL DETERMINATION (PJD) FORM

BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PJD: September 21, 2022

B. NAME AND ADDRESS OF PERSON REQUESTING PJD:

Lindsay Spurrier
Cypress Environment & Infrastructure
906 Desoto Street,
Ocean Springs, MS 39564

C. DISTRICT OFFICE, FILE NAME, AND NUMBER: Vicksburg District

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION: Project is located southwest of Lower Bay Road and northwest of Webre Road. The site is part of Port Bienville Industrial Park.

(USE THE TABLE BELOW TO DOCUMENT MULTIPLE AQUATIC RESOURCES AND/OR AQUATIC RESOURCES AT DIFFERENT SITES)

State: MS County/parish/borough: Hancock City:

Center coordinates of site (lat/long in degree decimal format):

Lat.: 30.233602° Long.: -89.546249°

Universal Transverse Mercator: Zone: 16 Easting: 254957.38m Northing: 3347413.63m

Name of nearest waterbody: Mulatto Bayou

E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

☐ Office (Desk) Determination. Date:

☒ Field Determination. Date(s): June 2, 2022- August 31, 2020. See Delineation Report for details

TABLE OF AQUATIC RESOURCES IN REVIEW AREA WHICH "MAY BE" SUBJECT TO REGULATORY JURISDICTION.

Site number	Latitude (decimal degrees)	Longitude (decimal degrees)	Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable)	Type of aquatic resource (i.e., wetland vs. non-wetland waters)	Geographic authority to which the aquatic resource "may be" subject (i.e., Section 404 or Section 10/404)
OWUS 1	30.234998°	-89.553125°	486.8 LF, 0.08 acre	Nonwetland waters, riverine intermittent	Section 404
OWUS 2	30.233308°	-89.554246°	1,973.1 LF, 0.17 acre	Nonwetland waters, riverine ephemeral	Section 404
OWUS 3	30.234612°	-89.552921°	480.0 LF, 0.11 acre	Nonwetland waters, riverine intermittent	Section 404
OWUS 4	30.240422°	-89.542691°	1,025.1 LF, 0.20 acre	Nonwetland waters, riverine perennial	Section 404
OWUS 5	30.232258°	-89.545542°	1,539.3 LF, 0.35 acre	Nonwetland waters, riverine perennial	Section 404
OWUS 6	30.235481°	-89.54353°	2,204.2 LF, 0.65 acre	Nonwetland waters, riverine perennial	Section 404

OWUS 7	30.235415°	-89.543458°	4,330.5 LF, 1.20 acre	Nonwetland waters, riverine perennial	Section 404
OWUS 8	30.229326°	-89.542165°	41.0 LF, 41.0 acres	Nonwetland waters, pond	Section 404
Wetland 1	30.234945°	-89.554888°	69.45 acres	Wetland	Section 404
Wetland 2	30.232585°	-89.549191°	83.26 acres	Wetland	Section 404
Wetland 3	30.235773°	-89.542978°	185.80 acres	Wetland	Section 404
Wetland 4	30.241375°	-89.542428°	0.14 acre	Wetland	Section 404
Wetland 5	30.229524°	-89.542693°	15.20 acres	Wetland	Section 404
Wetland 6	30.229291°	-89.540261°	0.12 acre	Wetland	Section 404
Wetland 7	30.227688°	-89.546703°	18.98 acres	Wetland	Section 404
Wetland 8	30.225724°	-89.546014°	1.06 acre	Wetland	Section 404

- 1) The Corps of Engineers believes that there may be jurisdictional aquatic resources in the review area, and the requestor of this PJD is hereby advised of his or her option to request and obtain an approved JD (AJD) for that review area based on an informed decision after having discussed the various types of JDs and their characteristics and circumstances when they may be appropriate.
- 2) In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an AJD for the activity, the permit applicant is hereby made aware that: (1) the permit applicant has elected to seek a permit authorization based on a PJD, which does not make an official determination of jurisdictional aquatic resources; (2) the applicant has the option to request an AJD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an AJD could possibly result in less compensatory mitigation being required or different special conditions; (3) the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) undertaking any activity in reliance upon the subject permit authorization without requesting an AJD constitutes the applicant's acceptance of the use of the PJD; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a PJD constitutes agreement that all aquatic resources in the review area affected in any way by that activity will be treated as jurisdictional, and waives any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an AJD or a PJD, the JD will be processed as soon as practicable. Further, an AJD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331. If, during an administrative appeal, it becomes appropriate to make an official determination whether geographic jurisdiction exists over aquatic resources in the review area, or to provide an official delineation of jurisdictional aquatic resources in the review area, the Corps will provide an AJD to accomplish that result, as soon as is practicable. This PJD finds that there "*may be*" waters of the U.S. and/or that there "*may be*" navigable waters of the U.S. on the subject review area, and identifies all aquatic features in the review area that could be affected by the proposed activity, based on the following information:

SUPPORTING DATA. Data reviewed for PJD (check all that apply)

Checked items should be included in subject file. Appropriately reference sources below where indicated for all checked items:

- ☐ Maps, plans, plots or plat submitted by or on behalf of the PJD requestor:
Map: _____.
- ☐ Data sheets prepared/submitted by or on behalf of the PJD requestor.
☐ Office concurs with data sheets/delineation report.
☐ Office does not concur with data sheets/delineation report. Rationale: _____.
- ☐ Data sheets prepared by the Corps: _____.
- ☐ Corps navigable waters' study: _____.
- ☐ U.S. Geological Survey Hydrologic Atlas:
☐ USGS NHD data. USGS National Hydrography Dataset. <http://www.uegs.gov/core-science-systems/national-hydrography/access-national-hydrography-products>
☐ USGS 8 and 12 digit HUC maps.
- ☐ U.S. Geological Survey map(s). Cite scale & quad name: _____.
- ☐ Natural Resources Conservation Service Soil Survey. Citation:
United States Department of Agriculture, Natural Resource Conservation Service. Custom Soils Resource Report for Walthall County, Mississippi. Natural Resources Conservation Service, United States Department of Agriculture. Web Soil Survey. <http://websoilsurvey.es.egov.usda.gov/>. Accessed June 2020 _____.
- ☐ National wetlands inventory map(s). Cite name: _____.
- ☐ State/local wetland inventory map(s): _____.
- ☐ FEMA/FIRM maps: _____.
- ☐ 100-year Floodplain Elevation is: _____.(National Geodetic Vertical Datum of 1929)
- ☐ Photographs: ☐ Aerial (Name & Date): _____.
or ☐ Other (Name & Date): Field Photos _____.
- ☐ Previous determination(s). File no. and date of response letter: _____.
- ☐ Other information (please specify): _____.

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

Signature and date of
Regulatory staff member
completing PJD

Signature and date of
person requesting PJD
(REQUIRED, unless obtaining
the signature is impracticable)¹

¹ Districts may establish timeframes for requestor to return signed PJD forms. If the requestor does not respond within the established time frame, the district may presume concurrence and no additional follow up is necessary prior to finalizing an action.

WETLAND DELINEATION

Port Bienville Site I
Hancock County, Mississippi

Prepared for:
Hancock County Port and Harbor Commission

Date:
September 21, 2022

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1 Scope and Purpose

This report provides an opinion on the presence and extent of potentially jurisdictional Wetlands and Other Waters of the United States (U.S.) within the subject site. Only the U.S. Army Corps of Engineers (USACE) can make an official determination of Wetlands and Other Waters of the U.S. or regulatory jurisdiction over property.

This wetland delineation was completed in accordance with the requirements of the USACE 1987 Wetland Delineation Manual and the specifications found in the latest USACE guidelines; the USACE Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coast Plain Region (Version 2.0). This report can be used to assist USACE personnel in rendering a determination of the Wetland and Other Waters of the U.S. status of the site.

The USACE and the Environmental Protection Agency define wetlands as “areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions.” The three diagnostic characteristics a site must exhibit to be classified as wetlands by the USACE are hydric soils, a prevalence of hydrophytic vegetation, and wetland hydrology.

2 Site Location and Boundaries

2.1 Site Location

The 480.90-acre site is located within the Port Bienville Industrial Park approximately three miles north of Lake Borgne, six miles south of Interstate 10, three miles east of Pearllington, Mississippi and centered at 30.233602°, -89.546249°. Figure 1 in Appendix A shows the vicinity and location of the site.

2.2 Site Description

The site consists of undeveloped land between Lower Bay Road, Webre Road, and the Port Bienville Railroad. The surrounding area includes industrial development, agriculture, creeks and bayous, and undeveloped land comprised of marsh and forested areas. The site is a mix of pine savanna, scrub shrub wetlands, forested wetlands, emergent wetlands, and forested uplands. There are established and maintained access roads throughout the property, as well as a clearing that was historically developed near the northeast boundary.

3 Methodology

3.1 Preliminary Data Analysis

Prior to conducting fieldwork, Cypress compiled spatial data to determine the probable location of wetland and nonwetland areas across the site. Spatial data included:

- United States Geological Survey (USGS) 7.5-minute topographic
- United States Department of Agriculture (USDA) Soil Survey
- USGS National Hydrography Dataset (NHD)

3.1.1 USGS 7.5-minute Topographic Map

Site specific elevation and geomorphic characteristics are shown in the USGS topographic map (Appendix A, Figure 2).

3.1.2 USDA Soil Series

Eight soil types were identified within the site; four are listed as predominantly hydric while the other four are listed as predominantly non-hydric by the Natural Resource Conservation Service. Atmore silt loam, 0-2% slopes, Plummer loamy sand, 0-2% slopes, Smithton Association frequently flooded, 0-2% slopes, and Smithton fine sandy loam, frequently flooded are predominantly hydric. Beauregard silt loam, 0-1% slopes, Escambia loam, 0-2% slopes, Harleston fine sandy loam, 0-2% slopes, Ocilla loamy sand, 0-2% slopes are listed as predominantly non-hydric. The soil types are summarized in Table 1 and mapped in Figure 3 (Appendix A).

Table 1: USDA Soils

Soil Unit Name	Symbol	% Slope	% Hydric	Drainage Class	Parent Material
Atmore silt loam	At	0-2	85	Poorly drained	Silty alluvium over fine-loamy alluvium derived from sedimentary rock
Beauregard silt loam	Be	0-1	9	Moderately well drained	Loamy alluvium
Escambia loam	EsA	0-2	6	Somewhat poorly drained	Sandy and loamy marine deposits
Harleston fine sandy loam	H A	0-2	10	Moderately well drained	Loamy alluvium derived from sedimentary rock
Ocilla loamy sand	Oc	0-2	8	Somewhat poorly drained	Sandy and loamy alluvium derived from sedimentary rock
Plummer loamy sand	Pe	0-2	94	Poorly drained	Sandy marine deposits
Smithton Association, frequently flooded	SW	0-2	100	Poorly drained	Loamy alluvium
Smithton fine sandy loam, frequently flooded	Su	0-2	100	Poorly drained	Loamy alluvium

3.1.3 USGS National Hydrography Dataset

The United States Geologic Survey (USGS) National Hydrography Dataset (NHD) published June 5, 2022, shows several NHD features within the site including flowlines that are listed as either canal/ditches, artificial path, or stream/rivers (Appendix A, Figure 4).

3.2 Field Survey

Fieldwork was performed to collect data points characterizing site wetland and nonwetland conditions on the following dates:

- June 2, 2022
- June 7, 2022
- June 14, 2022
- June 30, 2022
- July 8, 2022
- July 9, 2022
- July 13, 2022
- July 15, 2022
- July 19, 2022
- July 20, 2022
- July 27, 2022
- August 5, 2022
- August 8, 2022
- August 11, 2022
- August 15, 2022
- August 31, 2022

At each data point, hydrology, vegetation, and soils were characterized and documented.

Wetland determinations were made using the observable vegetation, hydrology, and soils in accordance with the standard approach described in the USACE Wetland Delineation Manual (1987) and the Regional Supplement to the USACE Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (2010). After fieldwork, the USACE's Antecedent Precipitation Tool (APT) was used to determine if normal circumstances were present on site for each field survey day. Wetland boundaries and locations were recorded by a handheld global positioning system (GPS) device (Trimble Geo 7X).

Wetland Determination Data Forms were completed at each data point in representative areas within wetlands and nonwetlands and are provided in Appendix B. Areas which met all three hydric criteria were considered wetlands. A total of 38 data points were sampled throughout the site.

After fieldwork was completed, spatial data was entered into GIS software (ArcPro 2.8.6), the potentially jurisdictional areas were mapped, and areas and lengths were calculated.

4 Survey Findings

4.1 Soils

Soils observed and characterized onsite were found to be consistent with the mapped USDA soils. Detailed descriptions of soils characterized in proposed wetland and nonwetland areas can be found in the Wetland Determination Data Forms in Appendix B. Wetland soils were observed at 26 data points across the site.

4.2 Vegetation

The site is characterized by upland access roads and a clearing, pine savannas, scrub-shrub wetlands, forested wetlands, emergent wetlands, and forested uplands. Detailed descriptions of vegetation found throughout the site is provided in the Wetland Determination Data Forms attached as Appendix B. Positive evidence of hydric vegetation was found at 37 data points across the site.

4.2.1 Upland Access Roads & Clearing

The upland access roads and historically developed upland clearing are periodically mowed. The herb stratum is dominated by *Axonopus compressus* and *Paspalum notatum*. There is no vegetation present in the tree, sapling, shrub, and woody vine strata. Data Point 32 was taken within the historically developed upland clearing near the northeast boundary, and Data Points 34 and 35 were taken within the upland access roads.

4.2.2 Pine Savannas

The pine savannas are dominated by *Magnolia virginiana*, *Nyssa sylvatica*, *Pinus elliotii*, *Pinus taeda*, and *Triadica sebifera* in the tree stratum. The sapling stratum is dominated by *Acer rubrum*, *Ilex coriacea*, *Ilex vomitoria*, *Liquidambar styraciflua*, *Magnolia virginiana*, *Morella cerifera*, *Persea borbonia*, *Pinus elliotii*, and *Pinus taeda*. The shrub stratum is dominated by *Baccharis halimifolia*, *Ilex coriacea*, *Ilex glabra*, *Ilex coriacea*, *Liquidambar styraciflua*, *Magnolia virginiana*, *Morella cerifera*, *Nyssa sylvatica*, *Pinus elliotii*, *Pinus taeda*, and *Triadica sebifera*. The herb stratum is dominated by *Andropogon mohrii*, *Baldunia uniflora*, *Carex cherokeensis*, *Carex glaucescens*, *Dichanthelium acuminatum*, *Ilex glabra*, *Ilex vomitoria*, *Lachnanthes caroliniana*, *Lycopodiella alopecuroides*, *Rhynchospora elliotii*, and *Osmundastrum cinnamomeum*. The woody vine stratum is dominated by *Rubus argutus*, and *Toxicodendron radicans*.

4.2.3 Scrub-Shrub Wetlands

The scrub-shrub wetlands appear to be within an overgrown railroad right-of-way. The sapling and shrub strata are dominated by *Pinus elliotii*. The herb stratum is dominated by *Andropogon mohrii*, *Baldunia uniflora*, and *Rhynchospora elliotii*. There is no vegetation present in the tree and woody vine strata. Data Point 38 is within the only scrub-shrub wetland found onsite.

4.2.4 Forested Wetlands

The forested wetlands are dominated by *Cyrilla racemiflora*, *Magnolia virginiana*, *Nyssa sylvatica*, *Pinus elliotii*, *Quercus laurifolia*, *Quercus nigra*, and *Triadica sebifera* in the tree stratum. The sapling stratum is dominated by *Acer rubrum*, *Cyrilla racemiflora*, *Diospyros virginiana*, *Ilex coriacea*, *Ilex vomitoria*, *Illicium floridanum*, *Magnolia virginiana*, *Morella cerifera*, *Nyssa sylvatica*, *Pinus elliotii*, *Quercus nigra*, *Rhododendron viscosum*, and *Triadica sebifera*. The shrub stratum is dominated by *Acer rubrum*, *Ilex coriacea*, *Ilex glabra*, *Ilex opaca*, *Ilex vomitoria*, *Lyonia lucida*, *Magnolia virginiana*, *Morella cerifera*, *Rhododendron viscosum*, and *Vaccinium arboretum*. The herb stratum is dominated by *Acer rubrum*, *Andropogon mohrii*, *Carex cherokeensis*, *Carex glaucescens*, *Centella erecta*, *Dichanthelium scoparium*, *Ilex coriacea*, *Ilex glabra*, *Ilex vomitoria*, *Lyonia lucida*, *Panicum repens*, *Proserpinaca palustris*, *Quercus nigra*, *Rhynchospora cephalantha*, *Rhynchospora elliotii*, *Toxicodendron radicans*, *Triadica sebifera*, and *Vitis rotundifolia*. The woody vine stratum is dominated by *Smilax laurifolia*, *Smilax rotundifolia*, *Toxicodendron radicans*, and *Vitis rotundifolia*.

4.2.5 Emergent Wetlands

The emergent wetlands onsite consist of herbaceous access roads and two disturbed clearings. The shrub stratum is dominated by *Pinus elliotii* and *Morella cerifera*. The herb stratum is dominated by *Andropogon mohrii*, *Axonopus compressus*, *Carex turgescens*, *Paspalum urvillei*, and *Rhynchospora elliotii*. There is no vegetation present in the tree, sapling, or woody vine strata. Data Point 12 is within a man-made depression surrounded by wetland forests. Data Point 19 is

a wetland lower in topography than the surrounding areas. Data Points 33, 36, and 37 were taken in maintained herbaceous access roads.

4.2.6 Forested Uplands

The forested uplands are dominated by *Acer rubrum*, *Magnolia grandiflora*, *Nyssa sylvatica*, *Pinus elliotii*, *Quercus nigra*, *Quercus stellata*, and *Quercus virginiana* in the tree stratum. The sapling stratum is dominated by *Acer rubrum*, *Diospyros virginiana*, *Ilex opaca*, *Ilex vomitoria*, *Magnolia grandiflora*, *Magnolia virginiana*, *Morella cerifera*, *Nyssa sylvatica*, *Pinus elliotii*, and *Quercus nigra*. The shrub stratum is dominated by *Acer rubrum*, *Ilex vomitoria*, *Morella cerifera*, *Persea borbonia*, *Quercus nigra*, *Symplocos tinctoria*, and *Triadica sebifera*. The herbaceous stratum is dominated by *Chasmanthium sessiliflorum*, *Ilex opaca*, *Ilex vomitoria*, *Morella cerifera*, *Quercus stellata*, *Symplocos tinctoria*, *Toxicodendron radicans*, and *Vitis rotundifolia*. The woody vine stratum is dominated by *Smilax bona-nox*, *Smilax glauca*, *Smilax rotundifolia*, *Toxicodendron radicans*, and *Vitis rotundifolia*.

4.3 Hydrology

Hydrology indicators found on the site include surface water, high water table, saturation, water marks, drift deposits, inundation visible on aerial imagery, water-stained leaves, hydrogen sulfide odor, oxidized rhizospheres on living roots, thin muck surface, sparsely vegetated concave surface, drainage patterns, crayfish burrows, geomorphic position, FAC-neutral test, and sphagnum moss. According to the APT, two field survey days, July 19 and 20, 2022, were considered wetter than normal circumstances. During these field survey days, wetland hydrology was considered present due to the presence of one or more hydrology indicators not including surface water, high water table, or saturation. Positive evidence of wetland hydrology was found at 25 data points across the site.

5 Conclusion

5.1 Wetlands

Evidence observed and documented indicates that portions of the site potentially meet the established wetland criteria. The evidence for this determination includes identification of wetland plant species, the presence of hydric soils, and the presence of primary and/or secondary wetland hydrology indicators. Evidence of all three wetland indicators was found at 25 of the 38 data points.

Based on field observations, data point characterizations, soil surveys, aerial photography, elevation data, hydrologic data, and topographic data, Cypress mapped the proposed wetland delineation boundaries shown in Appendix A, Figure 5. The total proposed wetland area covers approximately 374.01 acres and consists of 2.10 acres of potential Palustrine Emergent Wetlands, 0.14 acre of potential Palustrine Scrub-shrub wetlands, and 371.65 acres of potential Palustrine Forested Wetlands. Appendix C contains photos of the wetlands onsite. Appendix D contains the flagging key maps depicting individual flag locations, flag identification numbers, and descriptions of the flagging sequences. Wetlands identified within the site are summarized in Table 2.

Table 2: Potential Wetlands Identified Within the Site

Feature Label	Area (ac)	Latitude	Longitude
Wetland 1	69.45	30.234945°	-89.554888°
Wetland 2	83.26	30.232585°	-89.549191°
Wetland 3	185.80	30.235773°	-89.542978°
Wetland 4	0.14	30.241375°	-89.542428°
Wetland 5	15.20	30.229524°	-89.542693°
Wetland 6	0.12	30.229291°	-89.540261°
Wetland 7	18.98	30.227688°	-89.546703°
Wetland 8	1.06	30.225724°	-89.546014°

5.2 Other Waters of the U.S.

The NHD shows several water flowlines throughout the site (Appendix A, Figure 4). Several of the NHD features were characterized as vegetated drainage ways and delineated as potential wetlands (Appendix A, Figure 5). Potential Other Waters of the U.S. onsite were distinguished from wetlands by little to no vegetative cover and the presence of a bed and bank.

There are eight potential Other Waters of the U.S. onsite: two intermittent man-made ditches, three perennial man-made ditches, one ephemeral man-made ditch, one perennial stream, and one man-made pond. Although most of the potential Other Waters found onsite are man-made, they all border and receive flow from surrounding wetlands. This connection between the man-made ditches and surrounding wetlands likely renders these man-made waters potentially jurisdictional Other Waters of the U.S.

The perennial stream is in the northeast corner of the site. The stream measures approximately 1,025.1 linear feet (LF) and was observed flowing northwest. The man-made pond is located adjacent to Wetland 5 and covers less than 0.1 acre. The other six Other Waters of the U.S. features are man-made ephemeral, intermittent, and perennial ditches with a total combined length of approximately 11,013.9 LF.

The location and extent of potentially jurisdictional Other Waters of the U.S. are shown in Appendix A, Figure 5 and Appendix D. The total proposed area and length of Other Waters of the U.S. within the site boundary is 2.78 acres and 12,080.0 LF. Potential Other Waters of the U.S. identified onsite are summarized in Table 3.

Table 3: Potential Other Waters of the U.S. Identified Within the Site

Feature Label	Feature Class	Length (ft)	Area (ac)	Latitude	Longitude
OWUS 1	Intermittent Man-made ditch	486.8	0.08	30.234998°	-89.553125°
OWUS 2	Ephemeral Man-made ditch	1,973.1	0.17	30.233308°	-89.554246°
OWUS 3	Intermittent Man-made ditch	480.0	0.11	30.234612°	-89.552921°
OWUS 4	Perennial Stream	1,025.1	0.20	30.240422°	-89.542691°
OWUS 5	Perennial Man-made ditch	1,539.3	0.35	30.232258°	-89.545542°
OWUS 6	Perennial Man-made ditch	2,204.2	0.65	30.235481°	-89.54353°
OWUS 7	Perennial Man-made ditch	4,330.5	1.20	30.235415°	-89.543458°
OWUS 8	Man-Made Pond	41.0	0.02	30.229326°	-89.542165°

6 References

- Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Web Soil Survey <http://websoilsurvey.sc.egov.usda.gov/>. Accessed 08/03/2022.
- USACE. Environmental Laboratory. 1987. *Corps of Engineers Wetlands Delineation Manual*. Technical Report Y-87-1. U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.
- USACE. 2010. *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain (Version 2.0)*. ed. Wakeley JS, Lichvar RW, and Noble CV. EDR/ EL TR- 10-20. Vicksburg, MS: U.S. Army Engineer Research and Development Center.
- USDA. Natural Resource Conservation Service (NRCS). 2006. *Field Indicators of the Hydric Soils in the United States*. Version 6.0. ed. Hurt GS and Vasilas LM. USDA, NRCS, in cooperation with the National Technical Committee for Hydric Soils.
- USDA, NRCS. 2006. *Land Resource Regions and Major Land Resource Areas of the United States, the Caribbean, and the Pacific Basin*. U.S. Department of Agriculture Handbook 296.
- United States Fish and Wildlife Service. May 2022. *National Wetland Inventory Map Electronic Data*.

Appendix A: Figures





Delineation Boundary (480.90 Acres)

0 2,000 4,000
Feet

Coordinate System: NAD 1983 State Plane
Mississippi East FIPS 2301 Feet

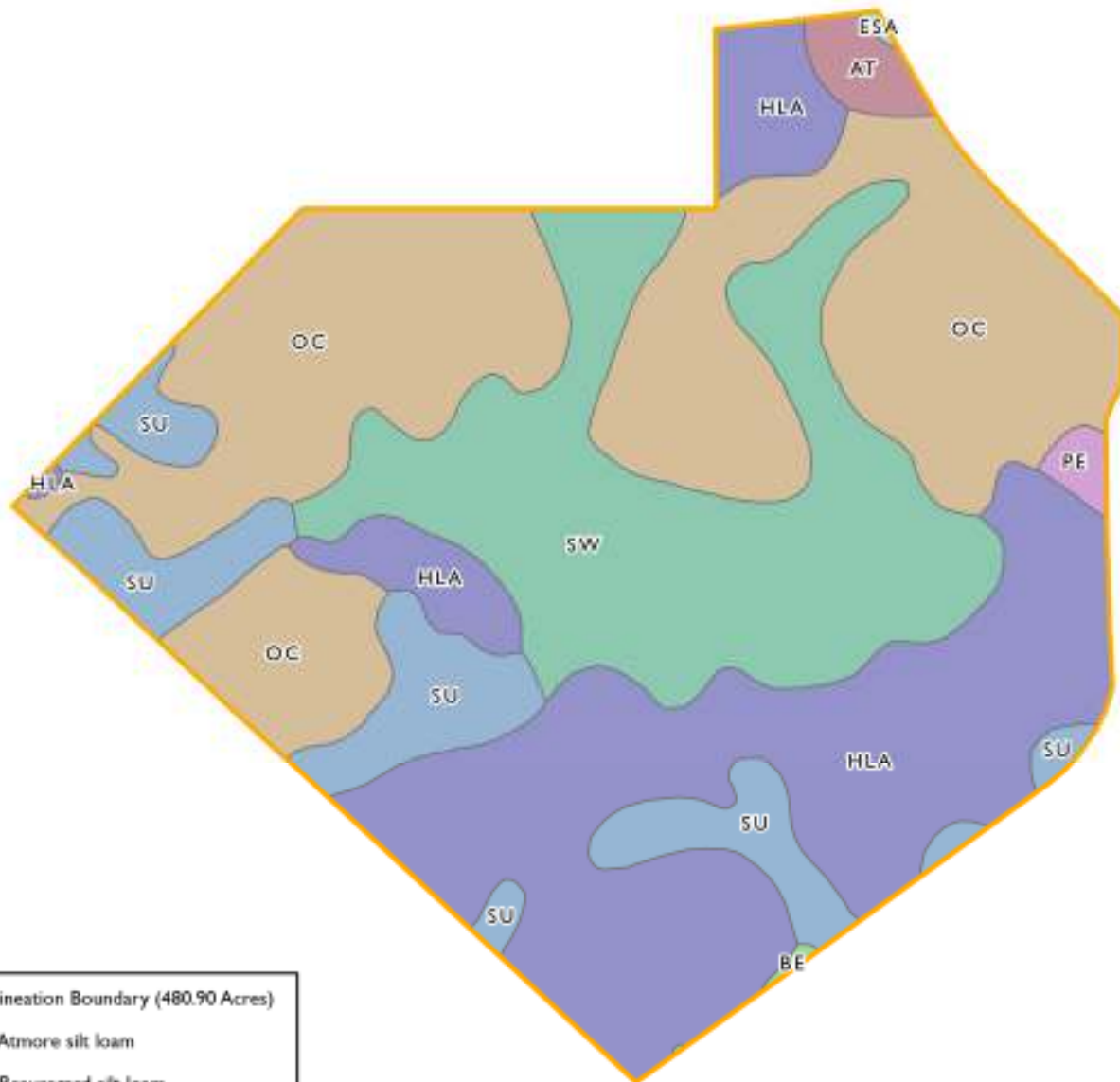
HANCOCK COUNTY PORT AND HARBOR
COMMISSION
Port Bienville Site I
Hancock County, Mississippi

USGS 7.5 MINUTE TOPOGRAPHIC MAP

CYPRESS
Environment & Infrastructure

Date: 9/13/2022

FIGURE 2



 Delineation Boundary (480.90 Acres)

- At: Atnore silt loam
- Be: Beauregard silt loam
- EsA: Escambia loam
- HIA: Harleston fine sandy loam
- Oc: Ocala loamy sand
- Pe: Plummer loamy sand
- SW: Smithton Association FF
- Su: Smithton fine sandy loam FF

0 1,000 2,000
Feet

Coordinate System: NAD 1983 State Plane
Mississippi East FIPS 2301 Feet

HANCOCK COUNTY PORT AND HARBOR
COMMISSION
Port Bienville Site I
Hancock County, Mississippi

SOILS MAP

CYPRESS
Environment & Infrastructure

Date: 9/13/2022

FIGURE 3





— National Hydrography Dataset
Flowline
— Delineation Boundary (480.90 Acres)

0 1,000 2,000
Feet

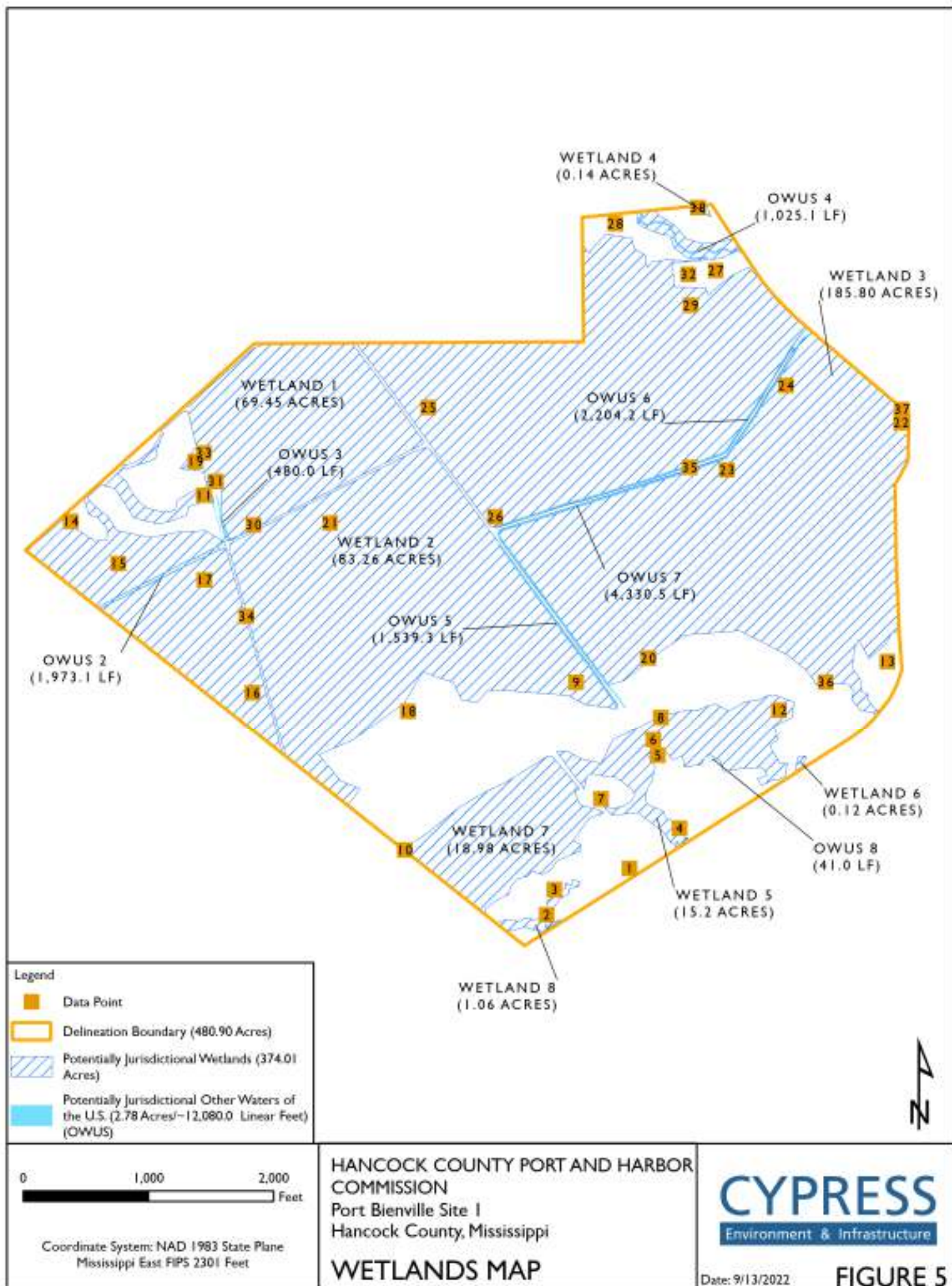
Coordinate System: NAD 1983 State Plane
Mississippi East FIPS 2301 Feet

HANCOCK COUNTY PORT AND HARBOR
COMMISSION
Port Bienville Site I
Hancock County, Mississippi
USGS NATIONAL HYDROGRAPHY
DATASET

CYPRESS
Environment & Infrastructure

Date: 9/13/2022

FIGURE 4



Appendix B: Wetland Determination Data Form
Atlantic Gulf Coastal Plain Region

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site:	Site 1	County:	Hancock	Sampling Date:	June 2, 2022
Applicant/Owner:	Hancock County Port & Harbor Commission	State:	Mississippi	Sample Point:	DP1
Investigator(s):	Beth Beals and Savannah R. Morales	Section, Township, Range:	Section 30, Township 9S, Range 15W		
Landform (hillslope, terrace, etc.):	Flat	Local relief (concave, convex, none):	None	Slope (%):	0-5
Subregion (LRR or MLRA):	MLRA 152A, LRR T	Lat:	30.22695	Long:	-89.54401
Soil Map Unit Name:	Harleston fine sandy loam, 0-2% slopes	Datum:	WGS84	NWI Classification:	None
Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) Yes (if no, explain in Remarks.)					
Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No					
Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)					

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No	Is the Sampled Area within a Wetland? Yes No X
Hydric Soil Present?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	
Remarks: This point was determined not to be within a wetland due to the lack of hydric soils and wetland hydrology.			

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)			
☐ High Water Table (A2)	☐ Marl Deposits (B15) (LRR U)	☐ Sparsely Vegetated Concave Surface (B8)			
☐ Saturation (A3)	☐ Hydrogen Sulfide Odor (C1)	☐ Drainage Patterns (B10)			
☐ Water Marks (B1)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Moss Trim Lines (B16)			
☐ Sediment Deposits (B2)	☐ Presence of Reduced Iron (C4)	☐ Dry-Season Water Table (C2)			
☐ Drift Deposits (B3)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Crayfish Burrows (C8)			
☐ Algal Mat or Crust (B4)	☐ Thin Muck Surface (C7)	☐ Saturation Visible on Aerial Imagery (C9)			
☐ Iron Deposits (B5)	☐ Other (Explain in Remarks)	☐ Geomorphic Position (D2)			
☐ Inundation Visible on Aerial Imagery (B7)		☐ Shallow Aquitard (D3)			
☐ Water-Stained Leaves (B9)		☒ FAC-Neutral Test (D5)			
		☐ Sphagnum moss (D8) (LRR T, U)			
Field Observations:				Wetland Hydrology Present? Yes No X	
Surface Water Present?	Yes No X	Depth (inches):	N/A		
Water Table Present?	Yes No X	Depth (inches):	N/A		
Saturation Present?	Yes No X	Depth (inches):	N/A		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks: No positive indication of wetland hydrology was observed.					

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-1	10YR 3/2	100					Silt Loam	High organic matter
1-4	10YR 4/3	100					Silt Loam	
4-16	2.5Y 6/6	80	2.5Y 5/3	20	C	M	Silt Loam	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.								
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)						Indicators for Problematic Hydric Soils³:		
☐ Histosol (A1)			☐ Polyvalue Below Surface (S8) (LRR S, T, U)			☐ 1 cm Muck (A9) (LRR O)		
☐ Histic Epipedon (A2)			☐ Thin Dark Surface (S9) (LRR S, T, U)			☐ 2 cm Muck (A10) (LRR S)		
☐ Black Histic (A3)			☐ Loamy Mucky Mineral (F1) (LRR O)			☐ Reduced Vertic (F18) (outside MLRA 150A,B)		
☐ Hydrogen Sulfide (A4)			☐ Loamy Gleyed Matrix (F2)			☐ Piedmont Floodplain Soils (F19) (LRR P, S, T)		
☐ Stratified Layers (A5)			☐ Depleted Matrix (F3)			☐ Anomalous Bright Loamy Soils (F20)		
☐ Organic Bodies (A6) (LRR P, T, U)			☐ Redox Dark Surface (F6)			☐ (MLRA 153B)		
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)			☐ Depleted Dark Surface (F7)			☐ Red Parent Material (TF2)		
☐ Muck Presence (A8) (LRR U)			☐ Redox Depressions (F8)			☐ Very Shallow Dark Surface (TF12)		
☐ 1 cm Muck (A9) (LRR P, T)			☐ Marl (F10) (LRR U)			☐ Other (Explain in Remarks)		
☐ Depleted Below Dark Surface (A11)			☐ Depleted Ochric (F11) (MLRA 151)					
☐ Thick Dark Surface (A12)			☐ Iron-Manganese Masses (F12) (LRR O, P, T)					
☐ Coast Prairie Redox (A16) (MLRA 150A)			☐ Umbric Surface (F13) (LRR P, T, U)					
☐ Sandy Mucky Mineral (S1) (LRR O, S)			☐ Delta Ochric (F17) (MLRA 151)					
☐ Sandy Gleyed Matrix (S4)			☐ Reduced Vertic (F18) (MLRA 150A, 150B)					
☐ Sandy Redox (S5)			☐ Piedmont Floodplain Soils (F19) (MLRA 149A)					
☐ Stripped Matrix (S6)			☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)					
☐ Dark Surface (S7) (LRR P, S, T, U)								
Restrictive Layer (if observed):						Hydric Soil Present? Yes No X		
Type: _____								
Depth (inches): _____								
Remarks: No positive indication of hydric soils was observed.								

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

DP1

	Absolute % cover	Dominant Species	Indicator Status																													
Tree Stratum (Plot size: 30 ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>9</u> (A) Total Number of Dominant Species Across All Strata: <u>9</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																												
1. <i>Quercus nigra</i>	50	Yes	FAC																													
2. <i>Acer rubrum</i>	25	Yes	FAC																													
3. <i>Magnolia grandiflora</i>	20	No	FAC																													
4. <i>Magnolia virginiana</i>	15	No	FACW																													
5. <i>Ilex vomitoria</i>	10	No	FAC																													
6. <i>Quercus alba</i>	5	No	FACU																													
	125 = Total Cover																															
50% of total cover:	62.5	20% of total cover:	25																													
Sapling Stratum (Plot size: 30 ft.)					Prevalence Index Worksheet: <table style="width: 100%;"> <tr> <th colspan="2">Total % Cover of:</th> <th colspan="2">Multiply by:</th> </tr> <tr> <td>OBL species</td> <td><u>0</u></td> <td>x 1 =</td> <td><u>0</u></td> </tr> <tr> <td>FACW species</td> <td><u>32</u></td> <td>x 2 =</td> <td><u>64</u></td> </tr> <tr> <td>FAC species</td> <td><u>279</u></td> <td>x 3 =</td> <td><u>837</u></td> </tr> <tr> <td>FACU species</td> <td><u>8</u></td> <td>x 4 =</td> <td><u>32</u></td> </tr> <tr> <td>UPL species</td> <td><u>0</u></td> <td>x 5 =</td> <td><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>319</u></td> <td>(A)</td> <td><u>933</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>2.92</u>	Total % Cover of:		Multiply by:		OBL species	<u>0</u>	x 1 =	<u>0</u>	FACW species	<u>32</u>	x 2 =	<u>64</u>	FAC species	<u>279</u>	x 3 =	<u>837</u>	FACU species	<u>8</u>	x 4 =	<u>32</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals:	<u>319</u>	(A)
Total % Cover of:		Multiply by:																														
OBL species	<u>0</u>	x 1 =	<u>0</u>																													
FACW species	<u>32</u>	x 2 =	<u>64</u>																													
FAC species	<u>279</u>	x 3 =	<u>837</u>																													
FACU species	<u>8</u>	x 4 =	<u>32</u>																													
UPL species	<u>0</u>	x 5 =	<u>0</u>																													
Column Totals:	<u>319</u>	(A)	<u>933</u> (B)																													
1. <i>Quercus nigra</i>	35	Yes	FAC																													
2. <i>Magnolia virginiana</i>	15	Yes	FACW																													
3. <i>Ilex vomitoria</i>	10	No	FAC																													
4. _____																																
5. _____																																
6. _____																																
	60 = Total Cover																															
50% of total cover:	30	20% of total cover:	12																													
Shrub Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Indicators: ☐ 1 - Rapid Test for Hydrophytic Vegetation ☒ 2 - Dominance Test is >50% ☒ 3 - Prevalence Index is ≤ 3.0 ¹ _____ Problematic Hydrophytic Vegetation ¹ (Explain)																												
1. <i>Ilex vomitoria</i>	60	Yes	FAC																													
2. <i>Quercus nigra</i>	10	No	FAC																													
3. _____																																
4. _____																																
5. _____																																
6. _____																																
	70 = Total Cover																															
50% of total cover:	35	20% of total cover:	14																													
Herb Stratum (Plot size: 30 ft.)					Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height.																											
1. <i>Ilex vomitoria</i>	25	Yes	FAC																													
2. <i>Chasmanthium sessiliflorum</i>	10	Yes	FAC																													
3. <i>Callicarpa americana</i>	3	No	FACU																													
4. <i>Quercus nigra</i>	2	No	FAC																													
5. <i>Dichanthelium scoparium</i>	2	No	FACW																													
6. _____																																
7. _____																																
8. _____																																
9. _____																																
10. _____																																
11. _____																																
	42 = Total Cover																															
50% of total cover:	21	20% of total cover:	8.4																													
Woody Vine Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____																												
1. <i>Vitis rotundifolia</i>	15	Yes	FAC																													
2. <i>Smilax bona-nox</i>	5	Yes	FAC																													
3. <i>Ampelopsis arborea</i>	2	No	FAC																													
4. _____																																
5. _____																																
	22 = Total Cover																															
50% of total cover:	11	20% of total cover:	4.4																													
Remarks: (if observed, list morphological adaptations below). A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).																																

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: _____ Site 1 _____ County: _____ Hancock _____ Sampling Date: _____ June 2, 2022 _____

Applicant/Owner: _____ Hancock County Port & Harbor Commission _____ State: _____ Mississippi _____ Sample Point: _____ DP2 _____

Investigator(s): _____ Beth Beals _____ and _____ Savannah R. Morales _____ Section, Township, Range: _____ Section 25, Township 9S, Range 16W _____

Landform (hillslope, terrace, etc.): _____ Drainage _____ Local relief (concave, convex, none): _____ Concave _____ Slope (%): _____ 0-5 _____

Subregion (LRR or MLRA): _____ MLRA 152A, LRR T _____ Lat: _____ 30.22593 _____ Long: _____ -89.54582 _____ Datum: _____ WGS84 _____

Soil Map Unit Name: _____ Harleston fine sandy loam, 0-2% slopes _____ NWI Classification: _____ None _____

Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) _____ Yes _____ (if no, explain in Remarks.) _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ X _____ No _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ naturally problematic? (If needed, explain any answers in Remarks.) _____

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u>	No _____	
Wetland Hydrology Present?	Yes <u>X</u>	No _____	
Remarks: This point was determined to be within a wetland due to the presence of all three wetland criteria.			

HYDROLOGY

Wetland hydrology indicators: Primary Indicators (minimum of one is required; check all that apply)				Secondary Indicators (minimum of two required)			
☐ Surface Water (A1)	☐ Aquatic Fauna (B13)	☒ Surface Soil Cracks (B6)					
☐ High Water Table (A2)	☐ Marl Deposits (B15) (LRR U)	☒ Sparsely Vegetated Concave Surface (B8)					
☐ Saturation (A3)	☐ Hydrogen Sulfide Odor (C1)	☒ Drainage Patterns (B10)					
☐ Water Marks (B1)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Moss Trim Lines (B16)					
☐ Sediment Deposits (B2)	☐ Presence of Reduced Iron (C4)	☐ Dry-Season Water Table (C2)					
☒ Drift Deposits (B3)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Crayfish Burrows (C8)					
☐ Algal Mat or Crust (B4)	☐ Thin Muck Surface (C7)	☒ Saturation Visible on Aerial Imagery (C9)					
☐ Iron Deposits (B5)	☐ Other (Explain in Remarks)	☒ Geomorphic Position (D2)					
☐ Inundation Visible on Aerial Imagery (B7)		☒ Shallow Aquitard (D3)					
☐ Water-Stained Leaves (B9)		☒ FAC-Neutral Test (D5)					
		☒ Sphagnum moss (D8) (LRR T, U)					
Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): <u>N/A</u> Water Table Present? Yes _____ No <u>X</u> Depth (inches): <u>N/A</u> Saturation Present? Yes _____ No <u>X</u> Depth (inches): <u>N/A</u>							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks: A positive indication of wetland hydrology was observed (at least one primary indicator).							

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
1-4	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Sand	
	10YR 7/2	50						
4-16	10YR 4/2	50					Sand	
	10YR 6/1	45	10YR 5/6	5	C	PL		
	10YR 5/2	30						
	10YR 4/2	20						
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix.								
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)						Indicators for Problematic Hydric Soils³:		
☐ Histosol (A1)					☐ Polyvalue Below Surface (S8) (LRR S, T, U)	☐ 1 cm Muck (A9) (LRR O)		
☐ Histic Epipedon (A2)					☐ Thin Dark Surface (S9) (LRR S, T, U)	☐ 2 cm Muck (A10) (LRR S)		
☐ Black Histic (A3)					☐ Loamy Mucky Mineral (F1) (LRR O)	☐ Reduced Vertic (F18) (outside MLRA 150A,B)		
☐ Hydrogen Sulfide (A4)					☐ Loamy Gleyed Matrix (F2)	☐ Piedmont Floodplain Soils (F19) (LRR P, S, T)		
☐ Stratified Layers (A5)					☐ Depleted Matrix (F3)	☐ Anomalous Bright Loamy Soils (F20)		
☐ Organic Bodies (A6) (LRR P, T, U)					☐ Redox Dark Surface (F6)	☐ (MLRA 153B)		
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)					☐ Depleted Dark Surface (F7)	☐ Red Parent Material (TF2)		
☐ Muck Presence (A8) (LRR U)					☐ Redox Depressions (F8)	☐ Very Shallow Dark Surface (TF12)		
☐ 1 cm Muck (A9) (LRR P, T)					☐ Marl (F10) (LRR U)	☐ Other (Explain in Remarks)		
☐ Depleted Below Dark Surface (A11)					☐ Depleted Ochric (F11) (MLRA 151)			
☐ Thick Dark Surface (A12)					☐ Iron-Manganese Masses (F12) (LRR O, P, T)			
☐ Coast Prairie Redox (A16) (MLRA 150A)					☐ Umbric Surface (F13) (LRR P, T, U)			
☐ Sandy Mucky Mineral (S1) (LRR O, S)					☐ Delta Ochric (F17) (MLRA 151)			
☐ Sandy Gleyed Matrix (S4)					☐ Reduced Vertic (F18) (MLRA 150A, 150B)			
☐ Sandy Redox (S5)					☐ Piedmont Floodplain Soils (F19) (MLRA 149A)			
☒ Stripped Matrix (S6)					☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)			
☐ Dark Surface (S7) (LRR P, S, T, U)								
Restrictive Layer (if observed): Type: _____ Depth (inches): _____						Hydric Soil Present? Yes <u>X</u> No _____		
Remarks: A positive indication of hydric soil was observed.								

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

DP2

	Absolute % cover	Dominant Species	Indicator Status																													
Tree Stratum (Plot size: <u>30</u> ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>8</u> (A) Total Number of Dominant Species Across All Strata: <u>8</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																												
1. <i>Cyrilla racemiflora</i>	80	Yes	FACW																													
2. <i>Magnolia virginiana</i>	20	Yes	FACW																													
3. _____																																
4. _____																																
5. _____																																
6. _____																																
	100	= Total Cover																														
50% of total cover:	50	20% of total cover: <u>20</u>																														
Sapling Stratum (Plot size: <u>30</u> ft.)					Prevalence Index Worksheet: <table style="width: 100%;"> <tr> <th colspan="2">Total % Cover of:</th> <th colspan="2">Multiply by:</th> </tr> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td>x 1 =</td> <td style="text-align: center;"><u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>125</u></td> <td>x 2 =</td> <td style="text-align: center;"><u>250</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>13</u></td> <td>x 3 =</td> <td style="text-align: center;"><u>39</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>0</u></td> <td>x 4 =</td> <td style="text-align: center;"><u>0</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td>x 5 =</td> <td style="text-align: center;"><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;"><u>138</u></td> <td>(A)</td> <td style="text-align: center;"><u>289</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>2.09</u>	Total % Cover of:		Multiply by:		OBL species	<u>0</u>	x 1 =	<u>0</u>	FACW species	<u>125</u>	x 2 =	<u>250</u>	FAC species	<u>13</u>	x 3 =	<u>39</u>	FACU species	<u>0</u>	x 4 =	<u>0</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals:	<u>138</u>	(A)
Total % Cover of:		Multiply by:																														
OBL species	<u>0</u>	x 1 =	<u>0</u>																													
FACW species	<u>125</u>	x 2 =	<u>250</u>																													
FAC species	<u>13</u>	x 3 =	<u>39</u>																													
FACU species	<u>0</u>	x 4 =	<u>0</u>																													
UPL species	<u>0</u>	x 5 =	<u>0</u>																													
Column Totals:	<u>138</u>	(A)	<u>289</u> (B)																													
1. <i>Morella cerifera</i>	10	Yes	FAC																													
2. <i>Cyrilla racemiflora</i>	10	Yes	FACW																													
3. _____																																
4. _____																																
5. _____																																
6. _____																																
	20	= Total Cover																														
50% of total cover:	10	20% of total cover: <u>4</u>																														
Shrub Stratum (Plot size: <u>30</u> ft.)				Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> X </u> 2 - Dominance Test is >50% <u> X </u> 3 - Prevalence Index is ≤ 3.0 ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)																												
1. <i>None Observed</i>																																
2. _____																																
3. _____																																
4. _____																																
5. _____																																
6. _____																																
		= Total Cover																														
50% of total cover:		20% of total cover: _____																														
Herb Stratum (Plot size: <u>30</u> ft.)					Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height.																											
1. <i>Dichanthelium scoparium</i>	5	Yes	FACW																													
2. <i>Centella erecta</i>	5	Yes	FACW																													
3. <i>Acer rubrum</i>	3	Yes	FAC																													
4. _____																																
5. _____																																
6. _____																																
7. _____																																
8. _____																																
9. _____																																
10. _____																																
11. _____																																
	13	= Total Cover																														
50% of total cover:	6.5	20% of total cover: <u>2.6</u>																														
Woody Vine Stratum (Plot size: <u>30</u> ft.)				Hydrophytic Vegetation Present? Yes <u> X </u> No <u> </u>																												
1. <i>Smilax laurifolia</i>	5	Yes	FACW																													
2. _____																																
3. _____																																
4. _____																																
5. _____																																
	5	= Total Cover																														
50% of total cover:	2.5	20% of total cover: <u>1</u>																														
Remarks: (if observed, list morphological adaptations below). A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).																																

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: _____ Site 1 _____ County: _____ Hancock _____ Sampling Date: _____ June 2, 2022 _____

Applicant/Owner: _____ Hancock County Port & Harbor Commission _____ State: _____ Mississippi _____ Sample Point: _____ DP3 _____

Investigator(s): _____ Beth Beals _____ and _____ Savannah R. Morales _____ Section, Township, Range: _____ Section 25, Township 9S, Range 16W _____

Landform (hillslope, terrace, etc.): _____ Ridge _____ Local relief (concave, convex, none): _____ Convex _____ Slope (%): _____ 0-5 _____

Subregion (LRR or MLRA): _____ MLRA 152A, LRR T _____ Lat: _____ 30.22648 _____ Long: _____ -89.54565 _____ Datum: _____ WGS84 _____

Soil Map Unit Name: _____ Harleston fine sandy loam, 0-2% slopes _____ NWI Classification: _____ None _____

Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) _____ Yes _____ (if no, explain in Remarks.) _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ X _____ No _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ naturally problematic? (If needed, explain any answers in Remarks.) _____

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>	
Wetland Hydrology Present?	Yes _____	No <u>X</u>	
Remarks: This point was determined not to be within a wetland due to the lack of hydric soils and wetland hydrology.			

HYDROLOGY

Wetland hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)				Secondary Indicators (minimum of two required)			
☐ Surface Water (A1) ☐ High Water Table (A2) ☐ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B2) ☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial Imagery (B7) ☐ Water-Stained Leaves (B9)	☐ Aquatic Fauna (B13) ☐ Marl Deposits (B15) (LRR U) ☐ Hydrogen Sulfide Odor (C1) ☐ Oxidized Rhizospheres on Living Roots (C3) ☐ Presence of Reduced Iron (C4) ☐ Recent Iron Reduction in Tilled Soils (C6) ☐ Thin Muck Surface (C7) ☐ Other (Explain in Remarks)	☐ Surface Soil Cracks (B6) ☐ Sparsely Vegetated Concave Surface (B8) ☐ Drainage Patterns (B10) ☐ Moss Trim Lines (B16) ☐ Dry-Season Water Table (C2) ☐ Crayfish Burrows (C8) ☐ Saturation Visible on Aerial Imagery (C9) ☐ Geomorphic Position (D2) ☐ Shallow Aquitard (D3) ☐ FAC-Neutral Test (D5) ☐ Sphagnum moss (D8) (LRR T, U)					
Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): <u>N/A</u> Water Table Present? Yes _____ No <u>X</u> Depth (inches): <u>N/A</u> Saturation Present? Yes _____ No <u>X</u> Depth (inches): <u>N/A</u>				Wetland Hydrology Present? Yes _____ No <u>X</u>			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks: No positive indication of wetland hydrology was observed.							

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)																
Depth (inches)	Matrix		Redox Features				Texture	Remarks								
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²										
0-2	7.5YR 2.5/2	100					Sandy Loam	High organic content								
2-6	10YR 4/1	90					Sandy Loam									
	10YR 4/3	10														
6-16	2.5YR 6/6	95					Sandy Loam									
	2.5YR 6/4	5														
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.																
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)							Indicators for Problematic Hydric Soils³:									
☐ Histosol (A1) ☐ Histic Epipedon (A2) ☐ Black Histic (A3) ☐ Hydrogen Sulfide (A4) ☐ Stratified Layers (A5) ☐ Organic Bodies (A6) (LRR P, T, U) ☐ 5 cm Mucky Mineral (A7) (LRR P, T, U) ☐ Muck Presence (A8) (LRR U) ☐ 1 cm Muck (A9) (LRR P, T) ☐ Depleted Below Dark Surface (A11) ☐ Thick Dark Surface (A12) ☐ Coast Prairie Redox (A16) (MLRA 150A) ☐ Sandy Mucky Mineral (S1) (LRR O, S) ☐ Sandy Gleyed Matrix (S4) ☐ Sandy Redox (S5) ☐ Stripped Matrix (S6) ☐ Dark Surface (S7) (LRR P, S, T, U)							☐ Polyvalue Below Surface (S8) (LRR S, T, U) ☐ Thin Dark Surface (S9) (LRR S, T, U) ☐ Loamy Mucky Mineral (F1) (LRR O) ☐ Loamy Gleyed Matrix (F2) ☐ Depleted Matrix (F3) ☐ Redox Dark Surface (F6) ☐ Depleted Dark Surface (F7) ☐ Redox Depressions (F8) ☐ Marl (F10) (LRR U) ☐ Depleted Ochric (F11) (MLRA 151) ☐ Iron-Manganese Masses (F12) (LRR O, P, T) ☐ Umbric Surface (F13) (LRR P, T, U) ☐ Delta Ochric (F17) (MLRA 151) ☐ Reduced Vertic (F18) (MLRA 150A, 150B) ☐ Piedmont Floodplain Soils (F19) (MLRA 149A) ☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)							☐ 1 cm Muck (A9) (LRR O) ☐ 2 cm Muck (A10) (LRR S) ☐ Reduced Vertic (F18) (outside MLRA 150A,B) ☐ Piedmont Floodplain Soils (F19) (LRR P, S, T) ☐ Anomalous Bright Loamy Soils (F20) ☐ (MLRA 153B) ☐ Red Parent Material (TF2) ☐ Very Shallow Dark Surface (TF12) ☐ Other (Explain in Remarks)		
³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.																
Restrictive Layer (if observed): Type: _____ Depth (inches): _____							Hydric Soil Present? Yes _____ No <u>X</u>									
Remarks: No positive indication of hydric soils was observed.																

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

DP3

	Absolute % cover	Dominant Species	Indicator Status																													
Tree Stratum (Plot size: <u>30</u> ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>9</u> (A) Total Number of Dominant Species Across All Strata: <u>10</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>90%</u> (A/B)																												
1. <i>Pinus elliotii</i>	25	Yes	FACW																													
2. <i>Quercus stellata</i>	20	Yes	UPL																													
3. <i>Nyssa sylvatica</i>	10	No	FAC																													
4. <i>Quercus nigra</i>	5	No	FAC																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	60 = Total Cover																															
50% of total cover:	30	20% of total cover:	12																													
Sapling Stratum (Plot size: <u>30</u> ft.)					Prevalence Index Worksheet: <table style="width: 100%;"> <tr> <th colspan="2">Total % Cover of:</th> <th colspan="2">Multiply by:</th> </tr> <tr> <td>OBL species</td> <td><u>0</u></td> <td>x 1 =</td> <td><u>0</u></td> </tr> <tr> <td>FACW species</td> <td><u>30</u></td> <td>x 2 =</td> <td><u>60</u></td> </tr> <tr> <td>FAC species</td> <td><u>53</u></td> <td>x 3 =</td> <td><u>159</u></td> </tr> <tr> <td>FACU species</td> <td><u>0</u></td> <td>x 4 =</td> <td><u>0</u></td> </tr> <tr> <td>UPL species</td> <td><u>20</u></td> <td>x 5 =</td> <td><u>100</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>103</u></td> <td>(A)</td> <td><u>319</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>3.10</u>	Total % Cover of:		Multiply by:		OBL species	<u>0</u>	x 1 =	<u>0</u>	FACW species	<u>30</u>	x 2 =	<u>60</u>	FAC species	<u>53</u>	x 3 =	<u>159</u>	FACU species	<u>0</u>	x 4 =	<u>0</u>	UPL species	<u>20</u>	x 5 =	<u>100</u>	Column Totals:	<u>103</u>	(A)
Total % Cover of:		Multiply by:																														
OBL species	<u>0</u>	x 1 =	<u>0</u>																													
FACW species	<u>30</u>	x 2 =	<u>60</u>																													
FAC species	<u>53</u>	x 3 =	<u>159</u>																													
FACU species	<u>0</u>	x 4 =	<u>0</u>																													
UPL species	<u>20</u>	x 5 =	<u>100</u>																													
Column Totals:	<u>103</u>	(A)	<u>319</u> (B)																													
1. <i>Ilex vomitoria</i>	10	Yes	FAC																													
2. <i>Morella cerifera</i>	5	Yes	FAC																													
3. <i>Pinus elliotii</i>	5	Yes	FACW																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	20 = Total Cover																															
50% of total cover:	10	20% of total cover:	4																													
Shrub Stratum (Plot size: <u>30</u> ft.)				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤ 3.0 ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)																												
1. <i>Ilex vomitoria</i>	5	Yes	FAC																													
2. <i>Morella cerifera</i>	3	Yes	FAC																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	8 = Total Cover																															
50% of total cover:	4	20% of total cover:	1.6																													
Herb Stratum (Plot size: <u>30</u> ft.)					Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height.																											
1. <i>Ilex vomitoria</i>	5	Yes	FAC																													
2. _____	_____	_____	_____																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
7. _____	_____	_____	_____																													
8. _____	_____	_____	_____																													
9. _____	_____	_____	_____																													
10. _____	_____	_____	_____																													
11. _____	_____	_____	_____																													
	5 = Total Cover																															
50% of total cover:	2.5	20% of total cover:	1																													
Woody Vine Stratum (Plot size: <u>30</u> ft.)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____																												
1. <i>Toxicodendron radicans</i>	5	Yes	FAC																													
2. <i>Vitis rotundifolia</i>	5	Yes	FAC																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
	10 = Total Cover																															
50% of total cover:	5	20% of total cover:	2																													
Remarks: (if observed, list morphological adaptations below). A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).																																

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: _____ Site 1 _____ County: _____ Hancock _____ Sampling Date: _____ June 7, 2022 _____

Applicant/Owner: _____ Hancock County Port & Harbor Commission _____ State: _____ Mississippi _____ Sample Point: _____ DP4 _____

Investigator(s): _____ Beth Beals _____ and _____ Savannah R. Morales _____ Section, Township, Range: _____ Section 30, Township 9S, Range 15W _____

Landform (hillslope, terrace, etc.): _____ Depression _____ Local relief (concave, convex, none): _____ Concave _____ Slope (%): _____ 0-5 _____

Subregion (LRR or MLRA): _____ MLRA 152A, LRR T _____ Lat: _____ 30.22783 _____ Long: _____ -89.54291 _____ Datum: _____ WGS84 _____

Soil Map Unit Name: _____ Smithon fine sandy loam, FF _____ NWI Classification: _____ None _____

Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) _____ Yes _____ (if no, explain in Remarks.) _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ X _____ No _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ naturally problematic? (If needed, explain any answers in Remarks.) _____

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No _____
Hydric Soil Present?	Yes <u>X</u>	No _____			
Wetland Hydrology Present?	Yes <u>X</u>	No _____			
Remarks: This point was determined to be within a wetland due to the presence of all three wetland criteria.					

HYDROLOGY

Wetland hydrology indicators:				Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is required; check all that apply)					
<u>X</u> Surface Water (A1)	_____ Aquatic Fauna (B13)	_____ Surface Soil Cracks (B6)			
<u>X</u> High Water Table (A2)	_____ Marl Deposits (B15) (LRR U)	<u>X</u> Sparsely Vegetated Concave Surface (B8)			
<u>X</u> Saturation (A3)	<u>X</u> Hydrogen Sulfide Odor (C1)	_____ Drainage Patterns (B10)			
_____ Water Marks (B1)	_____ Oxidized Rhizospheres on Living Roots (C3)	_____ Moss Trim Lines (B16)			
_____ Sediment Deposits (B2)	_____ Presence of Reduced Iron (C4)	_____ Dry-Season Water Table (C2)			
_____ Drift Deposits (B3)	_____ Recent Iron Reduction in Tilled Soils (C6)	_____ Crayfish Burrows (C8)			
_____ Algal Mat or Crust (B4)	<u>X</u> Thin Muck Surface (C7)	_____ Saturation Visible on Aerial Imagery (C9)			
_____ Iron Deposits (B5)	_____ Other (Explain in Remarks)	_____ Geomorphic Position (D2)			
_____ Inundation Visible on Aerial Imagery (B7)		<u>X</u> Shallow Aquitard (D3)			
<u>X</u> Water-Stained Leaves (B9)		<u>X</u> FAC-Neutral Test (D5)			
		<u>X</u> Sphagnum moss (D8) (LRR T, U)			
Field Observations:				Wetland Hydrology Present?	
Surface Water Present?	Yes <u>X</u>	No _____	Depth (inches):	<u>1</u>	Yes <u>X</u>
Water Table Present?	Yes <u>X</u>	No _____	Depth (inches):	<u>5</u>	No _____
Saturation Present?	Yes <u>X</u>	No _____	Depth (inches):	<u>0-16</u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks: A positive indication of wetland hydrology was observed (at least one primary indicator).					

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth (inches)	Matrix		Redox Features			Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	
0-16	10YR 2/2	60	10YR 6/2	40	D	M	Sandy Loam
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.							
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)						Indicators for Problematic Hydric Soils³:	
_____ Histosol (A1)						_____ 1 cm Muck (A9) (LRR O)	
_____ Histic Epipedon (A2)						_____ 2 cm Muck (A10) (LRR S)	
_____ Black Histic (A3)						_____ Reduced Vertic (F18) (outside MLRA 150A,B)	
_____ Hydrogen Sulfide (A4)						_____ Piedmont Floodplain Soils (F19) (LRR P, S, T)	
_____ Stratified Layers (A5)						_____ Anomalous Bright Loamy Soils (F20)	
_____ Organic Bodies (A6) (LRR P, T, U)						_____ (MLRA 153B)	
_____ 5 cm Mucky Mineral (A7) (LRR P, T, U)						_____ Red Parent Material (TF2)	
_____ Muck Presence (A8) (LRR U)						_____ Very Shallow Dark Surface (TF12)	
_____ 1 cm Muck (A9) (LRR P, T)						_____ Other (Explain in Remarks)	
_____ Depleted Below Dark Surface (A11)							
_____ Thick Dark Surface (A12)							
_____ Coast Prairie Redox (A16) (MLRA 150A)							
_____ Sandy Mucky Mineral (S1) (LRR O, S)							
_____ Sandy Gleyed Matrix (S4)							
_____ Sandy Redox (S5)							
<u>X</u> Stripped Matrix (S6)							
_____ Dark Surface (S7) (LRR P, S, T, U)							
_____ Polyvalue Below Surface (S8) (LRR S, T, U)							
_____ Thin Dark Surface (S9) (LRR S, T, U)							
_____ Loamy Mucky Mineral (F1) (LRR O)							
_____ Loamy Gleyed Matrix (F2)							
_____ Depleted Matrix (F3)							
_____ Redox Dark Surface (F6)							
_____ Depleted Dark Surface (F7)							
_____ Redox Depressions (F8)							
_____ Marl (F10) (LRR U)							
_____ Depleted Ochric (F11) (MLRA 151)							
_____ Iron-Manganese Masses (F12) (LRR O, P, T)							
_____ Umbric Surface (F13) (LRR P, T, U)							
_____ Delta Ochric (F17) (MLRA 151)							
_____ Reduced Vertic (F18) (MLRA 150A, 150B)							
_____ Piedmont Floodplain Soils (F19) (MLRA 149A)							
_____ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)							
Restrictive Layer (if observed):						Hydric Soil Present?	
Type: _____						Yes <u>X</u>	
Depth (inches): _____						No _____	
Remarks: A positive indication of hydric soil was observed.							

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

DP4

	Absolute % cover	Dominant Species	Indicator Status																													
Tree Stratum (Plot size: <u>30</u> ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>8</u> (A) Total Number of Dominant Species Across All Strata: <u>8</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																												
1. <i>Magnolia virginiana</i>	40	Yes	FACW																													
2. <i>Pinus elliotii</i>	25	Yes	FACW																													
3. <i>Morella cerifera</i>	15	No	FAC																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	80 = Total Cover																															
50% of total cover:	40	20% of total cover:	16																													
Sapling Stratum (Plot size: <u>30</u> ft.)					Prevalence Index Worksheet: <table style="width: 100%;"> <tr> <td colspan="2">Total % Cover of:</td> <td colspan="2">Multiply by:</td> </tr> <tr> <td>OBL species</td> <td><u>54</u></td> <td>x 1 =</td> <td><u>54</u></td> </tr> <tr> <td>FACW species</td> <td><u>115</u></td> <td>x 2 =</td> <td><u>230</u></td> </tr> <tr> <td>FAC species</td> <td><u>15</u></td> <td>x 3 =</td> <td><u>45</u></td> </tr> <tr> <td>FACU species</td> <td><u>0</u></td> <td>x 4 =</td> <td><u>0</u></td> </tr> <tr> <td>UPL species</td> <td><u>0</u></td> <td>x 5 =</td> <td><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>184</u></td> <td>(A)</td> <td><u>329</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>1.79</u>	Total % Cover of:		Multiply by:		OBL species	<u>54</u>	x 1 =	<u>54</u>	FACW species	<u>115</u>	x 2 =	<u>230</u>	FAC species	<u>15</u>	x 3 =	<u>45</u>	FACU species	<u>0</u>	x 4 =	<u>0</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals:	<u>184</u>	(A)
Total % Cover of:		Multiply by:																														
OBL species	<u>54</u>	x 1 =	<u>54</u>																													
FACW species	<u>115</u>	x 2 =	<u>230</u>																													
FAC species	<u>15</u>	x 3 =	<u>45</u>																													
FACU species	<u>0</u>	x 4 =	<u>0</u>																													
UPL species	<u>0</u>	x 5 =	<u>0</u>																													
Column Totals:	<u>184</u>	(A)	<u>329</u> (B)																													
1. <i>Rhododendron viscosum</i>	15	Yes	OBL																													
2. <i>Illicium floridanum</i>	10	Yes	FACW																													
3. <i>Magnolia virginiana</i>	5	No	FACW																													
4. <i>Pinus elliotii</i>	2	No	FACW																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	32 = Total Cover																															
50% of total cover:	16	20% of total cover:	6.4																													
Shrub Stratum (Plot size: <u>30</u> ft.)				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>X</u> <u>3</u> - Prevalence Index is ≤ 3.0 ¹ _____ Problematic Hydrophytic Vegetation ¹ (Explain)																												
1. <i>Rhododendron viscosum</i>	25	Yes	OBL																													
2. _____	_____	_____	_____																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	25 = Total Cover																															
50% of total cover:	12.5	20% of total cover:	5																													
Herb Stratum (Plot size: <u>30</u> ft.)					Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height.																											
1. <i>Carex cherokeensis</i>	10	Yes	FACW																													
2. <i>Proserpinaca palustris</i>	10	Yes	OBL																													
3. <i>Magnolia virginiana</i>	5	No	FACW																													
4. <i>Eleocharis lanceolata</i>	5	No	FACW																													
5. <i>Osmundastrum cinnamomeum</i>	3	No	FACW																													
6. <i>Hydrocotyle umbellata</i>	2	No	OBL																													
7. <i>Saururus cernuus</i>	2	No	OBL																													
8. _____	_____	_____	_____																													
9. _____	_____	_____	_____																													
10. _____	_____	_____	_____																													
11. _____	_____	_____	_____																													
	37 = Total Cover																															
50% of total cover:	18.5	20% of total cover:	7.4																													
Woody Vine Stratum (Plot size: <u>30</u> ft.)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____																												
1. <i>Smilax laurifolia</i>	10	Yes	FACW																													
2. _____	_____	_____	_____																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
	10 = Total Cover																															
50% of total cover:	5	20% of total cover:	2																													

Remarks: (if observed, list morphological adaptations below).

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: _____ Site 1 _____ County: _____ Hancock _____ Sampling Date: _____ June 7, 2022 _____

Applicant/Owner: _____ Hancock County Port & Harbor Commission _____ State: _____ Mississippi _____ Sample Point: _____ DP5 _____

Investigator(s): _____ Beth Beals _____ and _____ Savannah R. Morales _____ Section, Township, Range: _____ Section 30, Township 9S, Range 15W _____

Landform (hillslope, terrace, etc.): _____ Plain _____ Local relief (concave, convex, none): _____ None _____ Slope (%): _____ 0-5 _____

Subregion (LRR or MLRA): _____ MLRA 152A, LRR T _____ Lat: _____ 30.22951 _____ Long: _____ -89.54343 _____ Datum: _____ WGS84 _____

Soil Map Unit Name: _____ Harleston fine sandy loam, 0-2% slopes _____ NWI Classification: _____ None _____

Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) _____ Yes _____ (if no, explain in Remarks.) _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ X _____ No _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ naturally problematic? (If needed, explain any answers in Remarks.) _____

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>			
Wetland Hydrology Present?	Yes _____	No <u>X</u>			
Remarks: This point was determined not to be within a wetland due to the lack of hydric soils and wetland hydrology.					

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)			
☐ High Water Table (A2)	☐ Marl Deposits (B15) (LRR U)	☐ Sparsely Vegetated Concave Surface (B8)			
☐ Saturation (A3)	☐ Hydrogen Sulfide Odor (C1)	☐ Drainage Patterns (B10)			
☐ Water Marks (B1)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Moss Trim Lines (B16)			
☐ Sediment Deposits (B2)	☐ Presence of Reduced Iron (C4)	☐ Dry-Season Water Table (C2)			
☐ Drift Deposits (B3)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Crayfish Burrows (C8)			
☐ Algal Mat or Crust (B4)	☐ Thin Muck Surface (C7)	☐ Saturation Visible on Aerial Imagery (C9)			
☐ Iron Deposits (B5)	☐ Other (Explain in Remarks)	☐ Geomorphic Position (D2)			
☐ Inundation Visible on Aerial Imagery (B7)		☐ Shallow Aquitard (D3)			
☐ Water-Stained Leaves (B9)		☐ FAC-Neutral Test (D5)			
		☐ Sphagnum moss (D8) (LRR T, U)			
Field Observations:				Wetland Hydrology Present?	
Surface Water Present?	Yes _____ No <u>X</u>	Depth (inches):	<u>N/A</u>	Yes _____	No <u>X</u>
Water Table Present?	Yes _____ No <u>X</u>	Depth (inches):	<u>N/A</u>		
Saturation Present?	Yes _____ No <u>X</u>	Depth (inches):	<u>N/A</u>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks: No positive indication of wetland hydrology was observed.					

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-8	10YR 3/1	100					Sandy loam	
8-16	2.5Y 6/4	95					Silt Loam	
	2.5Y 3/1	5						
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.								
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)						Indicators for Problematic Hydric Soils³:		
☐ Histosol (A1)	☐ Polyvalue Below Surface (S8) (LRR S, T, U)				☐ 1 cm Muck (A9) (LRR O)			
☐ Histic Epipedon (A2)	☐ Thin Dark Surface (S9) (LRR S, T, U)				☐ 2 cm Muck (A10) (LRR S)			
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (LRR O)				☐ Reduced Vertic (F18) (outside MLRA 150A,B)			
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)				☐ Piedmont Floodplain Soils (F19) (LRR P, S, T)			
☐ Stratified Layers (A5)	☐ Depleted Matrix (F3)				☐ Anomalous Bright Loamy Soils (F20)			
☐ Organic Bodies (A6) (LRR P, T, U)	☐ Redox Dark Surface (F6)				☐ (MLRA 153B)			
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)	☐ Depleted Dark Surface (F7)				☐ Red Parent Material (TF2)			
☐ Muck Presence (A8) (LRR U)	☐ Redox Depressions (F8)				☐ Very Shallow Dark Surface (TF12)			
☐ 1 cm Muck (A9) (LRR P, T)	☐ Marl (F10) (LRR U)				☐ Other (Explain in Remarks)			
☐ Depleted Below Dark Surface (A11)	☐ Depleted Ochric (F11) (MLRA 151)							
☐ Thick Dark Surface (A12)	☐ Iron-Manganese Masses (F12) (LRR O, P, T)							
☐ Coast Prairie Redox (A16) (MLRA 150A)	☐ Umbric Surface (F13) (LRR P, T, U)							
☐ Sandy Mucky Mineral (S1) (LRR O, S)	☐ Delta Ochric (F17) (MLRA 151)							
☐ Sandy Gleyed Matrix (S4)	☐ Reduced Vertic (F18) (MLRA 150A, 150B)							
☐ Sandy Redox (S5)	☐ Piedmont Floodplain Soils (F19) (MLRA 149A)							
☐ Stripped Matrix (S6)	☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)							
☐ Dark Surface (S7) (LRR P, S, T, U)								
Restrictive Layer (if observed):								
Type: _____								
Depth (inches): _____								
Remarks: No positive indication of hydric soils was observed.						Hydric Soil Present? Yes _____ No <u>X</u>		

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

DP5

	Absolute % cover	Dominant Species	Indicator Status																													
Tree Stratum (Plot size: 30 ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>11</u> (A) Total Number of Dominant Species Across All Strata: <u>11</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																												
1. <i>Magnolia grandiflora</i>	40	Yes	FAC																													
2. <i>Magnolia virginiana</i>	10	No	FACW																													
3. <i>Quercus nigra</i>	5	No	FAC																													
4. <i>Nyssa sylvatica</i>	5	No	FAC																													
5. <i>Quercus stellata</i>	5	No	UPL																													
6. _____																																
	65 = Total Cover																															
50% of total cover: 32.5		20% of total cover: 13																														
Sapling Stratum (Plot size: 30 ft.)					Prevalence Index Worksheet: <table style="width: 100%;"> <tr> <th colspan="2">Total % Cover of:</th> <th colspan="2">Multiply by:</th> </tr> <tr> <td>OBL species</td> <td><u>0</u></td> <td>x 1 =</td> <td><u>0</u></td> </tr> <tr> <td>FACW species</td> <td><u>10</u></td> <td>x 2 =</td> <td><u>20</u></td> </tr> <tr> <td>FAC species</td> <td><u>95</u></td> <td>x 3 =</td> <td><u>285</u></td> </tr> <tr> <td>FACU species</td> <td><u>0</u></td> <td>x 4 =</td> <td><u>0</u></td> </tr> <tr> <td>UPL species</td> <td><u>5</u></td> <td>x 5 =</td> <td><u>25</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>110</u></td> <td>(A)</td> <td><u>330</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>3.00</u>	Total % Cover of:		Multiply by:		OBL species	<u>0</u>	x 1 =	<u>0</u>	FACW species	<u>10</u>	x 2 =	<u>20</u>	FAC species	<u>95</u>	x 3 =	<u>285</u>	FACU species	<u>0</u>	x 4 =	<u>0</u>	UPL species	<u>5</u>	x 5 =	<u>25</u>	Column Totals:	<u>110</u>	(A)
Total % Cover of:		Multiply by:																														
OBL species	<u>0</u>	x 1 =	<u>0</u>																													
FACW species	<u>10</u>	x 2 =	<u>20</u>																													
FAC species	<u>95</u>	x 3 =	<u>285</u>																													
FACU species	<u>0</u>	x 4 =	<u>0</u>																													
UPL species	<u>5</u>	x 5 =	<u>25</u>																													
Column Totals:	<u>110</u>	(A)	<u>330</u> (B)																													
1. <i>Morella cerifera</i>	10	Yes	FAC																													
2. <i>Acer rubrum</i>	5	Yes	FAC																													
3. <i>Ilex vomitoria</i>	5	Yes	FAC																													
4. _____																																
5. _____																																
6. _____																																
	20 = Total Cover																															
50% of total cover: 10		20% of total cover: 4																														
Shrub Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Indicators: _____ 1 - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u>X</u> 3 - Prevalence Index is ≤ 3.0 ¹ _____ Problematic Hydrophytic Vegetation ¹ (Explain)																												
1. <i>Triadica sebifera</i>	3	Yes	FAC																													
2. _____																																
3. _____																																
4. _____																																
5. _____																																
6. _____																																
	3 = Total Cover																															
50% of total cover: 1.5		20% of total cover: 0.6																														
Herb Stratum (Plot size: 30 ft.)					Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height.																											
1. <i>Morella cerifera</i>	5	Yes	FAC																													
2. <i>Toxicodendron radicans</i>	3	Yes	FAC																													
3. <i>Ilex opaca</i>	3	Yes	FAC																													
4. <i>Vitis rotundifolia</i>	3	Yes	FAC																													
5. <i>Ilex vomitoria</i>	3	Yes	FAC																													
6. _____																																
7. _____																																
8. _____																																
9. _____																																
10. _____																																
11. _____																																
	17 = Total Cover																															
50% of total cover: 8.5		20% of total cover: 3.4																														
Woody Vine Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____																												
1. <i>Vitis rotundifolia</i>	5	Yes	FAC																													
2. _____																																
3. _____																																
4. _____																																
5. _____																																
	5 = Total Cover																															
50% of total cover: 2.5		20% of total cover: 1																														
Remarks: (if observed, list morphological adaptations below). A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).																																

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: _____ Site 1 _____ County: _____ Hancock _____ Sampling Date: _____ June 7, 2022 _____

Applicant/Owner: _____ Hancock County Port & Harbor Commission _____ State: _____ Mississippi _____ Sample Point: _____ DP6 _____

Investigator(s): _____ Beth Beals _____ and _____ Savannah R. Morales _____ Section, Township, Range: _____ Section 30, Township 9S, Range 15W _____

Landform (hillslope, terrace, etc.): _____ Plain _____ Local relief (concave, convex, none): _____ None _____ Slope (%): _____ 0-5 _____

Subregion (LRR or MLRA): _____ MLRA 152A, LRR T _____ Lat: _____ 30.22976 _____ Long: _____ -89.54349 _____ Datum: _____ WGS84 _____

Soil Map Unit Name: _____ Harleston fine sandy loam, 0-2% slopes _____ NWI Classification: _____ None _____

Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) _____ Yes _____ (if no, explain in Remarks.) _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ X _____ No _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ naturally problematic? (If needed, explain any answers in Remarks.) _____

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u>	No _____	
Wetland Hydrology Present?	Yes <u>X</u>	No _____	
Remarks: This point was determined to be within a wetland due to the presence of all three wetland criteria.			

HYDROLOGY

Wetland hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)				Secondary Indicators (minimum of two required)			
☐ Surface Water (A1) ☐ High Water Table (A2) ☒ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B2) ☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial Imagery (B7) ☐ Water-Stained Leaves (B9)	☐ Aquatic Fauna (B13) ☐ Marl Deposits (B15) (LRR U) ☐ Hydrogen Sulfide Odor (C1) ☐ Oxidized Rhizospheres on Living Roots (C3) ☐ Presence of Reduced Iron (C4) ☐ Recent Iron Reduction in Tilled Soils (C6) ☐ Thin Muck Surface (C7) ☐ Other (Explain in Remarks)	☐ Surface Soil Cracks (B6) ☐ Sparsely Vegetated Concave Surface (B8) ☐ Drainage Patterns (B10) ☐ Moss Trim Lines (B16) ☐ Dry-Season Water Table (C2) ☒ Crayfish Burrows (C8) ☐ Saturation Visible on Aerial Imagery (C9) ☐ Geomorphic Position (D2) ☐ Shallow Aquitard (D3) ☒ FAC-Neutral Test (D5) ☐ Sphagnum moss (D8) (LRR T, U)					
Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): <u>N/A</u> Water Table Present? Yes _____ No <u>X</u> Depth (inches): <u>>16</u> Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>0-16</u>				Wetland Hydrology Present? Yes <u>X</u> No _____			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks: A positive indication of wetland hydrology was observed (at least one primary indicator).							

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)														
Depth (inches)	Matrix		Redox Features				Texture	Remarks						
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²								
0-4	10YR 4/1	90	10YR 5/2	10	D	M	Sandy loam							
4-16	10YR 4/1	75	10YR 5/1	15	D	M	Sandy loam							
			10YR 5/6	10	C	M								
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix.														
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)						Indicators for Problematic Hydric Soils³:								
☐ Histosol (A1) ☐ Histic Epipedon (A2) ☐ Black Histic (A3) ☐ Hydrogen Sulfide (A4) ☐ Stratified Layers (A5) ☐ Organic Bodies (A6) (LRR P, T, U) ☐ 5 cm Mucky Mineral (A7) (LRR P, T, U) ☐ Muck Presence (A8) (LRR U) ☐ 1 cm Muck (A9) (LRR P, T) ☐ Depleted Below Dark Surface (A11) ☐ Thick Dark Surface (A12) ☐ Coast Prairie Redox (A16) (MLRA 150A) ☐ Sandy Mucky Mineral (S1) (LRR O, S) ☐ Sandy Gleyed Matrix (S4) ☐ Sandy Redox (S5) ☒ Stripped Matrix (S6) ☐ Dark Surface (S7) (LRR P, S, T, U)						☐ Polyvalue Below Surface (S8) (LRR S, T, U) ☐ Thin Dark Surface (S9) (LRR S, T, U) ☐ Loamy Mucky Mineral (F1) (LRR O) ☐ Loamy Gleyed Matrix (F2) ☐ Depleted Matrix (F3) ☐ Redox Dark Surface (F6) ☐ Depleted Dark Surface (F7) ☐ Redox Depressions (F8) ☐ Marl (F10) (LRR U) ☐ Depleted Ochric (F11) (MLRA 151) ☐ Iron-Manganese Masses (F12) (LRR O, P, T) ☐ Umbric Surface (F13) (LRR P, T, U) ☐ Delta Ochric (F17) (MLRA 151) ☐ Reduced Vertic (F18) (MLRA 150A, 150B) ☐ Piedmont Floodplain Soils (F19) (MLRA 149A) ☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)						☐ 1 cm Muck (A9) (LRR O) ☐ 2 cm Muck (A10) (LRR S) ☐ Reduced Vertic (F18) (outside MLRA 150A,B) ☐ Piedmont Floodplain Soils (F19) (LRR P, S, T) ☐ Anomalous Bright Loamy Soils (F20) ☐ (MLRA 153B) ☐ Red Parent Material (TF2) ☐ Very Shallow Dark Surface (TF12) ☐ Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.		
Restrictive Layer (if observed): Type: _____ Depth (inches): _____							Hydric Soil Present? Yes <u>X</u> No _____							
Remarks: A positive indication of hydric soil was observed.														

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

DP6

	Absolute % cover	Dominant Species	Indicator Status																													
Tree Stratum (Plot size: 30 ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>11</u> (A) Total Number of Dominant Species Across All Strata: <u>11</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																												
1. <i>Pinus elliotii</i>	10	Yes	FACW																													
2. <i>Magnolia virginiana</i>	5	Yes	FACW																													
3. _____																																
4. _____																																
5. _____																																
6. _____																																
	15 = Total Cover																															
50% of total cover:	7.5	20% of total cover:	3																													
Sapling Stratum (Plot size: 30 ft.)					Prevalence Index Worksheet: <table style="width: 100%;"> <tr> <th colspan="2">Total % Cover of:</th> <th colspan="2">Multiply by:</th> </tr> <tr> <td>OBL species</td> <td><u>23</u></td> <td>x 1 =</td> <td><u>23</u></td> </tr> <tr> <td>FACW species</td> <td><u>113</u></td> <td>x 2 =</td> <td><u>226</u></td> </tr> <tr> <td>FAC species</td> <td><u>19</u></td> <td>x 3 =</td> <td><u>57</u></td> </tr> <tr> <td>FACU species</td> <td><u>0</u></td> <td>x 4 =</td> <td><u>0</u></td> </tr> <tr> <td>UPL species</td> <td><u>0</u></td> <td>x 5 =</td> <td><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>155</u></td> <td>(A)</td> <td><u>306</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>1.97</u>	Total % Cover of:		Multiply by:		OBL species	<u>23</u>	x 1 =	<u>23</u>	FACW species	<u>113</u>	x 2 =	<u>226</u>	FAC species	<u>19</u>	x 3 =	<u>57</u>	FACU species	<u>0</u>	x 4 =	<u>0</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals:	<u>155</u>	(A)
Total % Cover of:		Multiply by:																														
OBL species	<u>23</u>	x 1 =	<u>23</u>																													
FACW species	<u>113</u>	x 2 =	<u>226</u>																													
FAC species	<u>19</u>	x 3 =	<u>57</u>																													
FACU species	<u>0</u>	x 4 =	<u>0</u>																													
UPL species	<u>0</u>	x 5 =	<u>0</u>																													
Column Totals:	<u>155</u>	(A)	<u>306</u> (B)																													
1. <i>Liquidambar styraciflua</i>	4	Yes	FAC																													
2. <i>Morella cerifera</i>	2	Yes	FAC																													
3. _____																																
4. _____																																
5. _____																																
6. _____																																
	6 = Total Cover																															
50% of total cover:	3	20% of total cover:	1.2																													
Shrub Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> X </u> 2 - Dominance Test is >50% <u> X </u> 3 - Prevalence Index is ≤ 3.0 ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)																												
1. <i>Liquidambar styraciflua</i>	3	Yes	FAC																													
2. <i>Magnolia virginiana</i>	2	Yes	FACW																													
3. <i>Ilex glabra</i>	2	Yes	FACW																													
4. _____																																
5. _____																																
6. _____																																
	7 = Total Cover																															
50% of total cover:	3.5	20% of total cover:	1.4																													
Herb Stratum (Plot size: 30 ft.)					¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																											
1. <i>Carex cherokeensis</i>	40	Yes	FACW																													
2. <i>Rhynchospora elliotii</i>	35	Yes	FACW																													
3. <i>Solidago sempervirens</i>	15	No	FACW																													
4. <i>Eriocaulon compressum</i>	10	No	OBL																													
5. <i>Dichanthelium scabriusculum</i>	8	No	OBL																													
6. <i>Xyris fimbriata</i>	5	No	OBL																													
7. <i>Polygala lutea</i>	2	No	FACW																													
8. <i>Pinus elliotii</i>	2	No	FACW																													
9. <i>Acer rubrum</i>	2	No	FAC																													
10. _____				Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height.																												
11. _____																																
	119 = Total Cover																															
50% of total cover:	59.5	20% of total cover:	23.8																													
Woody Vine Stratum (Plot size: 30 ft.)					Hydrophytic Vegetation Present? Yes <u> X </u> No <u> </u>																											
1. <i>Rubus argutus</i>	5	Yes	FAC																													
2. <i>Toxicodendron radicans</i>	3	Yes	FAC																													
3. _____																																
4. _____																																
5. _____																																
	8 = Total Cover																															
50% of total cover:	4	20% of total cover:	1.6																													
Remarks: (if observed, list morphological adaptations below). A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).																																

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site:	Site 1	County:	Hancock	Sampling Date:	June 14, 2022
Applicant/Owner:	Hancock County Port & Harbor Commission	State:	Mississippi	Sample Point:	DP7
Investigator(s):	Beth Beals and Savannah R. Morales	Section, Township, Range:	Section 30, Township 9S, Range 15W		
Landform (hillslope, terrace, etc.):	Plain	Local relief (concave, convex, none):	None	Slope (%):	0-5
Subregion (LRR or MLRA):	MLRA 152A, LRR T	Lat:	30.22847	Long:	-89.54463
Soil Map Unit Name:	Harleston fine sandy loam, 0-2% slopes	Datum:	WGS84	NWI Classification:	None
Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) Yes (if no, explain in Remarks.)					
Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No					
Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)					

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No	Is the Sampled Area within a Wetland?	Yes	No X
Hydric Soil Present?	Yes	No X			
Wetland Hydrology Present?	Yes	No X			
Remarks: This point was determined not to be within a wetland due to the lack of hydric soils and wetland hydrology.					

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)			
☐ High Water Table (A2)	☐ Marl Deposits (B15) (LRR U)	☐ Sparsely Vegetated Concave Surface (B8)			
☐ Saturation (A3)	☐ Hydrogen Sulfide Odor (C1)	☐ Drainage Patterns (B10)			
☐ Water Marks (B1)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Moss Trim Lines (B16)			
☐ Sediment Deposits (B2)	☐ Presence of Reduced Iron (C4)	☐ Dry-Season Water Table (C2)			
☐ Drift Deposits (B3)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Crayfish Burrows (C8)			
☐ Algal Mat or Crust (B4)	☐ Thin Muck Surface (C7)	☐ Saturation Visible on Aerial Imagery (C9)			
☐ Iron Deposits (B5)	☐ Other (Explain in Remarks)	☐ Geomorphic Position (D2)			
☐ Inundation Visible on Aerial Imagery (B7)		☐ Shallow Aquitard (D3)			
☐ Water-Stained Leaves (B9)		☐ FAC-Neutral Test (D5)			
				☐ Sphagnum moss (D8) (LRR T, U)	
Field Observations:				Wetland Hydrology Present?	
Surface Water Present?	Yes No X	Depth (inches):	N/A	Yes	No X
Water Table Present?	Yes No X	Depth (inches):	N/A		
Saturation Present?	Yes No X	Depth (inches):	N/A		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks: No positive indication of wetland hydrology was observed.					

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-2	10YR 5/4	100					Silt Loam	
2-8	2.5Y 6/4	80					Silt Loam	
	10YR 4/2	20						
8-16	2.5Y 6/6	95					Silt Loam	
	10YR 4/2	5						
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.								
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)						Indicators for Problematic Hydric Soils³:		
☐ Histosol (A1)			☐ Polyvalue Below Surface (S8) (LRR S, T, U)			☐ 1 cm Muck (A9) (LRR O)		
☐ Histic Epipedon (A2)			☐ Thin Dark Surface (S9) (LRR S, T, U)			☐ 2 cm Muck (A10) (LRR S)		
☐ Black Histic (A3)			☐ Loamy Mucky Mineral (F1) (LRR O)			☐ Reduced Vertic (F18) (outside MLRA 150A,B)		
☐ Hydrogen Sulfide (A4)			☐ Loamy Gleyed Matrix (F2)			☐ Piedmont Floodplain Soils (F19) (LRR P, S, T)		
☐ Stratified Layers (A5)			☐ Depleted Matrix (F3)			☐ Anomalous Bright Loamy Soils (F20)		
☐ Organic Bodies (A6) (LRR P, T, U)			☐ Redox Dark Surface (F6)			☐ (MLRA 153B)		
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)			☐ Depleted Dark Surface (F7)			☐ Red Parent Material (TF2)		
☐ Muck Presence (A8) (LRR U)			☐ Redox Depressions (F8)			☐ Very Shallow Dark Surface (TF12)		
☐ 1 cm Muck (A9) (LRR P, T)			☐ Marl (F10) (LRR U)			☐ Other (Explain in Remarks)		
☐ Depleted Below Dark Surface (A11)			☐ Depleted Ochric (F11) (MLRA 151)					
☐ Thick Dark Surface (A12)			☐ Iron-Manganese Masses (F12) (LRR O, P, T)					
☐ Coast Prairie Redox (A16) (MLRA 150A)			☐ Umbric Surface (F13) (LRR P, T, U)					
☐ Sandy Mucky Mineral (S1) (LRR O, S)			☐ Delta Ochric (F17) (MLRA 151)					
☐ Sandy Gleyed Matrix (S4)			☐ Reduced Vertic (F18) (MLRA 150A, 150B)					
☐ Sandy Redox (S5)			☐ Piedmont Floodplain Soils (F19) (MLRA 149A)					
☐ Stripped Matrix (S6)			☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)					
☐ Dark Surface (S7) (LRR P, S, T, U)								
Restrictive Layer (if observed):						Hydric Soil Present?		
Type: _____						Yes _____ No X		
Depth (inches): _____								
Remarks: No positive indication of hydric soils was observed.								

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

DP7

	Absolute % cover	Dominant Species	Indicator Status																													
Tree Stratum (Plot size: <u>30</u> ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>83%</u> (A/B)																												
1. <i>Quercus nigra</i>	30	Yes	FAC																													
2. <i>Quercus virginiana</i>	15	Yes	FACU																													
3. <i>Quercus alba</i>	10	No	FACU																													
4. <i>Magnolia grandiflora</i>	10	No	FAC																													
5. <i>Quercus marilandica</i>	5	No	UPL																													
6. _____	70																															
	= Total Cover																															
50% of total cover: <u>35</u>	20% of total cover: <u>14</u>																															
Sapling Stratum (Plot size: <u>30</u> ft.)					Prevalence Index Worksheet: <table style="width: 100%;"> <tr> <th colspan="2">Total % Cover of:</th> <th colspan="2">Multiply by:</th> </tr> <tr> <td>OBL species</td> <td><u>0</u></td> <td>x 1 =</td> <td><u>0</u></td> </tr> <tr> <td>FACW species</td> <td><u>0</u></td> <td>x 2 =</td> <td><u>0</u></td> </tr> <tr> <td>FAC species</td> <td><u>130</u></td> <td>x 3 =</td> <td><u>390</u></td> </tr> <tr> <td>FACU species</td> <td><u>31</u></td> <td>x 4 =</td> <td><u>124</u></td> </tr> <tr> <td>UPL species</td> <td><u>5</u></td> <td>x 5 =</td> <td><u>25</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>166</u></td> <td>(A)</td> <td><u>539</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>3.25</u>	Total % Cover of:		Multiply by:		OBL species	<u>0</u>	x 1 =	<u>0</u>	FACW species	<u>0</u>	x 2 =	<u>0</u>	FAC species	<u>130</u>	x 3 =	<u>390</u>	FACU species	<u>31</u>	x 4 =	<u>124</u>	UPL species	<u>5</u>	x 5 =	<u>25</u>	Column Totals:	<u>166</u>	(A)
Total % Cover of:		Multiply by:																														
OBL species	<u>0</u>	x 1 =	<u>0</u>																													
FACW species	<u>0</u>	x 2 =	<u>0</u>																													
FAC species	<u>130</u>	x 3 =	<u>390</u>																													
FACU species	<u>31</u>	x 4 =	<u>124</u>																													
UPL species	<u>5</u>	x 5 =	<u>25</u>																													
Column Totals:	<u>166</u>	(A)	<u>539</u> (B)																													
1. <i>Quercus nigra</i>	30	Yes	FAC																													
2. _____																																
3. _____																																
4. _____																																
5. _____																																
6. _____																																
	30	= Total Cover																														
50% of total cover: <u>15</u>	20% of total cover: <u>6</u>																															
Shrub Stratum (Plot size: <u>30</u> ft.)				Hydrophytic Vegetation Indicators: ☐ 1 - Rapid Test for Hydrophytic Vegetation ☒ 2 - Dominance Test is >50% ☐ 3 - Prevalence Index is ≤ 3.0 ¹ ☐ Problematic Hydrophytic Vegetation ¹ (Explain)																												
1. <i>Ilex vomitoria</i>	25	Yes	FAC																													
2. <i>Morella cerifera</i>	5	No	FAC																													
3. <i>Symplocos tinctoria</i>	5	No	FAC																													
4. _____																																
5. _____																																
6. _____																																
	35	= Total Cover																														
50% of total cover: <u>17.5</u>	20% of total cover: <u>7</u>																															
Herb Stratum (Plot size: <u>30</u> ft.)					Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height.																											
1. <i>Ilex vomitoria</i>	15	Yes	FAC																													
2. <i>Chasmanthium sessiliflorum</i>	5	Yes	FAC																													
3. <i>Eupatorium capillifolium</i>	3	No	FACU																													
4. <i>Quercus alba</i>	3	No	FACU																													
5. <i>Liquidambar styraciflua</i>	3	No	FAC																													
6. <i>Magnolia grandiflora</i>	2	No	FAC																													
7. _____																																
8. _____																																
9. _____																																
10. _____																																
11. _____																																
	31	= Total Cover																														
50% of total cover: <u>15.5</u>	20% of total cover: <u>6.2</u>																															
Woody Vine Stratum (Plot size: <u>30</u> ft.)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____																												
1. <i>None Observed</i>																																
2. _____																																
3. _____																																
4. _____																																
5. _____																																
		= Total Cover																														
50% of total cover: _____	20% of total cover: _____																															
Remarks: (if observed, list morphological adaptations below). A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).																																

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: _____ Site 1 _____ County: _____ Hancock _____ Sampling Date: _____ June 14, 2022 _____

Applicant/Owner: _____ Hancock County Port & Harbor Commission _____ State: _____ Mississippi _____ Sample Point: _____ DP8 _____

Investigator(s): _____ Beth Beals _____ and _____ Savannah R. Morales _____ Section, Township, Range: _____ Section 30, Township 9S, Range 15W _____

Landform (hillslope, terrace, etc.): _____ Linear Slope _____ Local relief (concave, convex, none): _____ None _____ Slope (%): _____ 0-5 _____

Subregion (LRR or MLRA): _____ MLRA 152A, LRR T _____ Lat: _____ 30.23026 _____ Long: _____ -89.54332 _____ Datum: _____ WGS84 _____

Soil Map Unit Name: _____ Harleston fine sandy loam, 0-2% slopes _____ NWI Classification: _____ None _____

Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) _____ Yes _____ (if no, explain in Remarks.) _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ X _____ No _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ naturally problematic? (If needed, explain any answers in Remarks.) _____

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No _____
Hydric Soil Present?	Yes <u>X</u>	No _____			
Wetland Hydrology Present?	Yes <u>X</u>	No _____			
Remarks: This point was determined to be within a wetland due to the presence of all three wetland criteria.					

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)			
☐ High Water Table (A2)	☐ Marl Deposits (B15) (LRR U)	☐ Sparsely Vegetated Concave Surface (B8)			
☐ Saturation (A3)	☐ Hydrogen Sulfide Odor (C1)	☐ Drainage Patterns (B10)			
☐ Water Marks (B1)	☒ Oxidized Rhizospheres on Living Roots (C3)	☐ Moss Trim Lines (B16)			
☐ Sediment Deposits (B2)	☐ Presence of Reduced Iron (C4)	☐ Dry-Season Water Table (C2)			
☐ Drift Deposits (B3)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Crayfish Burrows (C8)			
☐ Algal Mat or Crust (B4)	☐ Thin Muck Surface (C7)	☐ Saturation Visible on Aerial Imagery (C9)			
☐ Iron Deposits (B5)	☐ Other (Explain in Remarks)	☐ Geomorphic Position (D2)			
☐ Inundation Visible on Aerial Imagery (B7)		☐ Shallow Aquitard (D3)			
☐ Water-Stained Leaves (B9)		☒ FAC-Neutral Test (D5)			
		☒ Sphagnum moss (D8) (LRR T, U)			
Field Observations:				Wetland Hydrology Present?	
Surface Water Present?	Yes _____ No <u>X</u>	Depth (inches):	<u>N/A</u>	Yes <u>X</u>	No _____
Water Table Present?	Yes _____ No <u>X</u>	Depth (inches):	<u>N/A</u>		
Saturation Present?	Yes _____ No <u>X</u>	Depth (inches):	<u>N/A</u>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks: A positive indication of wetland hydrology was observed (at least one primary indicator).					

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-8	10YR 4/1	50	2.5Y 8/1	45	D	M	Sandy loam	
			10YR 4/6	5	C	M	Sandy loam	
8-16	10YR 4/1	85	10YR 4/6	10	C	M	Sandy loam	
			2.5Y 7/1	5	D	M	Sandy loam	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.								
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)						Indicators for Problematic Hydric Soils³:		
☐ Histosol (A1)	☐ Polyvalue Below Surface (S8) (LRR S, T, U)				☐ 1 cm Muck (A9) (LRR O)			
☐ Histic Epipedon (A2)	☐ Thin Dark Surface (S9) (LRR S, T, U)				☐ 2 cm Muck (A10) (LRR S)			
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (LRR O)				☐ Reduced Vertic (F18) (outside MLRA 150A,B)			
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)				☐ Piedmont Floodplain Soils (F19) (LRR P, S, T)			
☐ Stratified Layers (A5)	☐ Depleted Matrix (F3)				☐ Anomalous Bright Loamy Soils (F20)			
☐ Organic Bodies (A6) (LRR P, T, U)	☐ Redox Dark Surface (F6)				☐ (MLRA 153B)			
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)	☐ Depleted Dark Surface (F7)				☐ Red Parent Material (TF2)			
☐ Muck Presence (A8) (LRR U)	☐ Redox Depressions (F8)				☐ Very Shallow Dark Surface (TF12)			
☐ 1 cm Muck (A9) (LRR P, T)	☐ Marl (F10) (LRR U)				☐ Other (Explain in Remarks)			
☐ Depleted Below Dark Surface (A11)	☐ Depleted Ochric (F11) (MLRA 151)							
☐ Thick Dark Surface (A12)	☐ Iron-Manganese Masses (F12) (LRR O, P, T)							
☐ Coast Prairie Redox (A16) (MLRA 150A)	☐ Umbric Surface (F13) (LRR P, T, U)							
☐ Sandy Mucky Mineral (S1) (LRR O, S)	☐ Delta Ochric (F17) (MLRA 151)							
☐ Sandy Gleyed Matrix (S4)	☐ Reduced Vertic (F18) (MLRA 150A, 150B)							
☐ Sandy Redox (S5)	☐ Piedmont Floodplain Soils (F19) (MLRA 149A)							
☒ Stripped Matrix (S6)	☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)							
☐ Dark Surface (S7) (LRR P, S, T, U)								
Restrictive Layer (if observed):						Hydric Soil Present?		
Type: _____						Yes <u>X</u>		
Depth (inches): _____						No _____		
Remarks: A positive indication of hydric soil was observed.								

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

DP8

	Absolute % cover	Dominant Species	Indicator Status																													
Tree Stratum (Plot size: 30 ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																												
1. <i>Magnolia virginiana</i>	45	Yes	FACW																													
2. <i>Acer rubrum</i>	5	No	FAC																													
3. <i>Quercus nigra</i>	5	No	FAC																													
4. <i>Triadica sebifera</i>	3	No	FAC																													
5. <i>Diospyros virginiana</i>	2	No	FAC																													
6. <i>Pinus elliotii</i>	2	No	FACW																													
	62 = Total Cover																															
50% of total cover:	31	20% of total cover:	12.4																													
Sapling Stratum (Plot size: 30 ft.)					Prevalence Index Worksheet: <table style="width: 100%;"> <tr> <th colspan="2">Total % Cover of:</th> <th colspan="2">Multiply by:</th> </tr> <tr> <td>OBL species</td> <td><u>0</u></td> <td>x 1 =</td> <td><u>0</u></td> </tr> <tr> <td>FACW species</td> <td><u>117</u></td> <td>x 2 =</td> <td><u>234</u></td> </tr> <tr> <td>FAC species</td> <td><u>111</u></td> <td>x 3 =</td> <td><u>333</u></td> </tr> <tr> <td>FACU species</td> <td><u>0</u></td> <td>x 4 =</td> <td><u>0</u></td> </tr> <tr> <td>UPL species</td> <td><u>5</u></td> <td>x 5 =</td> <td><u>25</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>233</u></td> <td>(A)</td> <td><u>592</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>2.54</u>	Total % Cover of:		Multiply by:		OBL species	<u>0</u>	x 1 =	<u>0</u>	FACW species	<u>117</u>	x 2 =	<u>234</u>	FAC species	<u>111</u>	x 3 =	<u>333</u>	FACU species	<u>0</u>	x 4 =	<u>0</u>	UPL species	<u>5</u>	x 5 =	<u>25</u>	Column Totals:	<u>233</u>	(A)
Total % Cover of:		Multiply by:																														
OBL species	<u>0</u>	x 1 =	<u>0</u>																													
FACW species	<u>117</u>	x 2 =	<u>234</u>																													
FAC species	<u>111</u>	x 3 =	<u>333</u>																													
FACU species	<u>0</u>	x 4 =	<u>0</u>																													
UPL species	<u>5</u>	x 5 =	<u>25</u>																													
Column Totals:	<u>233</u>	(A)	<u>592</u> (B)																													
1. <i>Diospyros virginiana</i>	20	Yes	FAC																													
2. <i>Acer rubrum</i>	15	Yes	FAC																													
3. <i>Magnolia virginiana</i>	10	No	FACW																													
4. <i>Quercus nigra</i>	5	No	FAC																													
5. <i>Quercus geminata</i>	5	No	UPL																													
6.																																
	55 = Total Cover																															
50% of total cover:	27.5	20% of total cover:	11																													
Shrub Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> X </u> 2 - Dominance Test is >50% <u> X </u> 3 - Prevalence Index is ≤ 3.0 ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)																												
1. <i>Morella cerifera</i>	15	Yes	FAC																													
2. <i>Ilex opaca</i>	8	Yes	FAC																													
3.																																
4.																																
5.																																
6.																																
	23 = Total Cover																															
50% of total cover:	11.5	20% of total cover:	4.6																													
Herb Stratum (Plot size: 30 ft.)					Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height.																											
1. <i>Rhynchospora elliotii</i>	60	Yes	FACW																													
2. <i>Toxicodendron radicans</i>	10	No	FAC																													
3. <i>Acer rubrum</i>	10	No	FAC																													
4. <i>Ilex vomitoria</i>	5	No	FAC																													
5. <i>Liquidambar styraciflua</i>	5	No	FAC																													
6. <i>Vitis rotundifolia</i>	3	No	FAC																													
7.																																
8.																																
9.																																
10.																																
11.																																
	93 = Total Cover																															
50% of total cover:	46.5	20% of total cover:	18.6																													
Woody Vine Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Present? Yes <u> X </u> No <u> </u>																												
1. <i>None Observed</i>																																
2.																																
3.																																
4.																																
5.																																
50% of total cover:		20% of total cover:																														
Remarks: (if observed, list morphological adaptations below). A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).																																

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: _____ Site 1 _____ County: _____ Hancock _____ Sampling Date: _____ June 14, 2022 _____

Applicant/Owner: _____ Hancock County Port & Harbor Commission _____ State: _____ Mississippi _____ Sample Point: _____ DP9 _____

Investigator(s): _____ Beth Beals _____ and _____ Savannah R. Morales _____ Section, Township, Range: _____ Section 25, Township 9S, Range 16W _____

Landform (hillslope, terrace, etc.): _____ Hummocked Plain _____ Local relief (concave, convex, none): _____ None _____ Slope (%): _____ 0-5 _____

Subregion (LRR or MLRA): _____ MLRA 152A, LRR T _____ Lat: _____ 30.23103 _____ Long: _____ -89.54517 _____ Datum: _____ WGS84 _____

Soil Map Unit Name: _____ Harleston fine sandy loam, 0-2% slopes _____ NWI Classification: _____ None _____

Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) _____ Yes _____ (if no, explain in Remarks.) _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ X _____ No _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ naturally problematic? (If needed, explain any answers in Remarks.) _____

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u>	No _____	
Wetland Hydrology Present?	Yes <u>X</u>	No _____	
Remarks: This point was determined to be within a wetland due to the presence of all three wetland criteria.			

HYDROLOGY

Wetland hydrology indicators: Primary Indicators (minimum of one is required; check all that apply)				Secondary Indicators (minimum of two required)			
☐ Surface Water (A1) ☐ High Water Table (A2) ☒ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B2) ☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial Imagery (B7) ☐ Water-Stained Leaves (B9)	☐ Aquatic Fauna (B13) ☐ Marl Deposits (B15) (LRR U) ☐ Hydrogen Sulfide Odor (C1) ☒ Oxidized Rhizospheres on Living Roots (C3) ☐ Presence of Reduced Iron (C4) ☐ Recent Iron Reduction in Tilled Soils (C6) ☐ Thin Muck Surface (C7) ☐ Other (Explain in Remarks)	☐ Surface Soil Cracks (B6) ☐ Sparsely Vegetated Concave Surface (B8) ☐ Drainage Patterns (B10) ☐ Moss Trim Lines (B16) ☐ Dry-Season Water Table (C2) ☐ Crayfish Burrows (C8) ☐ Saturation Visible on Aerial Imagery (C9) ☐ Geomorphic Position (D2) ☐ Shallow Aquitard (D3) ☒ FAC-Neutral Test (D5) ☒ Sphagnum moss (D8) (LRR T, U)					
Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): <u>N/A</u> Water Table Present? Yes _____ No <u>X</u> Depth (inches): <u>>16</u> Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>9-16</u>				Wetland Hydrology Present? Yes <u>X</u> No _____			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks: A positive indication of wetland hydrology was observed (at least one primary indicator).							

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)														
Depth (inches)	Matrix		Redox Features				Texture	Remarks						
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²								
0-7	10YR 3/1	60	10YR 6/1	40	D	M	Sandy loam							
7-16	10YR 4/1	40	10YR 6/1	50	D	M	Sandy loam							
			10YR 6/6	10	C	M								
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix.														
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)						Indicators for Problematic Hydric Soils³:								
☐ Histosol (A1) ☐ Histic Epipedon (A2) ☐ Black Histic (A3) ☐ Hydrogen Sulfide (A4) ☐ Stratified Layers (A5) ☐ Organic Bodies (A6) (LRR P, T, U) ☐ 5 cm Mucky Mineral (A7) (LRR P, T, U) ☐ Muck Presence (A8) (LRR U) ☐ 1 cm Muck (A9) (LRR P, T) ☐ Depleted Below Dark Surface (A11) ☐ Thick Dark Surface (A12) ☐ Coast Prairie Redox (A16) (MLRA 150A) ☐ Sandy Mucky Mineral (S1) (LRR O, S) ☐ Sandy Gleyed Matrix (S4) ☐ Sandy Redox (S5) ☒ Stripped Matrix (S6) ☒ Dark Surface (S7) (LRR P, S, T, U)						☐ Polyvalue Below Surface (S8) (LRR S, T, U) ☐ Thin Dark Surface (S9) (LRR S, T, U) ☐ Loamy Mucky Mineral (F1) (LRR O) ☐ Loamy Gleyed Matrix (F2) ☐ Depleted Matrix (F3) ☐ Redox Dark Surface (F6) ☐ Depleted Dark Surface (F7) ☐ Redox Depressions (F8) ☐ Marl (F10) (LRR U) ☐ Depleted Ochric (F11) (MLRA 151) ☐ Iron-Manganese Masses (F12) (LRR O, P, T) ☐ Umbric Surface (F13) (LRR P, T, U) ☐ Delta Ochric (F17) (MLRA 151) ☐ Reduced Vertic (F18) (MLRA 150A, 150B) ☐ Piedmont Floodplain Soils (F19) (MLRA 149A) ☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)						☐ 1 cm Muck (A9) (LRR O) ☐ 2 cm Muck (A10) (LRR S) ☐ Reduced Vertic (F18) (outside MLRA 150A,B) ☐ Piedmont Floodplain Soils (F19) (LRR P, S, T) ☐ Anomalous Bright Loamy Soils (F20) (MLRA 153B) ☐ Red Parent Material (TF2) ☐ Very Shallow Dark Surface (TF12) ☐ Other (Explain in Remarks)		
³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.														
Restrictive Layer (if observed): Type: _____ Depth (inches): _____							Hydric Soil Present? Yes <u>X</u> No _____							
Remarks: A positive indication of hydric soil was observed.														

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

DP9

	Absolute % cover	Dominant Species	Indicator Status																													
Tree Stratum (Plot size: <u>30</u> ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>12</u> (A) Total Number of Dominant Species Across All Strata: <u>12</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																												
1. <i>Pinus elliotii</i>	50	Yes	FACW																													
2. <i>Nyssa sylvatica</i>	20	Yes	FAC																													
3. <i>Quercus nigra</i>	20	Yes	FAC																													
4. <i>Magnolia virginiana</i>	20	Yes	FACW																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	110 = Total Cover																															
50% of total cover:	55	20% of total cover:	22																													
Sapling Stratum (Plot size: <u>30</u> ft.)					Prevalence Index Worksheet: <table style="width: 100%;"> <tr> <th colspan="2">Total % Cover of:</th> <th colspan="2">Multiply by:</th> </tr> <tr> <td>OBL species</td> <td><u>0</u></td> <td>x 1 =</td> <td><u>0</u></td> </tr> <tr> <td>FACW species</td> <td><u>95</u></td> <td>x 2 =</td> <td><u>190</u></td> </tr> <tr> <td>FAC species</td> <td><u>107</u></td> <td>x 3 =</td> <td><u>321</u></td> </tr> <tr> <td>FACU species</td> <td><u>3</u></td> <td>x 4 =</td> <td><u>12</u></td> </tr> <tr> <td>UPL species</td> <td><u>0</u></td> <td>x 5 =</td> <td><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>205</u></td> <td>(A)</td> <td><u>523</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>2.55</u>	Total % Cover of:		Multiply by:		OBL species	<u>0</u>	x 1 =	<u>0</u>	FACW species	<u>95</u>	x 2 =	<u>190</u>	FAC species	<u>107</u>	x 3 =	<u>321</u>	FACU species	<u>3</u>	x 4 =	<u>12</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals:	<u>205</u>	(A)
Total % Cover of:		Multiply by:																														
OBL species	<u>0</u>	x 1 =	<u>0</u>																													
FACW species	<u>95</u>	x 2 =	<u>190</u>																													
FAC species	<u>107</u>	x 3 =	<u>321</u>																													
FACU species	<u>3</u>	x 4 =	<u>12</u>																													
UPL species	<u>0</u>	x 5 =	<u>0</u>																													
Column Totals:	<u>205</u>	(A)	<u>523</u> (B)																													
1. <i>Pinus elliotii</i>	15	Yes	FACW																													
2. <i>Nyssa sylvatica</i>	5	Yes	FAC																													
3. <i>Ilex vomitoria</i>	5	Yes	FAC																													
4. <i>Quercus nigra</i>	5	Yes	FAC																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	30 = Total Cover																															
50% of total cover:	15	20% of total cover:	6																													
Shrub Stratum (Plot size: <u>30</u> ft.)				Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> X </u> 2 - Dominance Test is >50% <u> X </u> 3 - Prevalence Index is ≤ 3.0 ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)																												
1. <i>Ilex vomitoria</i>	10	Yes	FAC																													
2. <i>Ilex coriacea</i>	5	Yes	FACW																													
3. <i>Vaccinium arboreum</i>	3	No	FACU																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	18 = Total Cover																															
50% of total cover:	9	20% of total cover:	3.6																													
Herb Stratum (Plot size: <u>30</u> ft.)					Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height.																											
1. <i>Quercus nigra</i>	30	Yes	FAC																													
2. <i>Toxicodendron radicans</i>	5	No	FAC																													
3. <i>Vitis rotundifolia</i>	5	No	FAC																													
4. <i>Ilex glabra</i>	5	No	FACW																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
7. _____	_____	_____	_____																													
8. _____	_____	_____	_____																													
9. _____	_____	_____	_____																													
10. _____	_____	_____	_____																													
11. _____	_____	_____	_____																													
	45 = Total Cover																															
50% of total cover:	22.5	20% of total cover:	9																													
Woody Vine Stratum (Plot size: <u>30</u> ft.)				Hydrophytic Vegetation Present? Yes <u> X </u> No <u> </u>																												
1. <i>Vitis rotundifolia</i>	2	Yes	FAC																													
2. _____	_____	_____	_____																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
	2 = Total Cover																															
50% of total cover:	1	20% of total cover:	0.4																													

Remarks: (if observed, list morphological adaptations below).

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site:	Site 1	County:	Hancock	Sampling Date:	June 30, 2022					
Applicant/Owner:	Hancock County Port & Harbor Commission	State:	Mississippi	Sample Point:	DP10					
Investigator(s):	Savannah R. Morales and Lindsay Spurrier	Section, Township, Range:	Section 25, Township 9S, Range 16W							
Landform (hillslope, terrace, etc.):	Linear Slope	Local relief (concave, convex, none):	None	Slope (%):	5-10					
Subregion (LRR or MLRA):	MLRA 152A, LRR T	Lat:	30.22735	Long:	-89.54892	Datum:	WGS84			
Soil Map Unit Name:	Smithon fine sandy loam, FF, 0-2% slopes			NWI Classification:	None					
Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) Yes (if no, explain in Remarks.)										
Are Vegetation	No	Soil	No	or Hydrology	No	significantly disturbed?	Are "Normal Circumstances" present?	Yes	X	No
Are Vegetation	No	Soil	No	or Hydrology	No	naturally problematic?	(If needed, explain any answers in Remarks.)			

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes	X	No		Is the Sampled Area within a Wetland?	Yes	X	No	
Hydric Soil Present?	Yes	X	No						
Wetland Hydrology Present?	Yes	X	No						
Remarks: This point was determined to be within a wetland due to the presence of all three wetland criteria.									

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)		☐ Moss Trim Lines (B16)						
☐ Saturation (A3)	☐ Hydrogen Sulfide Odor (C1)	☐ Dry-Season Water Table (C2)		☐ Crayfish Burrows (C8)						
☐ Water Marks (B1)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Saturation Visible on Aerial Imagery (C9)		☒ Geomorphic Position (D2)						
☐ Sediment Deposits (B2)	☐ Presence of Reduced Iron (C4)	☐ Shallow Aquitard (D3)		☒ FAC-Neutral Test (D5)						
☐ Drift Deposits (B3)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Sphagnum moss (D8) (LRR T, U)								
☐ Algal Mat or Crust (B4)	☐ Thin Muck Surface (C7)									
☐ Iron Deposits (B5)	☐ Other (Explain in Remarks)									
☐ Inundation Visible on Aerial Imagery (B7)										
☐ Water-Stained Leaves (B9)										
Field Observations:				Wetland Hydrology Present?						
Surface Water Present?	Yes		No	X	Depth (inches):	N/A		Yes	X	No
Water Table Present?	Yes		No	X	Depth (inches):	N/A				
Saturation Present?	Yes		No	X	Depth (inches):	N/A				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:										
Remarks: A positive indication of wetland hydrology was observed (at least two secondary indicators).										

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth (inches)	Matrix		Redox Features				Texture	Remarks			
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²					
0-3	10YR 3/2	75					Sandy loam				
	10YR 6/1	25									
3-10	10YR 4/2	70	7.5YR 4/6	5	C	M	Sandy loam				
			10YR 5/1	25	D	M					
10-16	10YR 5/1	90	10YR 6/6	10	C	M	Sandy loam				
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.											
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)										Indicators for Problematic Hydric Soils³:	
☐ Histosol (A1)	☐ Polyvalue Below Surface (S8) (LRR S, T, U)				☐ 1 cm Muck (A9) (LRR O)						
☐ Histic Epipedon (A2)	☐ Thin Dark Surface (S9) (LRR S, T, U)				☐ 2 cm Muck (A10) (LRR S)						
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (LRR O)				☐ Reduced Vertic (F18) (outside MLRA 150A,B)						
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)				☐ Piedmont Floodplain Soils (F19) (LRR P, S, T)						
☐ Stratified Layers (A5)	☐ Depleted Matrix (F3)				☐ Anomalous Bright Loamy Soils (F20)						
☐ Organic Bodies (A6) (LRR P, T, U)	☐ Redox Dark Surface (F6)				☐ (MLRA 153B)						
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)	☐ Depleted Dark Surface (F7)				☐ Red Parent Material (TF2)						
☐ Muck Presence (A8) (LRR U)	☐ Redox Depressions (F8)				☐ Very Shallow Dark Surface (TF12)						
☐ 1 cm Muck (A9) (LRR P, T)	☐ Marl (F10) (LRR U)				☐ Other (Explain in Remarks)						
☐ Depleted Below Dark Surface (A11)	☐ Depleted Ochric (F11) (MLRA 151)										
☐ Thick Dark Surface (A12)	☐ Iron-Manganese Masses (F12) (LRR O, P, T)										
☐ Coast Prairie Redox (A16) (MLRA 150A)	☐ Umbric Surface (F13) (LRR P, T, U)										
☐ Sandy Mucky Mineral (S1) (LRR O, S)	☐ Delta Ochric (F17) (MLRA 151)										
☐ Sandy Gleyed Matrix (S4)	☐ Reduced Vertic (F18) (MLRA 150A, 150B)										
☒ Sandy Redox (S5)	☐ Piedmont Floodplain Soils (F19) (MLRA 149A)										
☐ Stripped Matrix (S6)	☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)										
☐ Dark Surface (S7) (LRR P, S, T, U)											
Restrictive Layer (if observed):							Hydric Soil Present?				
Type: _____							Yes			X	No
Depth (inches): _____											
Remarks: A positive indication of hydric soil was observed.											

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

DP10

	Absolute % cover	Dominant Species	Indicator Status																													
Tree Stratum (Plot size: 30 ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>9</u> (A) Total Number of Dominant Species Across All Strata: <u>9</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																												
1. <i>Magnolia virginiana</i>	60	Yes	FACW																													
2. <i>Nyssa sylvatica</i>	20	Yes	FAC																													
3. <i>Quercus nigra</i>	10	No	FAC																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	90 = Total Cover																															
50% of total cover:	45	20% of total cover:	18																													
Sapling Stratum (Plot size: 30 ft.)					Prevalence Index Worksheet: <table style="width: 100%;"> <tr> <th colspan="2">Total % Cover of:</th> <th colspan="2">Multiply by:</th> </tr> <tr> <td>OBL species</td> <td><u>0</u></td> <td>x 1 =</td> <td><u>0</u></td> </tr> <tr> <td>FACW species</td> <td><u>165</u></td> <td>x 2 =</td> <td><u>330</u></td> </tr> <tr> <td>FAC species</td> <td><u>45</u></td> <td>x 3 =</td> <td><u>135</u></td> </tr> <tr> <td>FACU species</td> <td><u>0</u></td> <td>x 4 =</td> <td><u>0</u></td> </tr> <tr> <td>UPL species</td> <td><u>0</u></td> <td>x 5 =</td> <td><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>210</u></td> <td>(A)</td> <td><u>465</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>2.21</u>	Total % Cover of:		Multiply by:		OBL species	<u>0</u>	x 1 =	<u>0</u>	FACW species	<u>165</u>	x 2 =	<u>330</u>	FAC species	<u>45</u>	x 3 =	<u>135</u>	FACU species	<u>0</u>	x 4 =	<u>0</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals:	<u>210</u>	(A)
Total % Cover of:		Multiply by:																														
OBL species	<u>0</u>	x 1 =	<u>0</u>																													
FACW species	<u>165</u>	x 2 =	<u>330</u>																													
FAC species	<u>45</u>	x 3 =	<u>135</u>																													
FACU species	<u>0</u>	x 4 =	<u>0</u>																													
UPL species	<u>0</u>	x 5 =	<u>0</u>																													
Column Totals:	<u>210</u>	(A)	<u>465</u> (B)																													
1. <i>Magnolia virginiana</i>	25	Yes	FACW																													
2. _____	_____	_____	_____																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	25 = Total Cover																															
50% of total cover:	12.5	20% of total cover:	5																													
Shrub Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Indicators: ☐ 1 - Rapid Test for Hydrophytic Vegetation ☒ 2 - Dominance Test is >50% ☒ 3 - Prevalence Index is ≤ 3.0 ¹ _____ Problematic Hydrophytic Vegetation ¹ (Explain)																												
1. <i>Lyonia lucida</i>	55	Yes	FACW																													
2. <i>Ilex glabra</i>	5	No	FACW																													
3. <i>Morella cerifera</i>	2	No	FAC																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	62 = Total Cover																															
50% of total cover:	31	20% of total cover:	12.4																													
Herb Stratum (Plot size: 30 ft.)					Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height.																											
1. <i>Ilex glabra</i>	10	Yes	FACW																													
2. <i>Lyonia lucida</i>	5	Yes	FACW																													
3. <i>Vitis rotundifolia</i>	5	Yes	FAC																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
7. _____	_____	_____	_____																													
8. _____	_____	_____	_____																													
9. _____	_____	_____	_____																													
10. _____	_____	_____	_____																													
11. _____	_____	_____	_____																													
	20 = Total Cover																															
50% of total cover:	10	20% of total cover:	4																													
Woody Vine Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____																												
1. <i>Vitis rotundifolia</i>	8	Yes	FAC																													
2. <i>Smilax laurifolia</i>	5	Yes	FACW																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
	13 = Total Cover																															
50% of total cover:	6.5	20% of total cover:	2.6																													
Remarks: (if observed, list morphological adaptations below). A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).																																

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: _____ Site 1 _____ County: _____ Hancock _____ Sampling Date: _____ June 30, 2022 _____

Applicant/Owner: _____ Hancock County Port & Harbor Commission _____ State: _____ Mississippi _____ Sample Point: _____ DP11 _____

Investigator(s): _____ Savannah R. Morales _____ and _____ Lindsay Spurrier _____ Section, Township, Range: _____ Section 25, Township 9S, Range 16W _____

Landform (hillslope, terrace, etc.): _____ Depression _____ Local relief (concave, convex, none): _____ Concave _____ Slope (%): _____ 0-5 _____

Subregion (LRR or MLRA): _____ MLRA 152A, LRR T _____ Lat: _____ 30.23512 _____ Long: _____ -89.55331 _____ Datum: _____ WGS84 _____

Soil Map Unit Name: _____ Ocilla loamy sand, 0-2% slopes _____ NWI Classification: _____ None _____

Are climatic / hydrologic conditions on the site typical for this time of year? _____ (Yes / No) _____ Yes _____ (if no, explain in Remarks.) _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ significantly disturbed? _____ Are "Normal Circumstances" present? _____ Yes _____ X _____ No _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ naturally problematic? _____ (If needed, explain any answers in Remarks.) _____

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u>	No _____	
Wetland Hydrology Present?	Yes <u>X</u>	No _____	
Remarks: This point was determined to be within a wetland due to the presence of all three wetland criteria.			

HYDROLOGY

Wetland hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)				Secondary Indicators (minimum of two required)			
☐ Surface Water (A1) ☐ High Water Table (A2) ☒ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B2) ☒ Drift Deposits (B3) ☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial Imagery (B7) ☐ Water-Stained Leaves (B9)	☐ Aquatic Fauna (B13) ☐ Marl Deposits (B15) (LRR U) ☐ Hydrogen Sulfide Odor (C1) ☐ Oxidized Rhizospheres on Living Roots (C3) ☐ Presence of Reduced Iron (C4) ☐ Recent Iron Reduction in Tilled Soils (C6) ☐ Thin Muck Surface (C7) ☐ Other (Explain in Remarks)	☐ Surface Soil Cracks (B6) ☐ Sparsely Vegetated Concave Surface (B8) ☒ Drainage Patterns (B10) ☐ Moss Trim Lines (B16) ☐ Dry-Season Water Table (C2) ☐ Crayfish Burrows (C8) ☐ Saturation Visible on Aerial Imagery (C9) ☒ Geomorphic Position (D2) ☐ Shallow Aquitard (D3) ☒ FAC-Neutral Test (D5) ☒ Sphagnum moss (D8) (LRR T, U)					
Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): <u>N/A</u> Water Table Present? Yes _____ No <u>X</u> Depth (inches): <u>>16</u> Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>10-16</u>				Wetland Hydrology Present? Yes <u>X</u> No _____			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks: A positive indication of wetland hydrology was observed (at least one primary indicator).							

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	10YR 2/2	34					Sandy Loam	
	10YR 6/2	66						
6-16	10YR 4/1	60	10YR 6/6	5	C	M	Sandy Loam	
	10YR 6/2	35						
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix.								
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)						Indicators for Problematic Hydric Soils³:		
☐ Histosol (A1) ☐ Histic Epipedon (A2) ☐ Black Histic (A3) ☐ Hydrogen Sulfide (A4) ☐ Stratified Layers (A5) ☐ Organic Bodies (A6) (LRR P, T, U) ☐ 5 cm Mucky Mineral (A7) (LRR P, T, U) ☐ Muck Presence (A8) (LRR U) ☐ 1 cm Muck (A9) (LRR P, T) ☐ Depleted Below Dark Surface (A11) ☐ Thick Dark Surface (A12) ☐ Coast Prairie Redox (A16) (MLRA 150A) ☐ Sandy Mucky Mineral (S1) (LRR O, S) ☐ Sandy Gleyed Matrix (S4) ☐ Sandy Redox (S5) ☒ Stripped Matrix (S6) ☐ Dark Surface (S7) (LRR P, S, T, U)						☐ Polyvalue Below Surface (S8) (LRR S, T, U) ☐ Thin Dark Surface (S9) (LRR S, T, U) ☐ Loamy Mucky Mineral (F1) (LRR O) ☐ Loamy Gleyed Matrix (F2) ☐ Depleted Matrix (F3) ☐ Redox Dark Surface (F6) ☐ Depleted Dark Surface (F7) ☐ Redox Depressions (F8) ☐ Marl (F10) (LRR U) ☐ Depleted Ochric (F11) (MLRA 151) ☐ Iron-Manganese Masses (F12) (LRR O, P, T) ☐ Umbric Surface (F13) (LRR P, T, U) ☐ Delta Ochric (F17) (MLRA 151) ☐ Reduced Vertic (F18) (MLRA 150A, 150B) ☐ Piedmont Floodplain Soils (F19) (MLRA 149A) ☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)		
Restrictive Layer (if observed): Type: _____ Depth (inches): _____						Hydric Soil Present? Yes <u>X</u> No _____		
Remarks: A positive indication of hydric soil was observed.								

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

DP11

	Absolute % cover	Dominant Species	Indicator Status																													
Tree Stratum (Plot size: 30 ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>10</u> (A) Total Number of Dominant Species Across All Strata: <u>10</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																												
1. <i>Magnolia virginiana</i>	30	Yes	FACW																													
2. <i>Quercus laurifolia</i>	15	Yes	FACW																													
3. <i>Cyrilla racemiflora</i>	5	No	FACW																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	50 = Total Cover																															
50% of total cover:	25	20% of total cover:	10																													
Sapling Stratum (Plot size: 30 ft.)					Prevalence Index Worksheet: <table style="width: 100%;"> <tr> <th colspan="2">Total % Cover of:</th> <th colspan="2">Multiply by:</th> </tr> <tr> <td>OBL species</td> <td><u>40</u></td> <td>x 1 =</td> <td><u>40</u></td> </tr> <tr> <td>FACW species</td> <td><u>68</u></td> <td>x 2 =</td> <td><u>136</u></td> </tr> <tr> <td>FAC species</td> <td><u>24</u></td> <td>x 3 =</td> <td><u>72</u></td> </tr> <tr> <td>FACU species</td> <td><u>0</u></td> <td>x 4 =</td> <td><u>0</u></td> </tr> <tr> <td>UPL species</td> <td><u>0</u></td> <td>x 5 =</td> <td><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>132</u></td> <td>(A)</td> <td><u>248</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>1.88</u>	Total % Cover of:		Multiply by:		OBL species	<u>40</u>	x 1 =	<u>40</u>	FACW species	<u>68</u>	x 2 =	<u>136</u>	FAC species	<u>24</u>	x 3 =	<u>72</u>	FACU species	<u>0</u>	x 4 =	<u>0</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals:	<u>132</u>	(A)
Total % Cover of:		Multiply by:																														
OBL species	<u>40</u>	x 1 =	<u>40</u>																													
FACW species	<u>68</u>	x 2 =	<u>136</u>																													
FAC species	<u>24</u>	x 3 =	<u>72</u>																													
FACU species	<u>0</u>	x 4 =	<u>0</u>																													
UPL species	<u>0</u>	x 5 =	<u>0</u>																													
Column Totals:	<u>132</u>	(A)	<u>248</u> (B)																													
1. <i>Acer rubrum</i>	5	Yes	FAC																													
2. <i>Magnolia virginiana</i>	3	Yes	FACW																													
3. <i>Pinus elliotii</i>	3	Yes	FACW																													
4. <i>Triadica sebifera</i>	3	Yes	FAC																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	14 = Total Cover																															
50% of total cover:	7	20% of total cover:	2.8																													
Shrub Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Indicators: _____ 1 - Rapid Test for Hydrophytic Vegetation ☒ 2 - Dominance Test is >50% ☒ 3 - Prevalence Index is ≤ 3.0 ¹ _____ Problematic Hydrophytic Vegetation ¹ (Explain)																												
1. <i>Morella cerifera</i>	10	Yes	FAC																													
2. <i>Nyssa biflora</i>	2	No	OBL																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	12 = Total Cover																															
50% of total cover:	6	20% of total cover:	2.4																													
Herb Stratum (Plot size: 30 ft.)					Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height.																											
1. <i>Rhynchospora cephalantha</i>	25	Yes	OBL																													
2. <i>Juncus effusus</i>	5	No	OBL																													
3. <i>Pluchea camphorata</i>	5	No	FACW																													
4. <i>Woodwardia areolata</i>	5	No	OBL																													
5. <i>Lachnanthes caroliniana</i>	3	No	OBL																													
6. <i>Vitis rotundifolia</i>	3	No	FAC																													
7. <i>Andropogon mohrii</i>	2	No	FACW																													
8. _____	_____	_____	_____																													
9. _____	_____	_____	_____																													
10. _____	_____	_____	_____																													
11. _____	_____	_____	_____																													
	48 = Total Cover																															
50% of total cover:	24	20% of total cover:	9.6																													
Woody Vine Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____																												
1. <i>Smilax laurifolia</i>	5	Yes	FACW																													
2. <i>Vitis rotundifolia</i>	3	Yes	FAC																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
	8 = Total Cover																															
50% of total cover:	4	20% of total cover:	1.6																													
Remarks: (if observed, list morphological adaptations below). A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).																																

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: _____ Site 1 _____ County: _____ Hancock _____ Sampling Date: _____ July 8, 2022 _____

Applicant/Owner: _____ Hancock County Port & Harbor Commission _____ State: _____ Mississippi _____ Sample Point: _____ DP12 _____

Investigator(s): _____ Savannah R. Morales _____ and _____ Beth Beals _____ Section, Township, Range: _____ Section 30, Township 9S, Range 15W _____

Landform (hillslope, terrace, etc.): _____ Depression _____ Local relief (concave, convex, none): _____ Concave _____ Slope (%): _____ 0-5 _____

Subregion (LRR or MLRA): _____ MLRA 152A, LRR T _____ Lat: _____ 30.23042 _____ Long: _____ -89.54074 _____ Datum: _____ WGS84 _____

Soil Map Unit Name: _____ Harleston fine sandy loam, 0-2% slopes _____ NWI Classification: _____ PSS1B _____

Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) _____ Yes _____ (if no, explain in Remarks.) _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ X _____ No _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ naturally problematic? (If needed, explain any answers in Remarks.) _____

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?	Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u>	No _____		
Wetland Hydrology Present?	Yes <u>X</u>	No _____		
Remarks: This point was determined to be within a wetland due to the presence of all three wetland criteria.				

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)			
☐ High Water Table (A2)	☐ Marl Deposits (B15) (LRR U)	☐ Sparsely Vegetated Concave Surface (B8)			
☒ Saturation (A3)	☐ Hydrogen Sulfide Odor (C1)	☐ Drainage Patterns (B10)			
☒ Water Marks (B1)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Moss Trim Lines (B16)			
☐ Sediment Deposits (B2)	☐ Presence of Reduced Iron (C4)	☐ Dry-Season Water Table (C2)			
☐ Drift Deposits (B3)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Crayfish Burrows (C8)			
☒ Algal Mat or Crust (B4)	☐ Thin Muck Surface (C7)	☐ Saturation Visible on Aerial Imagery (C9)			
☐ Iron Deposits (B5)	☐ Other (Explain in Remarks)	☒ Geomorphic Position (D2)			
☒ Inundation Visible on Aerial Imagery (B7)		☐ Shallow Aquitard (D3)			
☐ Water-Stained Leaves (B9)		☒ FAC-Neutral Test (D5)			
		☐ Sphagnum moss (D8) (LRR T, U)			
Field Observations:				Wetland Hydrology Present?	
Surface Water Present?	Yes _____ No <u>X</u>	Depth (inches):	<u>N/A</u>	Yes <u>X</u> No _____	
Water Table Present?	Yes _____ No <u>X</u>	Depth (inches):	<u>>16</u>		
Saturation Present?	Yes <u>X</u> No _____	Depth (inches):	<u>0-16</u>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks: A positive indication of wetland hydrology was observed (at least one primary indicator).					

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth (inches)	Matrix		Redox Features			Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	
0-10	10YR 2/1	100					Silt Loam
10-16	10YR 3/1	45	10YR 6/2	5	D	M	Silt Loam
	10YR 4/2	50					
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.							
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)						Indicators for Problematic Hydric Soils³:	
☐ Histosol (A1)	☐ Polyvalue Below Surface (S8) (LRR S, T, U)			☐ 1 cm Muck (A9) (LRR O)			
☐ Histic Epipedon (A2)	☐ Thin Dark Surface (S9) (LRR S, T, U)			☐ 2 cm Muck (A10) (LRR S)			
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (LRR O)			☐ Reduced Vertic (F18) (outside MLRA 150A,B)			
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)			☐ Piedmont Floodplain Soils (F19) (LRR P, S, T)			
☐ Stratified Layers (A5)	☐ Depleted Matrix (F3)			☐ Anomalous Bright Loamy Soils (F20)			
☐ Organic Bodies (A6) (LRR P, T, U)	☐ Redox Dark Surface (F6)			☐ (MLRA 153B)			
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)	☐ Depleted Dark Surface (F7)			☐ Red Parent Material (TF2)			
☐ Muck Presence (A8) (LRR U)	☐ Redox Depressions (F8)			☐ Very Shallow Dark Surface (TF12)			
☐ 1 cm Muck (A9) (LRR P, T)	☐ Marl (F10) (LRR U)			☐ Other (Explain in Remarks)			
☒ Depleted Below Dark Surface (A11)	☐ Depleted Ochric (F11) (MLRA 151)						
☐ Thick Dark Surface (A12)	☐ Iron-Manganese Masses (F12) (LRR O, P, T)						
☐ Coast Prairie Redox (A16) (MLRA 150A)	☒ Umbric Surface (F13) (LRR P, T, U)						
☐ Sandy Mucky Mineral (S1) (LRR O, S)	☐ Delta Ochric (F17) (MLRA 151)						
☐ Sandy Gleyed Matrix (S4)	☐ Reduced Vertic (F18) (MLRA 150A, 150B)						
☐ Sandy Redox (S5)	☐ Piedmont Floodplain Soils (F19) (MLRA 149A)						
☐ Stripped Matrix (S6)	☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)						
☐ Dark Surface (S7) (LRR P, S, T, U)							
Restrictive Layer (if observed):						Hydric Soil Present?	
Type: _____						Yes <u>X</u> No _____	
Depth (inches): _____							
Remarks: A positive indication of hydric soil was observed.							

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: _____ Site 1 _____ County: _____ Hancock _____ Sampling Date: _____ July 9, 2022 _____

Applicant/Owner: _____ Hancock County Port & Harbor Commission _____ State: _____ Mississippi _____ Sample Point: _____ DP13 _____

Investigator(s): _____ Savannah R. Morales _____ and _____ Beth Beals _____ Section, Township, Range: _____ Section 30, Township 9S, Range 15W _____

Landform (hillslope, terrace, etc.): _____ Hummocked Plain _____ Local relief (concave, convex, none): _____ None _____ Slope (%): _____ 0-5 _____

Subregion (LRR or MLRA): _____ MLRA 152A, LRR T _____ Lat: _____ 30.23149 _____ Long: _____ -89.53837 _____ Datum: _____ WGS84 _____

Soil Map Unit Name: _____ Harleston fine sandy loam, 0-2% slopes _____ NWI Classification: _____ None _____

Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) _____ Yes _____ (if no, explain in Remarks.) _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ X _____ No _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ naturally problematic? (If needed, explain any answers in Remarks.) _____

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>	
Wetland Hydrology Present?	Yes _____	No <u>X</u>	
Remarks: This point was determined not to be within a wetland due to the lack of hydric soils and wetland hydrology.			

HYDROLOGY

Wetland hydrology indicators: Primary Indicators (minimum of one is required; check all that apply)				Secondary Indicators (minimum of two required)			
☐ Surface Water (A1) ☐ High Water Table (A2) ☐ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B2) ☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial Imagery (B7) ☐ Water-Stained Leaves (B9)	☐ Aquatic Fauna (B13) ☐ Marl Deposits (B15) (LRR U) ☐ Hydrogen Sulfide Odor (C1) ☐ Oxidized Rhizospheres on Living Roots (C3) ☐ Presence of Reduced Iron (C4) ☐ Recent Iron Reduction in Tilled Soils (C6) ☐ Thin Muck Surface (C7) ☐ Other (Explain in Remarks)	☐ Surface Soil Cracks (B6) ☐ Sparsely Vegetated Concave Surface (B8) ☐ Drainage Patterns (B10) ☐ Moss Trim Lines (B16) ☐ Dry-Season Water Table (C2) ☐ Crayfish Burrows (C8) ☐ Saturation Visible on Aerial Imagery (C9) ☐ Geomorphic Position (D2) ☐ Shallow Aquitard (D3) ☒ FAC-Neutral Test (D5) ☐ Sphagnum moss (D8) (LRR T, U)					
Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): <u>N/A</u> Water Table Present? Yes _____ No <u>X</u> Depth (inches): <u>N/A</u> Saturation Present? Yes _____ No <u>X</u> Depth (inches): <u>N/A</u>				Wetland Hydrology Present? Yes _____ No <u>X</u>			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks: No positive indication of wetland hydrology was observed.							

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)														
Depth (inches)	Matrix		Redox Features				Texture	Remarks						
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²								
0-16	10YR 3/1	95					Sandy Loam							
	10YR 3/2	5												
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.														
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)						Indicators for Problematic Hydric Soils³:								
☐ Histosol (A1) ☐ Histic Epipedon (A2) ☐ Black Histic (A3) ☐ Hydrogen Sulfide (A4) ☐ Stratified Layers (A5) ☐ Organic Bodies (A6) (LRR P, T, U) ☐ 5 cm Mucky Mineral (A7) (LRR P, T, U) ☐ Muck Presence (A8) (LRR U) ☐ 1 cm Muck (A9) (LRR P, T) ☐ Depleted Below Dark Surface (A11) ☐ Thick Dark Surface (A12) ☐ Coast Prairie Redox (A16) (MLRA 150A) ☐ Sandy Mucky Mineral (S1) (LRR O, S) ☐ Sandy Gleyed Matrix (S4) ☐ Sandy Redox (S5) ☐ Stripped Matrix (S6) ☐ Dark Surface (S7) (LRR P, S, T, U)						☐ Polyvalue Below Surface (S8) (LRR S, T, U) ☐ Thin Dark Surface (S9) (LRR S, T, U) ☐ Loamy Mucky Mineral (F1) (LRR O) ☐ Loamy Gleyed Matrix (F2) ☐ Depleted Matrix (F3) ☐ Redox Dark Surface (F6) ☐ Depleted Dark Surface (F7) ☐ Redox Depressions (F8) ☐ Marl (F10) (LRR U) ☐ Depleted Ochric (F11) (MLRA 151) ☐ Iron-Manganese Masses (F12) (LRR O, P, T) ☐ Umbric Surface (F13) (LRR P, T, U) ☐ Delta Ochric (F17) (MLRA 151) ☐ Reduced Vertic (F18) (MLRA 150A, 150B) ☐ Piedmont Floodplain Soils (F19) (MLRA 149A) ☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)						☐ 1 cm Muck (A9) (LRR O) ☐ 2 cm Muck (A10) (LRR S) ☐ Reduced Vertic (F18) (outside MLRA 150A,B) ☐ Piedmont Floodplain Soils (F19) (LRR P, S, T) ☐ Anomalous Bright Loamy Soils (F20) ☐ (MLRA 153B) ☐ Red Parent Material (TF2) ☐ Very Shallow Dark Surface (TF12) ☐ Other (Explain in Remarks)		
³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.														
Restrictive Layer (if observed): Type: _____ Depth (inches): _____							Hydric Soil Present? Yes _____ No <u>X</u>							
Remarks: No positive indication of hydric soils was observed.														

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

DP13

	Absolute % cover	Dominant Species	Indicator Status																													
Tree Stratum (Plot size: 30 ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>10</u> (A) Total Number of Dominant Species Across All Strata: <u>10</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																												
1. <i>Quercus nigra</i>	40	Yes	FAC																													
2. <i>Nyssa sylvatica</i>	25	Yes	FAC																													
3. <i>Acer rubrum</i>	10	No	FAC																													
4. <i>Pinus elliotii</i>	5	No	FACW																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	80 = Total Cover																															
50% of total cover:	40	20% of total cover:	16																													
Sapling Stratum (Plot size: 30 ft.)					Prevalence Index Worksheet: <table style="width: 100%;"> <tr> <td colspan="2">Total % Cover of:</td> <td colspan="2">Multiply by:</td> </tr> <tr> <td>OBL species</td> <td><u>0</u></td> <td>x 1 =</td> <td><u>0</u></td> </tr> <tr> <td>FACW species</td> <td><u>10</u></td> <td>x 2 =</td> <td><u>20</u></td> </tr> <tr> <td>FAC species</td> <td><u>177</u></td> <td>x 3 =</td> <td><u>531</u></td> </tr> <tr> <td>FACU species</td> <td><u>0</u></td> <td>x 4 =</td> <td><u>0</u></td> </tr> <tr> <td>UPL species</td> <td><u>0</u></td> <td>x 5 =</td> <td><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>187</u></td> <td>(A)</td> <td><u>551</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>2.95</u>	Total % Cover of:		Multiply by:		OBL species	<u>0</u>	x 1 =	<u>0</u>	FACW species	<u>10</u>	x 2 =	<u>20</u>	FAC species	<u>177</u>	x 3 =	<u>531</u>	FACU species	<u>0</u>	x 4 =	<u>0</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals:	<u>187</u>	(A)
Total % Cover of:		Multiply by:																														
OBL species	<u>0</u>	x 1 =	<u>0</u>																													
FACW species	<u>10</u>	x 2 =	<u>20</u>																													
FAC species	<u>177</u>	x 3 =	<u>531</u>																													
FACU species	<u>0</u>	x 4 =	<u>0</u>																													
UPL species	<u>0</u>	x 5 =	<u>0</u>																													
Column Totals:	<u>187</u>	(A)	<u>551</u> (B)																													
1. <i>Acer rubrum</i>	5	Yes	FAC																													
2. <i>Morella cerifera</i>	5	Yes	FAC																													
3. <i>Pinus elliotii</i>	5	Yes	FACW																													
4. <i>Diospyros virginiana</i>	5	Yes	FAC																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	20 = Total Cover																															
50% of total cover:	10	20% of total cover:	4																													
Shrub Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Indicators: _____ 1 - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u>X</u> 3 - Prevalence Index is ≤ 3.0 ¹ _____ Problematic Hydrophytic Vegetation ¹ (Explain)																												
1. <i>Ilex vomitoria</i>	15	Yes	FAC																													
2. _____	_____	_____	_____																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	15 = Total Cover																															
50% of total cover:	7.5	20% of total cover:	3																													
Herb Stratum (Plot size: 30 ft.)					Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height.																											
1. <i>Toxicodendron radicans</i>	30	Yes	FAC																													
2. <i>Morella cerifera</i>	10	No	FAC																													
3. <i>Nyssa sylvatica</i>	5	No	FAC																													
4. <i>Ilex vomitoria</i>	5	No	FAC																													
5. <i>Triadica sebifera</i>	5	No	FAC																													
6. _____	_____	_____	_____																													
7. _____	_____	_____	_____																													
8. _____	_____	_____	_____																													
9. _____	_____	_____	_____																													
10. _____	_____	_____	_____																													
11. _____	_____	_____	_____																													
	55 = Total Cover																															
50% of total cover:	27.5	20% of total cover:	11																													
Woody Vine Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____																												
1. <i>Toxicodendron radicans</i>	10	Yes	FAC																													
2. <i>Smilax rotundifolia</i>	5	Yes	FAC																													
3. <i>Vitis rotundifolia</i>	2	No	FAC																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
	17 = Total Cover																															
50% of total cover:	8.5	20% of total cover:	3.4																													
Remarks: (if observed, list morphological adaptations below). A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).																																

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site:	Site 1	County:	Hancock	Sampling Date:	July 15, 2022
Applicant/Owner:	Hancock County Port & Harbor Commission	State:	Mississippi	Sample Point:	DP14
Investigator(s):	Savannah R. Morales and Beth Beals	Section, Township, Range:	Section 25, Township 9S, Range 16W		
Landform (hillslope, terrace, etc.):	Flat	Local relief (concave, convex, none):	None	Slope (%):	0-5
Subregion (LRR or MLRA):	MLRA 152A, LRR T	Lat:	30.23455	Long:	-89.55622
Soil Map Unit Name:	Smithon fine sandy loam, FF, 0-2% slopes	Datum:	WGS84	NWI Classification:	None
Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) Yes (if no, explain in Remarks.)					
Are Vegetation	No	Soil	No	or Hydrology	No significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation	No	Soil	No	or Hydrology	No naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No	Is the Sampled Area within a Wetland? Yes No X
Hydric Soil Present?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	
Remarks: This point was determined not to be within a wetland due to the lack of hydric soils and wetland hydrology.			

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)		☐ Moss Trim Lines (B16)			
☐ Saturation (A3)	☐ Hydrogen Sulfide Odor (C1)	☐ Dry-Season Water Table (C2)		☐ Crayfish Burrows (C8)			
☐ Water Marks (B1)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Saturation Visible on Aerial Imagery (C9)		☐ Geomorphic Position (D2)			
☐ Sediment Deposits (B2)	☐ Presence of Reduced Iron (C4)	☐ Shallow Aquitard (D3)		☒ FAC-Neutral Test (D5)			
☐ Drift Deposits (B3)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Sphagnum moss (D8) (LRR T, U)					
☐ Algal Mat or Crust (B4)	☐ Thin Muck Surface (C7)						
☐ Iron Deposits (B5)	☐ Other (Explain in Remarks)						
☐ Inundation Visible on Aerial Imagery (B7)							
☐ Water-Stained Leaves (B9)							
Field Observations:				Wetland Hydrology Present? Yes No X			
Surface Water Present?	Yes No X	Depth (inches):	N/A				
Water Table Present?	Yes No X	Depth (inches):	N/A				
Saturation Present?	Yes No X	Depth (inches):	N/A				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks: No positive indication of wetland hydrology was observed.							

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	10YR 3/2	100					Sandy Loam	
4-16	10YR 4/6	100					Sandy Loam	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.								
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)						Indicators for Problematic Hydric Soils³:		
☐ Histosol (A1)			☐ Polyvalue Below Surface (S8) (LRR S, T, U)			☐ 1 cm Muck (A9) (LRR O)		
☐ Histic Epipedon (A2)			☐ Thin Dark Surface (S9) (LRR S, T, U)			☐ 2 cm Muck (A10) (LRR S)		
☐ Black Histic (A3)			☐ Loamy Mucky Mineral (F1) (LRR O)			☐ Reduced Vertic (F18) (outside MLRA 150A,B)		
☐ Hydrogen Sulfide (A4)			☐ Loamy Gleyed Matrix (F2)			☐ Piedmont Floodplain Soils (F19) (LRR P, S, T)		
☐ Stratified Layers (A5)			☐ Depleted Matrix (F3)			☐ Anomalous Bright Loamy Soils (F20)		
☐ Organic Bodies (A6) (LRR P, T, U)			☐ Redox Dark Surface (F6)			☐ (MLRA 153B)		
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)			☐ Depleted Dark Surface (F7)			☐ Red Parent Material (TF2)		
☐ Muck Presence (A8) (LRR U)			☐ Redox Depressions (F8)			☐ Very Shallow Dark Surface (TF12)		
☐ 1 cm Muck (A9) (LRR P, T)			☐ Marl (F10) (LRR U)			☐ Other (Explain in Remarks)		
☐ Depleted Below Dark Surface (A11)			☐ Depleted Ochric (F11) (MLRA 151)					
☐ Thick Dark Surface (A12)			☐ Iron-Manganese Masses (F12) (LRR O, P, T)					
☐ Coast Prairie Redox (A16) (MLRA 150A)			☐ Umbric Surface (F13) (LRR P, T, U)					
☐ Sandy Mucky Mineral (S1) (LRR O, S)			☐ Delta Ochric (F17) (MLRA 151)					
☐ Sandy Gleyed Matrix (S4)			☐ Reduced Vertic (F18) (MLRA 150A, 150B)					
☐ Sandy Redox (S5)			☐ Piedmont Floodplain Soils (F19) (MLRA 149A)					
☐ Stripped Matrix (S6)			☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)					
☐ Dark Surface (S7) (LRR P, S, T, U)								
Restrictive Layer (if observed):						Hydric Soil Present? Yes No X		
Type: _____								
Depth (inches): _____								
Remarks: No positive indication of hydric soils was observed.								

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

DP14

	Absolute % cover	Dominant Species	Indicator Status																													
Tree Stratum (Plot size: <u>30</u> ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>9</u> (A) Total Number of Dominant Species Across All Strata: <u>9</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																												
1. <i>Quercus nigra</i>	40	Yes	FAC																													
2. <i>Nyssa sylvatica</i>	20	Yes	FAC																													
3. <i>Magnolia grandiflora</i>	15	No	FAC																													
4. <i>Quercus virginiana</i>	10	No	FACU																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	85 = Total Cover																															
50% of total cover:	42.5	20% of total cover:	17																													
Sapling Stratum (Plot size: <u>30</u> ft.)					Prevalence Index Worksheet: <table style="width: 100%;"> <tr> <th colspan="2">Total % Cover of:</th> <th colspan="2">Multiply by:</th> </tr> <tr> <td>OBL species</td> <td><u>0</u></td> <td>x 1 =</td> <td><u>0</u></td> </tr> <tr> <td>FACW species</td> <td><u>2</u></td> <td>x 2 =</td> <td><u>4</u></td> </tr> <tr> <td>FAC species</td> <td><u>133</u></td> <td>x 3 =</td> <td><u>399</u></td> </tr> <tr> <td>FACU species</td> <td><u>10</u></td> <td>x 4 =</td> <td><u>40</u></td> </tr> <tr> <td>UPL species</td> <td><u>0</u></td> <td>x 5 =</td> <td><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>145</u></td> <td>(A)</td> <td><u>443</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>3.06</u>	Total % Cover of:		Multiply by:		OBL species	<u>0</u>	x 1 =	<u>0</u>	FACW species	<u>2</u>	x 2 =	<u>4</u>	FAC species	<u>133</u>	x 3 =	<u>399</u>	FACU species	<u>10</u>	x 4 =	<u>40</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals:	<u>145</u>	(A)
Total % Cover of:		Multiply by:																														
OBL species	<u>0</u>	x 1 =	<u>0</u>																													
FACW species	<u>2</u>	x 2 =	<u>4</u>																													
FAC species	<u>133</u>	x 3 =	<u>399</u>																													
FACU species	<u>10</u>	x 4 =	<u>40</u>																													
UPL species	<u>0</u>	x 5 =	<u>0</u>																													
Column Totals:	<u>145</u>	(A)	<u>443</u> (B)																													
1. <i>Quercus nigra</i>	15	Yes	FAC																													
2. <i>Ilex opaca</i>	8	Yes	FAC																													
3. <i>Symplocos tinctoria</i>	5	No	FAC																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	28 = Total Cover																															
50% of total cover:	14	20% of total cover:	5.6																													
Shrub Stratum (Plot size: <u>30</u> ft.)				Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> X </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤ 3.0 ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)																												
1. <i>Symplocos tinctoria</i>	5	Yes	FAC																													
2. <i>Persea borbonia</i>	2	Yes	FACW																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	7 = Total Cover																															
50% of total cover:	3.5	20% of total cover:	1.4																													
Herb Stratum (Plot size: <u>30</u> ft.)					Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height.																											
1. <i>Ilex vomitoria</i>	10	Yes	FAC																													
2. <i>Symplocos tinctoria</i>	8	Yes	FAC																													
3. <i>Chasmanthium sessiliflorum</i>	5	Yes	FAC																													
4. <i>Smilax bona-nox</i>	2	No	FAC																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
7. _____	_____	_____	_____																													
8. _____	_____	_____	_____																													
9. _____	_____	_____	_____																													
10. _____	_____	_____	_____																													
11. _____	_____	_____	_____																													
	25 = Total Cover																															
50% of total cover:	12.5	20% of total cover:	5																													
Woody Vine Stratum (Plot size: <u>30</u> ft.)				Hydrophytic Vegetation Present? Yes <u> X </u> No <u> </u>																												
1. <i>None Observed</i>																																
2. _____	_____	_____	_____																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
	_____ = Total Cover																															
50% of total cover:	_____	20% of total cover:	_____																													
Remarks: (if observed, list morphological adaptations below). A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).																																

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: _____ Site 1 _____ County: _____ Hancock _____ Sampling Date: _____ July 13, 2022 _____

Applicant/Owner: _____ Hancock County Port & Harbor Commission _____ State: _____ Mississippi _____ Sample Point: _____ DP15 _____

Investigator(s): _____ Savannah R. Morales _____ and _____ Beth Beals _____ Section, Township, Range: _____ Section 25, Township 9S, Range 16W _____

Landform (hillslope, terrace, etc.): _____ Concave _____ Local relief (concave, convex, none): _____ None _____ Slope (%): _____ 0-5 _____

Subregion (LRR or MLRA): _____ MLRA 152A, LRR T _____ Lat: _____ 30.23363 _____ Long: _____ -89.55518 _____ Datum: _____ WGS84 _____

Soil Map Unit Name: _____ Smithon fine sandy loam, FF, 0-2% slopes _____ NWI Classification: _____ None _____

Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) _____ Yes _____ (if no, explain in Remarks.) _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ X _____ No _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ naturally problematic? (If needed, explain any answers in Remarks.) _____

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☒	No _____	Is the Sampled Area within a Wetland?	Yes ☒	No _____
Hydric Soil Present?	Yes ☒	No _____			
Wetland Hydrology Present?	Yes ☒	No _____			
Remarks: This point was determined to be within a wetland due to the presence of all three wetland criteria.					

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)	
☐ High Water Table (A2)	☐ Marl Deposits (B15) (LRR U)			☒ Sparsely Vegetated Concave Surface (B8)	
☐ Saturation (A3)	☐ Hydrogen Sulfide Odor (C1)			☐ Drainage Patterns (B10)	
☐ Water Marks (B1)	☒ Oxidized Rhizospheres on Living Roots (C3)			☐ Moss Trim Lines (B16)	
☐ Sediment Deposits (B2)	☐ Presence of Reduced Iron (C4)			☐ Dry-Season Water Table (C2)	
☐ Drift Deposits (B3)	☐ Recent Iron Reduction in Tilled Soils (C6)			☒ Crayfish Burrows (C8)	
☐ Algal Mat or Crust (B4)	☐ Thin Muck Surface (C7)			☒ Saturation Visible on Aerial Imagery (C9)	
☐ Iron Deposits (B5)	☐ Other (Explain in Remarks)			☒ Geomorphic Position (D2)	
☐ Inundation Visible on Aerial Imagery (B7)				☐ Shallow Aquitard (D3)	
☐ Water-Stained Leaves (B9)				☒ FAC-Neutral Test (D5)	
				☐ Sphagnum moss (D8) (LRR T, U)	
Field Observations:				Wetland Hydrology Present?	
Surface Water Present?	Yes _____ No ☒	Depth (inches):	N/A	Yes ☒	No _____
Water Table Present?	Yes _____ No ☒	Depth (inches):	N/A		
Saturation Present?	Yes _____ No ☒	Depth (inches):	N/A		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks: A positive indication of wetland hydrology was observed (at least one primary indicator).					

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth (inches)	Matrix		Redox Features			Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	
0-6	10YR 4/1	90	10YR 7/1	10	D	M	Sandy loam
6-16	10YR 4/1	60	10YR 5/8	5	C	M	Sandy Loam
			10YR 7/1	35	D	M	Sandy Loam
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.							
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)				Indicators for Problematic Hydric Soils³:			
☐ Histosol (A1)	☐ Polyvalue Below Surface (S8) (LRR S, T, U)			☐ 1 cm Muck (A9) (LRR O)			
☐ Histic Epipedon (A2)	☐ Thin Dark Surface (S9) (LRR S, T, U)			☐ 2 cm Muck (A10) (LRR S)			
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (LRR O)			☐ Reduced Vertic (F18) (outside MLRA 150A,B)			
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)			☐ Piedmont Floodplain Soils (F19) (LRR P, S, T)			
☐ Stratified Layers (A5)	☐ Depleted Matrix (F3)			☐ Anomalous Bright Loamy Soils (F20)			
☐ Organic Bodies (A6) (LRR P, T, U)	☐ Redox Dark Surface (F6)			☐ (MLRA 153B)			
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)	☐ Depleted Dark Surface (F7)			☐ Red Parent Material (TF2)			
☐ Muck Presence (A8) (LRR U)	☐ Redox Depressions (F8)			☐ Very Shallow Dark Surface (TF12)			
☐ 1 cm Muck (A9) (LRR P, T)	☐ Marl (F10) (LRR U)			☐ Other (Explain in Remarks)			
☐ Depleted Below Dark Surface (A11)	☐ Depleted Ochric (F11) (MLRA 151)						
☐ Thick Dark Surface (A12)	☐ Iron-Manganese Masses (F12) (LRR O, P, T)						
☐ Coast Prairie Redox (A16) (MLRA 150A)	☐ Umbric Surface (F13) (LRR P, T, U)						
☐ Sandy Mucky Mineral (S1) (LRR O, S)	☐ Delta Ochric (F17) (MLRA 151)						
☐ Sandy Gleyed Matrix (S4)	☐ Reduced Vertic (F18) (MLRA 150A, 150B)						
☒ Sandy Redox (S5)	☐ Piedmont Floodplain Soils (F19) (MLRA 149A)						
☐ Stripped Matrix (S6)	☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)						
☐ Dark Surface (S7) (LRR P, S, T, U)							
Restrictive Layer (if observed):				Hydric Soil Present?			
Type: _____				Yes ☒ No _____			
Depth (inches): _____							
Remarks: A positive indication of hydric soil was observed.							

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

DP15

	Absolute % cover	Dominant Species	Indicator Status																													
Tree Stratum (Plot size: 30 ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>10</u> (A) Total Number of Dominant Species Across All Strata: <u>10</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																												
1. <i>Pinus elliotii</i>	30	Yes	FACW																													
2. <i>Magnolia virginiana</i>	20	Yes	FACW																													
3. <i>Quercus virginiana</i>	15	No	FACU																													
4. <i>Quercus nigra</i>	10	No	FAC																													
5. <i>Nyssa sylvatica</i>	5	No	FAC																													
6. _____																																
	80	= Total Cover																														
50% of total cover:	40	20% of total cover:	16																													
Sapling Stratum (Plot size: 30 ft.)					Prevalence Index Worksheet: <table style="width: 100%;"> <tr> <th colspan="2">Total % Cover of:</th> <th colspan="2">Multiply by:</th> </tr> <tr> <td>OBL species</td> <td>30</td> <td>x 1 =</td> <td>30</td> </tr> <tr> <td>FACW species</td> <td>113</td> <td>x 2 =</td> <td>226</td> </tr> <tr> <td>FAC species</td> <td>37</td> <td>x 3 =</td> <td>111</td> </tr> <tr> <td>FACU species</td> <td>15</td> <td>x 4 =</td> <td>60</td> </tr> <tr> <td>UPL species</td> <td>0</td> <td>x 5 =</td> <td>0</td> </tr> <tr> <td>Column Totals:</td> <td>195</td> <td>(A)</td> <td>427 (B)</td> </tr> </table> Prevalence Index = B/A = <u>2.19</u>	Total % Cover of:		Multiply by:		OBL species	30	x 1 =	30	FACW species	113	x 2 =	226	FAC species	37	x 3 =	111	FACU species	15	x 4 =	60	UPL species	0	x 5 =	0	Column Totals:	195	(A)
Total % Cover of:		Multiply by:																														
OBL species	30	x 1 =	30																													
FACW species	113	x 2 =	226																													
FAC species	37	x 3 =	111																													
FACU species	15	x 4 =	60																													
UPL species	0	x 5 =	0																													
Column Totals:	195	(A)	427 (B)																													
1. <i>Pinus elliotii</i>	10	Yes	FACW																													
2. <i>Magnolia virginiana</i>	10	Yes	FACW																													
3. _____																																
4. _____																																
5. _____																																
6. _____																																
	20	= Total Cover																														
50% of total cover:	10	20% of total cover:	4																													
Shrub Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Indicators: _____ 1 - Rapid Test for Hydrophytic Vegetation ☒ 2 - Dominance Test is >50% ☒ 3 - Prevalence Index is ≤ 3.0 ¹ _____ Problematic Hydrophytic Vegetation ¹ (Explain)																												
1. <i>Nyssa sylvatica</i>	15	Yes	FAC																													
2. <i>Pinus elliotii</i>	10	Yes	FACW																													
3. <i>Rhododendron viscosum</i>	5	No	OBL																													
4. _____																																
5. _____																																
6. _____																																
	30	= Total Cover																														
50% of total cover:	15	20% of total cover:	6																													
Herb Stratum (Plot size: 30 ft.)					Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height.																											
1. <i>Carex glaucescens</i>	15	Yes	OBL																													
2. <i>Andropogon mohrii</i>	15	Yes	FACW																													
3. <i>Lachnanthes caroliniana</i>	10	Yes	OBL																													
4. <i>Rhynchospora elliotii</i>	10	Yes	FACW																													
5. <i>Rhexia mariana</i>	5	No	FACW																													
6. <i>Dichanthelium acuminatum</i>	5	No	FAC																													
7. <i>Pinus elliotii</i>	3	No	FACW																													
8. <i>Smilax rotundifolia</i>	2	No	FAC																													
9. _____																																
10. _____																																
11. _____																																
	65	= Total Cover																														
50% of total cover:	32.5	20% of total cover:	13																													
Woody Vine Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____																												
1. <i>None Observed</i>																																
2. _____																																
3. _____																																
4. _____																																
5. _____																																
		= Total Cover																														
50% of total cover:		20% of total cover:																														
Remarks: (if observed, list morphological adaptations below). A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).																																

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: _____ Site 1 _____ County: _____ Hancock _____ Sampling Date: _____ July 13, 2022 _____

Applicant/Owner: _____ Hancock County Port & Harbor Commission _____ State: _____ Mississippi _____ Sample Point: _____ DP16 _____

Investigator(s): _____ Savannah R. Morales _____ and _____ Beth Beals _____ Section, Township, Range: _____ Section 25, Township 9S, Range 16W _____

Landform (hillslope, terrace, etc.): _____ Hummocked Plain _____ Local relief (concave, convex, none): _____ None _____ Slope (%): _____ 0-5 _____

Subregion (LRR or MLRA): _____ MLRA 152A, LRR T _____ Lat: _____ 30.23080 _____ Long: _____ -89.55225 _____ Datum: _____ WGS84 _____

Soil Map Unit Name: _____ Ocilla loamy sand, 0-2% slopes _____ NWI Classification: _____ None _____

Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) _____ Yes _____ (if no, explain in Remarks.) _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ X _____ No _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ naturally problematic? (If needed, explain any answers in Remarks.) _____

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u>	No _____	
Wetland Hydrology Present?	Yes <u>X</u>	No _____	
Remarks: This point was determined to be within a wetland due to the presence of all three wetland criteria.			

HYDROLOGY

Wetland hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)				Secondary Indicators (minimum of two required)			
☐ Surface Water (A1) ☐ High Water Table (A2) ☒ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B2) ☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial Imagery (B7) ☐ Water-Stained Leaves (B9)	☐ Aquatic Fauna (B13) ☐ Marl Deposits (B15) (LRR U) ☐ Hydrogen Sulfide Odor (C1) ☐ Oxidized Rhizospheres on Living Roots (C3) ☐ Presence of Reduced Iron (C4) ☐ Recent Iron Reduction in Tilled Soils (C6) ☐ Thin Muck Surface (C7) ☐ Other (Explain in Remarks)	☐ Surface Soil Cracks (B6) ☐ Sparsely Vegetated Concave Surface (B8) ☐ Drainage Patterns (B10) ☐ Moss Trim Lines (B16) ☐ Dry-Season Water Table (C2) ☐ Crayfish Burrows (C8) ☐ Saturation Visible on Aerial Imagery (C9) ☐ Geomorphic Position (D2) ☐ Shallow Aquitard (D3) ☒ FAC-Neutral Test (D5) ☐ Sphagnum moss (D8) (LRR T, U)					
Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): <u>N/A</u> Water Table Present? Yes _____ No <u>X</u> Depth (inches): <u>>16</u> Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>5-16</u>				Wetland Hydrology Present? Yes <u>X</u> No _____			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks: A positive indication of wetland hydrology was observed (at least one primary indicator).							

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth (inches)	Matrix		Redox Features				Texture	Remarks	
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²			
0-5	10YR 2/1	95					Sandy Loam	Organic masking	
	10YR 4/2	5							
5-16	10YR 6/2	52	10YR 6/6	8	C	M	Sandy Loam		
	10YR 4/1	35							
	10YR 2/1	5							
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix.									
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)						Indicators for Problematic Hydric Soils³:			
☐ Histosol (A1) ☐ Histic Epipedon (A2) ☐ Black Histic (A3) ☐ Hydrogen Sulfide (A4) ☐ Stratified Layers (A5) ☐ Organic Bodies (A6) (LRR P, T, U) ☐ 5 cm Mucky Mineral (A7) (LRR P, T, U) ☐ Muck Presence (A8) (LRR U) ☐ 1 cm Muck (A9) (LRR P, T) ☐ Depleted Below Dark Surface (A11) ☐ Thick Dark Surface (A12) ☐ Coast Prairie Redox (A16) (MLRA 150A) ☐ Sandy Mucky Mineral (S1) (LRR O, S) ☐ Sandy Gleyed Matrix (S4) ☐ Sandy Redox (S5) ☒ Stripped Matrix (S6) ☐ Dark Surface (S7) (LRR P, S, T, U)			☒ Polyvalue Below Surface (S8) (LRR S, T, U) ☐ Thin Dark Surface (S9) (LRR S, T, U) ☐ Loamy Mucky Mineral (F1) (LRR O) ☐ Loamy Gleyed Matrix (F2) ☐ Depleted Matrix (F3) ☐ Redox Dark Surface (F6) ☐ Depleted Dark Surface (F7) ☐ Redox Depressions (F8) ☐ Marl (F10) (LRR U) ☐ Depleted Ochric (F11) (MLRA 151) ☐ Iron-Manganese Masses (F12) (LRR O, P, T) ☐ Umbric Surface (F13) (LRR P, T, U) ☐ Delta Ochric (F17) (MLRA 151) ☐ Reduced Vertic (F18) (MLRA 150A, 150B) ☐ Piedmont Floodplain Soils (F19) (MLRA 149A) ☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)			☐ 1 cm Muck (A9) (LRR O) ☐ 2 cm Muck (A10) (LRR S) ☐ Reduced Vertic (F18) (outside MLRA 150A,B) ☐ Piedmont Floodplain Soils (F19) (LRR P, S, T) ☐ Anomalous Bright Loamy Soils (F20) ☐ (MLRA 153B) ☐ Red Parent Material (TF2) ☐ Very Shallow Dark Surface (TF12) ☐ Other (Explain in Remarks)			
³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.									
Restrictive Layer (if observed): Type: _____ Depth (inches): _____							Hydric Soil Present? Yes <u>X</u> No _____		
Remarks: A positive indication of hydric soil was observed.									

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

DP16

	Absolute % cover	Dominant Species	Indicator Status																													
<u>Tree Stratum</u> (Plot size: <u>30</u> ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																												
1. <i>Magnolia virginiana</i>	15	Yes	FACW																													
2. <i>Nyssa sylvatica</i>	5	Yes	FAC																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	20 = Total Cover																															
50% of total cover: <u>10</u>		20% of total cover: <u>4</u>																														
<u>Sapling Stratum</u> (Plot size: <u>30</u> ft.)					Prevalence Index Worksheet: <table style="width: 100%;"> <tr> <th colspan="2">Total % Cover of:</th> <th colspan="2">Multiply by:</th> </tr> <tr> <td>OBL species</td> <td><u>0</u></td> <td>x 1 =</td> <td><u>0</u></td> </tr> <tr> <td>FACW species</td> <td><u>165</u></td> <td>x 2 =</td> <td><u>330</u></td> </tr> <tr> <td>FAC species</td> <td><u>12</u></td> <td>x 3 =</td> <td><u>36</u></td> </tr> <tr> <td>FACU species</td> <td><u>0</u></td> <td>x 4 =</td> <td><u>0</u></td> </tr> <tr> <td>UPL species</td> <td><u>0</u></td> <td>x 5 =</td> <td><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>177</u></td> <td>(A)</td> <td><u>366</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>2.07</u>	Total % Cover of:		Multiply by:		OBL species	<u>0</u>	x 1 =	<u>0</u>	FACW species	<u>165</u>	x 2 =	<u>330</u>	FAC species	<u>12</u>	x 3 =	<u>36</u>	FACU species	<u>0</u>	x 4 =	<u>0</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals:	<u>177</u>	(A)
Total % Cover of:		Multiply by:																														
OBL species	<u>0</u>	x 1 =	<u>0</u>																													
FACW species	<u>165</u>	x 2 =	<u>330</u>																													
FAC species	<u>12</u>	x 3 =	<u>36</u>																													
FACU species	<u>0</u>	x 4 =	<u>0</u>																													
UPL species	<u>0</u>	x 5 =	<u>0</u>																													
Column Totals:	<u>177</u>	(A)	<u>366</u> (B)																													
1. <i>Ilex coriacea</i>	25	Yes	FACW																													
2. <i>Magnolia virginiana</i>	8	Yes	FACW																													
3. <i>Morella cerifera</i>	5	No	FAC																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	38 = Total Cover																															
50% of total cover: <u>19</u>		20% of total cover: <u>7.6</u>																														
<u>Shrub Stratum</u> (Plot size: <u>30</u> ft.)				Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> X </u> 2 - Dominance Test is >50% <u> X </u> 3 - Prevalence Index is ≤ 3.0 ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)																												
1. <i>Magnolia virginiana</i>	7	Yes	FACW																													
2. _____	_____	_____	_____																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	7 = Total Cover																															
50% of total cover: <u>3.5</u>		20% of total cover: <u>1.4</u>																														
<u>Herb Stratum</u> (Plot size: <u>30</u> ft.)					Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height.																											
1. <i>Lyonia lucida</i>	110	Yes	FACW																													
2. <i>Ilex vomitoria</i>	2	No	FAC																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
7. _____	_____	_____	_____																													
8. _____	_____	_____	_____																													
9. _____	_____	_____	_____																													
10. _____	_____	_____	_____																													
11. _____	_____	_____	_____																													
	112 = Total Cover																															
50% of total cover: <u>56</u>		20% of total cover: <u>22.4</u>																														
<u>Woody Vine Stratum</u> (Plot size: <u>30</u> ft.)				Hydrophytic Vegetation Present? Yes <u> X </u> No <u> </u>																												
1. <i>None Observed</i>																																
2. _____	_____	_____	_____																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
	_____ = Total Cover																															
50% of total cover: _____		20% of total cover: _____																														

Remarks: (if observed, list morphological adaptations below).

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: _____ Site 1 _____ County: _____ Hancock _____ Sampling Date: _____ July 13, 2022 _____

Applicant/Owner: _____ Hancock County Port & Harbor Commission _____ State: _____ Mississippi _____ Sample Point: _____ DP17 _____

Investigator(s): _____ Savannah R. Morales _____ and _____ Beth Beals _____ Section, Township, Range: _____ Section 25, Township 9S, Range 16W _____

Landform (hillslope, terrace, etc.): _____ Plain _____ Local relief (concave, convex, none): _____ None _____ Slope (%): _____ 0-5 _____

Subregion (LRR or MLRA): _____ MLRA 152A, LRR T _____ Lat: _____ 30.23327 _____ Long: _____ -89.55330 _____ Datum: _____ WGS84 _____

Soil Map Unit Name: _____ Smithon fine sandy loam, FF, 0-2% slopes _____ NWI Classification: _____ None _____

Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) _____ Yes _____ (if no, explain in Remarks.) _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ X _____ No _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ naturally problematic? (If needed, explain any answers in Remarks.) _____

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u>	No _____	
Wetland Hydrology Present?	Yes <u>X</u>	No _____	
Remarks: This point was determined to be within a wetland due to the presence of all three wetland criteria.			

HYDROLOGY

Wetland hydrology indicators: Primary Indicators (minimum of one is required; check all that apply)				Secondary Indicators (minimum of two required)			
☐ Surface Water (A1) ☐ High Water Table (A2) ☐ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B2) ☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial Imagery (B7) ☐ Water-Stained Leaves (B9)	☐ Aquatic Fauna (B13) ☐ Marl Deposits (B15) (LRR U) ☐ Hydrogen Sulfide Odor (C1) ☐ Oxidized Rhizospheres on Living Roots (C3) ☐ Presence of Reduced Iron (C4) ☐ Recent Iron Reduction in Tilled Soils (C6) ☐ Thin Muck Surface (C7) ☐ Other (Explain in Remarks)	☐ Surface Soil Cracks (B6) ☐ Sparsely Vegetated Concave Surface (B8) ☐ Drainage Patterns (B10) ☐ Moss Trim Lines (B16) ☐ Dry-Season Water Table (C2) ☐ Crayfish Burrows (C8) ☐ Saturation Visible on Aerial Imagery (C9) ☒ Geomorphic Position (D2) ☐ Shallow Aquitard (D3) ☒ FAC-Neutral Test (D5) ☒ Sphagnum moss (D8) (LRR T, U)					
Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): <u>N/A</u> Water Table Present? Yes _____ No <u>X</u> Depth (inches): <u>N/A</u> Saturation Present? Yes _____ No <u>X</u> Depth (inches): <u>N/A</u>				Wetland Hydrology Present? Yes <u>X</u> No _____			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks: A positive indication of wetland hydrology was observed (at least two secondary indicators).							

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth (inches)	Matrix		Redox Features				Texture	Remarks		
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²				
0-13	10YR 4/1	60	10YR 7/1	40	D	M	Sandy Loam			
13-16	10YR 5/1	30	10YR 7/1	70	D	M	Sandy Loam			
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.										
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)							Indicators for Problematic Hydric Soils³:			
☐ Histosol (A1) ☐ Histic Epipedon (A2) ☐ Black Histic (A3) ☐ Hydrogen Sulfide (A4) ☐ Stratified Layers (A5) ☐ Organic Bodies (A6) (LRR P, T, U) ☐ 5 cm Mucky Mineral (A7) (LRR P, T, U) ☐ Muck Presence (A8) (LRR U) ☐ 1 cm Muck (A9) (LRR P, T) ☐ Depleted Below Dark Surface (A11) ☐ Thick Dark Surface (A12) ☐ Coast Prairie Redox (A16) (MLRA 150A) ☐ Sandy Mucky Mineral (S1) (LRR O, S) ☐ Sandy Gleyed Matrix (S4) ☐ Sandy Redox (S5) ☒ Stripped Matrix (S6) ☐ Dark Surface (S7) (LRR P, S, T, U)							☐ Polyvalue Below Surface (S8) (LRR S, T, U) ☐ Thin Dark Surface (S9) (LRR S, T, U) ☐ Loamy Mucky Mineral (F1) (LRR O) ☐ Loamy Gleyed Matrix (F2) ☐ Depleted Matrix (F3) ☐ Redox Dark Surface (F6) ☐ Depleted Dark Surface (F7) ☐ Redox Depressions (F8) ☐ Marl (F10) (LRR U) ☐ Depleted Ochric (F11) (MLRA 151) ☐ Iron-Manganese Masses (F12) (LRR O, P, T) ☐ Umbric Surface (F13) (LRR P, T, U) ☐ Delta Ochric (F17) (MLRA 151) ☐ Reduced Vertic (F18) (MLRA 150A, 150B) ☐ Piedmont Floodplain Soils (F19) (MLRA 149A) ☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)		☐ 1 cm Muck (A9) (LRR O) ☐ 2 cm Muck (A10) (LRR S) ☐ Reduced Vertic (F18) (outside MLRA 150A,B) ☐ Piedmont Floodplain Soils (F19) (LRR P, S, T) ☐ Anomalous Bright Loamy Soils (F20) ☐ (MLRA 153B) ☐ Red Parent Material (TF2) ☐ Very Shallow Dark Surface (TF12) ☐ Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	
Restrictive Layer (if observed): Type: _____ Depth (inches): _____							Hydric Soil Present? Yes <u>X</u> No _____			
Remarks: A positive indication of hydric soil was observed.										

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

DP17

	Absolute % cover	Dominant Species	Indicator Status															
Tree Stratum (Plot size: 30 ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>9</u> (A) Total Number of Dominant Species Across All Strata: <u>9</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)														
1. <i>Pinus elliotii</i>	50	Yes	FACW															
2. <i>Magnolia virginiana</i>	15	Yes	FACW															
3. _____	_____	_____	_____															
4. _____	_____	_____	_____															
5. _____	_____	_____	_____															
6. _____	_____	_____	_____															
	65 = Total Cover																	
50% of total cover:	32.5	20% of total cover:	13															
Sapling Stratum (Plot size: 30 ft.)					Prevalence Index Worksheet: <table style="width: 100%;"> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: right;">Multiply by:</th> </tr> <tr> <td>OBL species <u>13</u></td> <td>x 1 = <u>13</u></td> </tr> <tr> <td>FACW species <u>126</u></td> <td>x 2 = <u>252</u></td> </tr> <tr> <td>FAC species <u>23</u></td> <td>x 3 = <u>69</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>162</u></td> <td>(A) <u>334</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>2.06</u>	Total % Cover of:	Multiply by:	OBL species <u>13</u>	x 1 = <u>13</u>	FACW species <u>126</u>	x 2 = <u>252</u>	FAC species <u>23</u>	x 3 = <u>69</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>162</u>
Total % Cover of:	Multiply by:																	
OBL species <u>13</u>	x 1 = <u>13</u>																	
FACW species <u>126</u>	x 2 = <u>252</u>																	
FAC species <u>23</u>	x 3 = <u>69</u>																	
FACU species <u>0</u>	x 4 = <u>0</u>																	
UPL species <u>0</u>	x 5 = <u>0</u>																	
Column Totals: <u>162</u>	(A) <u>334</u> (B)																	
1. <i>Ilex coriacea</i>	15	Yes	FACW															
2. <i>Persea borbonia</i>	3	No	FACW															
3. _____	_____	_____	_____															
4. _____	_____	_____	_____															
5. _____	_____	_____	_____															
6. _____	_____	_____	_____															
	18 = Total Cover																	
50% of total cover:	9	20% of total cover:	3.6															
Shrub Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Indicators: _____ 1 - Rapid Test for Hydrophytic Vegetation ☒ 2 - Dominance Test is >50% ☒ 3 - Prevalence Index is ≤ 3.0 ¹ _____ Problematic Hydrophytic Vegetation ¹ (Explain)														
1. <i>Ilex coriacea</i>	15	Yes	FACW															
2. <i>Baccharis halimifolia</i>	5	Yes	FAC															
3. <i>Pinus elliotii</i>	5	Yes	FACW															
4. <i>Morella cerifera</i>	3	No	FAC															
5. <i>Diospyros virginiana</i>	3	No	FAC															
6. _____	_____	_____	_____															
	31 = Total Cover																	
50% of total cover:	15.5	20% of total cover:	6.2															
Herb Stratum (Plot size: 30 ft.)					Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height.													
1. <i>Andropogon mohrii</i>	15	Yes	FACW															
2. <i>Lycopodiella alopecuroides</i>	10	Yes	OBL															
3. <i>Dichanthelium acuminatum</i>	10	Yes	FAC															
4. <i>Rhynchospora elliotii</i>	8	No	FACW															
5. <i>Xyris laxifolia</i>	3	No	OBL															
6. <i>Acer rubrum</i>	2	No	FAC															
7. _____	_____	_____	_____															
8. _____	_____	_____	_____															
9. _____	_____	_____	_____															
10. _____	_____	_____	_____															
11. _____	_____	_____	_____															
	48 = Total Cover																	
50% of total cover:	24	20% of total cover:	9.6															
Woody Vine Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____														
1. <i>None Observed</i>																		
2. _____	_____	_____	_____															
3. _____	_____	_____	_____															
4. _____	_____	_____	_____															
5. _____	_____	_____	_____															
	_____ = Total Cover																	
50% of total cover:	_____	20% of total cover:	_____															

Remarks: (if observed, list morphological adaptations below).

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: _____ Site 1 _____ County: _____ Hancock _____ Sampling Date: _____ July 15, 2022 _____

Applicant/Owner: _____ Hancock County Port & Harbor Commission _____ State: _____ Mississippi _____ Sample Point: _____ DP18 _____

Investigator(s): _____ Savannah R. Morales _____ and _____ Beth Beals _____ Section, Township, Range: _____ Section 25, Township 9S, Range 16W _____

Landform (hillslope, terrace, etc.): _____ Hummocked Plain _____ Local relief (concave, convex, none): _____ None _____ Slope (%): _____ 0-5 _____

Subregion (LRR or MLRA): _____ MLRA 152A, LRR T _____ Lat: _____ 30.23040 _____ Long: _____ -89.54885 _____ Datum: _____ WGS84 _____

Soil Map Unit Name: _____ Harleston fine sandy loam, 0-2% slopes _____ NWI Classification: _____ None _____

Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) _____ Yes _____ (if no, explain in Remarks.) _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ X _____ No _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ naturally problematic? (If needed, explain any answers in Remarks.) _____

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☒	No _____	Is the Sampled Area within a Wetland?	Yes _____	No ☒
Hydric Soil Present?	Yes _____	No ☒			
Wetland Hydrology Present?	Yes _____	No ☒			
Remarks: This point was determined not to be within a wetland due to the lack of hydric soils and wetland hydrology.					

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)			
☐ High Water Table (A2)	☐ Marl Deposits (B15) (LRR U)	☐ Sparsely Vegetated Concave Surface (B8)			
☐ Saturation (A3)	☐ Hydrogen Sulfide Odor (C1)	☐ Drainage Patterns (B10)			
☐ Water Marks (B1)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Moss Trim Lines (B16)			
☐ Sediment Deposits (B2)	☐ Presence of Reduced Iron (C4)	☐ Dry-Season Water Table (C2)			
☐ Drift Deposits (B3)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Crayfish Burrows (C8)			
☐ Algal Mat or Crust (B4)	☐ Thin Muck Surface (C7)	☐ Saturation Visible on Aerial Imagery (C9)			
☐ Iron Deposits (B5)	☐ Other (Explain in Remarks)	☐ Geomorphic Position (D2)			
☐ Inundation Visible on Aerial Imagery (B7)		☒ Shallow Aquitard (D3)			
☐ Water-Stained Leaves (B9)		☒ FAC-Neutral Test (D5)			
		☐ Sphagnum moss (D8) (LRR T, U)			
Field Observations:				Wetland Hydrology Present?	
Surface Water Present?	Yes _____ No ☒	Depth (inches):	N/A	Yes _____	No ☒
Water Table Present?	Yes _____ No ☒	Depth (inches):	N/A		
Saturation Present?	Yes _____ No ☒	Depth (inches):	N/A		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks: No positive indication of wetland hydrology was observed.					

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-3	10YR 7/3	100					Sandy Loam	
3-10	10YR 3/2	100					Sandy Loam	
10-16	10YR 7/4	100					Sandy Loam	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.								
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)						Indicators for Problematic Hydric Soils³:		
☐ Histosol (A1)	☐ Polyvalue Below Surface (S8) (LRR S, T, U)				☐ 1 cm Muck (A9) (LRR O)			
☐ Histic Epipedon (A2)	☐ Thin Dark Surface (S9) (LRR S, T, U)				☐ 2 cm Muck (A10) (LRR S)			
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (LRR O)				☐ Reduced Vertic (F18) (outside MLRA 150A,B)			
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)				☐ Piedmont Floodplain Soils (F19) (LRR P, S, T)			
☐ Stratified Layers (A5)	☐ Depleted Matrix (F3)				☐ Anomalous Bright Loamy Soils (F20)			
☐ Organic Bodies (A6) (LRR P, T, U)	☐ Redox Dark Surface (F6)				☐ (MLRA 153B)			
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)	☐ Depleted Dark Surface (F7)				☐ Red Parent Material (TF2)			
☐ Muck Presence (A8) (LRR U)	☐ Redox Depressions (F8)				☐ Very Shallow Dark Surface (TF12)			
☐ 1 cm Muck (A9) (LRR P, T)	☐ Marl (F10) (LRR U)				☐ Other (Explain in Remarks)			
☐ Depleted Below Dark Surface (A11)	☐ Depleted Ochric (F11) (MLRA 151)							
☐ Thick Dark Surface (A12)	☐ Iron-Manganese Masses (F12) (LRR O, P, T)							
☐ Coast Prairie Redox (A16) (MLRA 150A)	☐ Umbric Surface (F13) (LRR P, T, U)							
☐ Sandy Mucky Mineral (S1) (LRR O, S)	☐ Delta Ochric (F17) (MLRA 151)							
☐ Sandy Gleyed Matrix (S4)	☐ Reduced Vertic (F18) (MLRA 150A, 150B)							
☐ Sandy Redox (S5)	☐ Piedmont Floodplain Soils (F19) (MLRA 149A)							
☐ Stripped Matrix (S6)	☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)							
☐ Dark Surface (S7) (LRR P, S, T, U)								
Restrictive Layer (if observed):						Hydric Soil Present?		
Type: _____						Yes _____ No ☒		
Depth (inches): _____								
Remarks: No positive indication of hydric soils was observed.								

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

DP18

	Absolute % cover	Dominant Species	Indicator Status																													
Tree Stratum (Plot size: <u>30</u> ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>7</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																												
1. <i>Quercus nigra</i>	50	Yes	FAC																													
2. <i>Nyssa sylvatica</i>	30	Yes	FAC																													
3. <i>Pinus elliotii</i>	5	No	FACW																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	85 = Total Cover																															
50% of total cover:	42.5	20% of total cover:	17																													
Sapling Stratum (Plot size: <u>30</u> ft.)					Prevalence Index Worksheet: <table style="width: 100%;"> <tr> <td colspan="2">Total % Cover of:</td> <td colspan="2">Multiply by:</td> </tr> <tr> <td>OBL species</td> <td><u>0</u></td> <td>x 1 =</td> <td><u>0</u></td> </tr> <tr> <td>FACW species</td> <td><u>10</u></td> <td>x 2 =</td> <td><u>20</u></td> </tr> <tr> <td>FAC species</td> <td><u>145</u></td> <td>x 3 =</td> <td><u>435</u></td> </tr> <tr> <td>FACU species</td> <td><u>0</u></td> <td>x 4 =</td> <td><u>0</u></td> </tr> <tr> <td>UPL species</td> <td><u>0</u></td> <td>x 5 =</td> <td><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>155</u></td> <td>(A)</td> <td><u>455</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>2.94</u>	Total % Cover of:		Multiply by:		OBL species	<u>0</u>	x 1 =	<u>0</u>	FACW species	<u>10</u>	x 2 =	<u>20</u>	FAC species	<u>145</u>	x 3 =	<u>435</u>	FACU species	<u>0</u>	x 4 =	<u>0</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals:	<u>155</u>	(A)
Total % Cover of:		Multiply by:																														
OBL species	<u>0</u>	x 1 =	<u>0</u>																													
FACW species	<u>10</u>	x 2 =	<u>20</u>																													
FAC species	<u>145</u>	x 3 =	<u>435</u>																													
FACU species	<u>0</u>	x 4 =	<u>0</u>																													
UPL species	<u>0</u>	x 5 =	<u>0</u>																													
Column Totals:	<u>155</u>	(A)	<u>455</u> (B)																													
1. <i>Ilex vomitoria</i>	30	Yes	FAC																													
2. _____	_____	_____	_____																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	30 = Total Cover																															
50% of total cover:	15	20% of total cover:	6																													
Shrub Stratum (Plot size: <u>30</u> ft.)				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>X</u> <u>3</u> - Prevalence Index is ≤ 3.0 ¹ _____ Problematic Hydrophytic Vegetation ¹ (Explain)																												
1. <i>Ilex vomitoria</i>	20	Yes	FAC																													
2. <i>Pinus elliotii</i>	3	No	FACW																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	23 = Total Cover																															
50% of total cover:	11.5	20% of total cover:	4.6																													
Herb Stratum (Plot size: <u>30</u> ft.)					Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height.																											
1. <i>Toxicodendron radicans</i>	5	Yes	FAC																													
2. <i>Ilex vomitoria</i>	5	Yes	FAC																													
3. <i>Quercus nigra</i>	2	No	FAC																													
4. <i>Ilex glabra</i>	2	No	FACW																													
5. <i>Triadica sebifera</i>	1	No	FAC																													
6. _____	_____	_____	_____																													
7. _____	_____	_____	_____																													
8. _____	_____	_____	_____																													
9. _____	_____	_____	_____																													
10. _____	_____	_____	_____																													
11. _____	_____	_____	_____																													
	15 = Total Cover																															
50% of total cover:	7.5	20% of total cover:	3																													
Woody Vine Stratum (Plot size: <u>30</u> ft.)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____																												
1. <i>Toxicodendron radicans</i>	2	Yes	FAC																													
2. _____	_____	_____	_____																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
	2 = Total Cover																															
50% of total cover:	1	20% of total cover:	0.4																													

Remarks: (if observed, list morphological adaptations below).

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site:	Site 1	County:	Hancock	Sampling Date:	July 19, 2022
Applicant/Owner:	Hancock County Port & Harbor Commission	State:	Mississippi	Sample Point:	DP19
Investigator(s):	Beth Beals and Savannah R. Morales	Section, Township, Range:	Section 25, Township 9S, Range 16W		
Landform (hillslope, terrace, etc.):	Depression	Local relief (concave, convex, none):	Concave	Slope (%):	0-5
Subregion (LRR or MLRA):	MLRA 152A, LRR T	Lat:	30.23586	Long:	-89.55350
Soil Map Unit Name:	Ocilla loamy sand, 0-2% slopes	Datum:	WGS84	NWI Classification:	None
Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) No (if no, explain in Remarks.)					
Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes No X					
Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)					

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No	Is the Sampled Area within a Wetland? Yes X No
Hydric Soil Present?	Yes X	No	
Wetland Hydrology Present?	Yes X	No	
Remarks: This point was determined to be within a wetland due to the presence of all three wetland criteria. This location was considered wetter than normal based on results from the USACE's Antecedent Precipitaition Tool for this location and date.			

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)		
☐ High Water Table (A2)	☐ Marl Deposits (B15) (LRR U)	☐ Sparsely Vegetated Concave Surface (B8)		
☒ Saturation (A3)	☐ Hydrogen Sulfide Odor (C1)	☐ Drainage Patterns (B10)		
☐ Water Marks (B1)	☐ Oxidized Rhizospheres on Living Roots(C3)	☐ Moss Trim Lines (B16)		
☐ Sediment Deposits (B2)	☐ Presence of Reduced Iron (C4)	☐ Dry-Season Water Table (C2)		
☐ Drift Deposits (B3)	☐ Recent Iron Reduction in Tilled Soils (C6)	☒ Crayfish Burrows (C8)		
☐ Algal Mat or Crust (B4)	☐ Thin Muck Surface (C7)	☒ Saturation Visible on Aerial Imagery (C9)		
☐ Iron Deposits (B5)	☐ Other (Explain in Remarks)	☒ Geomorphic Position (D2)		
☐ Inundation Visible on Aerial Imagery (B7)		☐ Shallow Aquitard (D3)		
☐ Water-Stained Leaves (B9)		☒ FAC-Neutral Test (D5)		
		☒ Sphagnum moss (D8) (LRR T, U)		
Field Observations:			Wetland Hydrology Present? Yes X No	
Surface Water Present?	Yes X No	Depth (inches):	4	
Water Table Present?	Yes No X	Depth (inches):	>16	
Saturation Present?	Yes X No	Depth (inches):	4-16	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:				
Remarks: A positive indication of wetland hydrology was observed (at least one primary indicator).				

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-2	10YR 3/1	100					Silt Loam	
2-6	10YR 5/2	55	10YR 5/6	60	C	M	Silt Loam	
			10YR 5/6	5	C	PL		
6-16	10YR 7/2	30	10YR 6/6	70	C	M	Silt Loam	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.								
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)						Indicators for Problematic Hydric Soils³:		
☐ Histosol (A1)	☐ Polyvalue Below Surface (S8) (LRR S, T, U)				☐ 1 cm Muck (A9) (LRR O)			
☐ Histic Epipedon (A2)	☐ Thin Dark Surface (S9) (LRR S, T, U)				☐ 2 cm Muck (A10) (LRR S)			
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (LRR O)				☐ Reduced Vertic (F18) (outside MLRA 150A,B)			
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)				☐ Piedmont Floodplain Soils (F19) (LRR P, S, T)			
☐ Stratified Layers (A5)	☒ Depleted Matrix (F3)				☐ Anomalous Bright Loamy Soils (F20)			
☐ Organic Bodies (A6) (LRR P, T, U)	☐ Redox Dark Surface (F6)				☐ (MLRA 153B)			
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)	☐ Depleted Dark Surface (F7)				☐ Red Parent Material (TF2)			
☐ Muck Presence (A8) (LRR U)	☐ Redox Depressions (F8)				☐ Very Shallow Dark Surface (TF12)			
☐ 1 cm Muck (A9) (LRR P, T)	☐ Marl (F10) (LRR U)				☐ Other (Explain in Remarks)			
☐ Depleted Below Dark Surface (A11)	☐ Depleted Ochric (F11) (MLRA 151)							
☐ Thick Dark Surface (A12)	☐ Iron-Manganese Masses (F12) (LRR O, P, T)							
☐ Coast Prairie Redox (A16) (MLRA 150A)	☐ Umbric Surface (F13) (LRR P, T, U)							
☐ Sandy Mucky Mineral (S1) (LRR O, S)	☐ Delta Ochric (F17) (MLRA 151)							
☐ Sandy Gleyed Matrix (S4)	☐ Reduced Vertic (F18) (MLRA 150A, 150B)							
☐ Sandy Redox (S5)	☐ Piedmont Floodplain Soils (F19) (MLRA 149A)							
☐ Stripped Matrix (S6)	☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)							
☐ Dark Surface (S7) (LRR P, S, T, U)								
Restrictive Layer (if observed):						Hydric Soil Present? Yes X No		
Type: _____								
Depth (inches): _____								
Remarks: A positive indication of hydric soil was observed. Soil was compacted below 4 inches.								

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

DP19

	Absolute % cover	Dominant Species	Indicator Status																													
Tree Stratum (Plot size: 30 ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																												
1. <i>None Observed</i>																																
2.																																
3.																																
4.																																
5.																																
6.																																
		= Total Cover																														
50% of total cover:		20% of total cover:																														
Sapling Stratum (Plot size: 30 ft.)				Prevalence Index Worksheet: <table style="width: 100%;"> <tr> <th colspan="2">Total % Cover of:</th> <th colspan="2">Multiply by:</th> </tr> <tr> <td>OBL species</td> <td><u>0</u></td> <td>x 1 =</td> <td><u>0</u></td> </tr> <tr> <td>FACW species</td> <td><u>132</u></td> <td>x 2 =</td> <td><u>264</u></td> </tr> <tr> <td>FAC species</td> <td><u>30</u></td> <td>x 3 =</td> <td><u>90</u></td> </tr> <tr> <td>FACU species</td> <td><u>0</u></td> <td>x 4 =</td> <td><u>0</u></td> </tr> <tr> <td>UPL species</td> <td><u>0</u></td> <td>x 5 =</td> <td><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>162</u></td> <td>(A)</td> <td><u>354</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>2.19</u>	Total % Cover of:		Multiply by:		OBL species	<u>0</u>	x 1 =	<u>0</u>	FACW species	<u>132</u>	x 2 =	<u>264</u>	FAC species	<u>30</u>	x 3 =	<u>90</u>	FACU species	<u>0</u>	x 4 =	<u>0</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals:	<u>162</u>	(A)	<u>354</u> (B)
Total % Cover of:		Multiply by:																														
OBL species	<u>0</u>	x 1 =	<u>0</u>																													
FACW species	<u>132</u>	x 2 =	<u>264</u>																													
FAC species	<u>30</u>	x 3 =	<u>90</u>																													
FACU species	<u>0</u>	x 4 =	<u>0</u>																													
UPL species	<u>0</u>	x 5 =	<u>0</u>																													
Column Totals:	<u>162</u>	(A)	<u>354</u> (B)																													
1. <i>None Observed</i>																																
2.																																
3.																																
4.																																
5.																																
6.																																
		= Total Cover																														
50% of total cover:		20% of total cover:																														
Shrub Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>X</u> <u>3</u> - Prevalence Index is ≤ 3.0 ¹ _____ Problematic Hydrophytic Vegetation ¹ (Explain)																												
1. <i>Pinus elliotii</i>	10	Yes	FACW																													
2. <i>Morella cerifera</i>	7	Yes	FAC																													
3.																																
4.																																
5.																																
6.																																
	17	= Total Cover																														
50% of total cover:	8.5	20% of total cover:	3.4																													
Herb Stratum (Plot size: 30 ft.)				Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height.																												
1. <i>Rhynchospora elliotii</i>	80	Yes	FACW																													
2. <i>Andropogon mohrii</i>	30	Yes	FACW																													
3. <i>Dichanthelium acuminatum</i>	15	No	FAC																													
4. <i>Eupatorium serotinum</i>	8	No	FAC																													
5. <i>Rhexia mariana</i>	5	No	FACW																													
6. <i>Ilex glabra</i>	5	No	FACW																													
7. <i>Polygala lutea</i>	2	No	FACW																													
8.																																
9.																																
10.																																
11.																																
	145	= Total Cover																														
50% of total cover:	72.5	20% of total cover:	29																													
Woody Vine Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____																												
1. <i>None Observed</i>																																
2.																																
3.																																
4.																																
5.																																
6.																																
		= Total Cover																														
50% of total cover:		20% of total cover:																														
Remarks: (if observed, list morphological adaptations below). A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).																																

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: _____ Site 1 _____ County: _____ Hancock _____ Sampling Date: _____ July 19, 2022 _____

Applicant/Owner: _____ Hancock County Port & Harbor Commission _____ State: _____ Mississippi _____ Sample Point: _____ DP20 _____

Investigator(s): _____ Beth Beals _____ and _____ Savannah R. Morales _____ Section, Township, Range: _____ Section 30, Township 9S, Range 15W _____

Landform (hillslope, terrace, etc.): _____ Hummocked Plain _____ Local relief (concave, convex, none): _____ None _____ Slope (%): _____ 0-5 _____

Subregion (LRR or MLRA): _____ MLRA 152A, LRR T _____ Lat: _____ 30.23156 _____ Long: _____ -89.54359 _____ Datum: _____ WGS84 _____

Soil Map Unit Name: _____ Smithon Association, FF, 0-2% slopes _____ NWI Classification: _____ None _____

Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) _____ No _____ (if no, explain in Remarks.) _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No _____ **X** _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ naturally problematic? (If needed, explain any answers in Remarks.) _____

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No _____	Is the Sampled Area within a Wetland?
Hydric Soil Present?	Yes X	No _____	
Wetland Hydrology Present?	Yes X	No _____	
Remarks: This point was determined to be within a wetland due to the presence of all three wetland criteria. This location was considered wetter than normal based on results from the USACE's Antecedent Precipitation Tool for this location and date.			

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)		
☐ High Water Table (A2)	☐ Marl Deposits (B15) (LRR U)	☐ Sparsely Vegetated Concave Surface (B8)		
☒ Saturation (A3)	☐ Hydrogen Sulfide Odor (C1)	☐ Drainage Patterns (B10)		
☐ Water Marks (B1)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Moss Trim Lines (B16)		
☐ Sediment Deposits (B2)	☐ Presence of Reduced Iron (C4)	☐ Dry-Season Water Table (C2)		
☐ Drift Deposits (B3)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Crayfish Burrows (C8)		
☐ Algal Mat or Crust (B4)	☐ Thin Muck Surface (C7)	☒ Saturation Visible on Aerial Imagery (C9)		
☐ Iron Deposits (B5)	☐ Other (Explain in Remarks)	☒ Geomorphic Position (D2)		
☐ Inundation Visible on Aerial Imagery (B7)		☒ Shallow Aquitard (D3)		
☐ Water-Stained Leaves (B9)		☒ FAC-Neutral Test (D5)		
		☒ Sphagnum moss (D8) (LRR T, U)		
Field Observations:			Wetland Hydrology Present?	
Surface Water Present?	Yes _____ No X	Depth (inches): N/A	Yes X No _____	
Water Table Present?	Yes _____ No X	Depth (inches): >16		
Saturation Present?	Yes X No _____	Depth (inches): 5-16		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:				
Remarks:				
A positive indication of wetland hydrology was observed (at least one primary indicator).				

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-7	10YR 6/1	60	10YR 5/6	2	C	M	Sandy Loam	
	10YR 5/2	40					Sandy Loam	
7-12	10YR 6/1	50	10YR 7/6	10	C	M	Sandy Loam	
	10YR 4/2	40					Sandy Loam	
12-16	10YR 6/2	30	10YR 5/2	60			Sandy Loam	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.								
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)						Indicators for Problematic Hydric Soils³:		
☐ Histosol (A1)			☐ Polyvalue Below Surface (S8) (LRR S, T, U)			☐ 1 cm Muck (A9) (LRR O)		
☐ Histic Epipedon (A2)			☐ Thin Dark Surface (S9) (LRR S, T, U)			☐ 2 cm Muck (A10) (LRR S)		
☐ Black Histic (A3)			☐ Loamy Mucky Mineral (F1) (LRR O)			☐ Reduced Vertic (F18) (outside MLRA 150A,B)		
☐ Hydrogen Sulfide (A4)			☐ Loamy Gleyed Matrix (F2)			☐ Piedmont Floodplain Soils (F19) (LRR P, S, T)		
☐ Stratified Layers (A5)			☐ Depleted Matrix (F3)			☐ Anomalous Bright Loamy Soils (F20)		
☐ Organic Bodies (A6) (LRR P, T, U)			☐ Redox Dark Surface (F6)			☐ (MLRA 153B)		
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)			☐ Depleted Dark Surface (F7)			☐ Red Parent Material (TF2)		
☐ Muck Presence (A8) (LRR U)			☐ Redox Depressions (F8)			☐ Very Shallow Dark Surface (TF12)		
☐ 1 cm Muck (A9) (LRR P, T)			☐ Marl (F10) (LRR U)			☐ Other (Explain in Remarks)		
☐ Depleted Below Dark Surface (A11)			☐ Depleted Ochric (F11) (MLRA 151)					
☐ Thick Dark Surface (A12)			☐ Iron-Manganese Masses (F12) (LRR O, P, T)					
☐ Coast Prairie Redox (A16) (MLRA 150A)			☐ Umbric Surface (F13) (LRR P, T, U)					
☐ Sandy Mucky Mineral (S1) (LRR O, S)			☐ Delta Ochric (F17) (MLRA 151)					
☐ Sandy Gleyed Matrix (S4)			☐ Reduced Vertic (F18) (MLRA 150A, 150B)					
☒ Sandy Redox (S5)			☐ Piedmont Floodplain Soils (F19) (MLRA 149A)					
☐ Stripped Matrix (S6)			☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)					
☐ Dark Surface (S7) (LRR P, S, T, U)								
Restrictive Layer (if observed):						Hydric Soil Present?		
Type: _____						Yes X No _____		
Depth (inches): _____								
Remarks:								
A positive indication of hydric soil was observed.								

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

DP20

	Absolute % cover	Dominant Species	Indicator Status																													
Tree Stratum (Plot size: <u>30</u> ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>9</u> (A) Total Number of Dominant Species Across All Strata: <u>9</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																												
1. <i>Pinus elliotii</i>	15	Yes	FACW																													
2. <i>Nyssa sylvatica</i>	10	Yes	FAC																													
3. <i>Magnolia virginiana</i>	5	No	FACW																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	30 = Total Cover																															
50% of total cover: <u>15</u>		20% of total cover: <u>6</u>																														
Sapling Stratum (Plot size: <u>30</u> ft.)					Prevalence Index Worksheet: <table style="width: 100%;"> <tr> <th colspan="2">Total % Cover of:</th> <th colspan="2">Multiply by:</th> </tr> <tr> <td>OBL species</td> <td><u>5</u></td> <td>x 1 =</td> <td><u>5</u></td> </tr> <tr> <td>FACW species</td> <td><u>77</u></td> <td>x 2 =</td> <td><u>154</u></td> </tr> <tr> <td>FAC species</td> <td><u>28</u></td> <td>x 3 =</td> <td><u>84</u></td> </tr> <tr> <td>FACU species</td> <td><u>0</u></td> <td>x 4 =</td> <td><u>0</u></td> </tr> <tr> <td>UPL species</td> <td><u>0</u></td> <td>x 5 =</td> <td><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>110</u></td> <td>(A)</td> <td><u>243</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>2.21</u>	Total % Cover of:		Multiply by:		OBL species	<u>5</u>	x 1 =	<u>5</u>	FACW species	<u>77</u>	x 2 =	<u>154</u>	FAC species	<u>28</u>	x 3 =	<u>84</u>	FACU species	<u>0</u>	x 4 =	<u>0</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals:	<u>110</u>	(A)
Total % Cover of:		Multiply by:																														
OBL species	<u>5</u>	x 1 =	<u>5</u>																													
FACW species	<u>77</u>	x 2 =	<u>154</u>																													
FAC species	<u>28</u>	x 3 =	<u>84</u>																													
FACU species	<u>0</u>	x 4 =	<u>0</u>																													
UPL species	<u>0</u>	x 5 =	<u>0</u>																													
Column Totals:	<u>110</u>	(A)	<u>243</u> (B)																													
1. <i>Ilex vomitoria</i>	5	Yes	FAC																													
2. <i>Pinus elliotii</i>	2	Yes	FACW																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	7 = Total Cover																															
50% of total cover: <u>3.5</u>		20% of total cover: <u>1.4</u>																														
Shrub Stratum (Plot size: <u>30</u> ft.)				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u>X</u> 3 - Prevalence Index is ≤ 3.0 ¹ _____ Problematic Hydrophytic Vegetation ¹ (Explain)																												
1. <i>Ilex glabra</i>	20	Yes	FACW																													
2. <i>Pinus elliotii</i>	8	Yes	FACW																													
3. <i>Ilex vomitoria</i>	5	No	FAC																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	33 = Total Cover																															
50% of total cover: <u>16.5</u>		20% of total cover: <u>6.6</u>																														
Herb Stratum (Plot size: <u>30</u> ft.)					Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height.																											
1. <i>Balduina uniflora</i>	15	Yes	FACW																													
2. <i>Ilex glabra</i>	10	Yes	FACW																													
3. <i>Ilex vomitoria</i>	8	Yes	FAC																													
4. <i>Eriocaulon compressum</i>	5	No	OBL																													
5. <i>Polygala lutea</i>	2	No	FACW																													
6. _____	_____	_____	_____																													
7. _____	_____	_____	_____																													
8. _____	_____	_____	_____																													
9. _____	_____	_____	_____																													
10. _____	_____	_____	_____																													
11. _____	_____	_____	_____																													
	40 = Total Cover																															
50% of total cover: <u>20</u>		20% of total cover: <u>8</u>																														
Woody Vine Stratum (Plot size: <u>30</u> ft.)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____																												
1. <i>None Observed</i>																																
2. _____	_____	_____	_____																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
	_____ = Total Cover																															
50% of total cover: _____		20% of total cover: _____																														

Remarks: (if observed, list morphological adaptations below).

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: _____ Site 1 _____ County: _____ Hancock _____ Sampling Date: _____ July 19, 2022 _____

Applicant/Owner: _____ Hancock County Port & Harbor Commission _____ State: _____ Mississippi _____ Sample Point: _____ DP21 _____

Investigator(s): _____ Beth Beals _____ and _____ Savannah R. Morales _____ Section, Township, Range: _____ Section 25, Township 9S, Range 16W _____

Landform (hillslope, terrace, etc.): _____ Plain _____ Local relief (concave, convex, none): _____ Convex _____ Slope (%): _____ 0-5 _____

Subregion (LRR or MLRA): _____ MLRA 152A, LRR T _____ Lat: _____ 30.23451 _____ Long: _____ -89.55055 _____ Datum: _____ WGS84 _____

Soil Map Unit Name: _____ Smithon Association, FF, 0-2% slopes _____ NWI Classification: _____ None _____

Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) _____ No _____ (if no, explain in Remarks.)

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No _____ **X** _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No _____	Is the Sampled Area within a Wetland?
Hydric Soil Present?	Yes X	No _____	
Wetland Hydrology Present?	Yes X	No _____	
Remarks: This point was determined to be within a wetland due to the presence of all three wetland criteria. This location was considered wetter than normal based on results from the USACE's Antecedent Precipitation Tool for this location and date.			

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)		
☐ High Water Table (A2)	☐ Marl Deposits (B15) (LRR U)	☐ Sparsely Vegetated Concave Surface (B8)		
☒ Saturation (A3)	☐ Hydrogen Sulfide Odor (C1)	☐ Drainage Patterns (B10)		
☐ Water Marks (B1)	☒ Oxidized Rhizospheres on Living Roots (C3)	☐ Moss Trim Lines (B16)		
☐ Sediment Deposits (B2)	☐ Presence of Reduced Iron (C4)	☐ Dry-Season Water Table (C2)		
☐ Drift Deposits (B3)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Crayfish Burrows (C8)		
☐ Algal Mat or Crust (B4)	☐ Thin Muck Surface (C7)	☐ Saturation Visible on Aerial Imagery (C9)		
☐ Iron Deposits (B5)	☐ Other (Explain in Remarks)	☐ Geomorphic Position (D2)		
☐ Inundation Visible on Aerial Imagery (B7)		☒ Shallow Aquitard (D3)		
☐ Water-Stained Leaves (B9)		☒ FAC-Neutral Test (D5)		
		☐ Sphagnum moss (D8) (LRR T, U)		
Field Observations:			Wetland Hydrology Present?	
Surface Water Present?	Yes _____ No X	Depth (inches): N/A	Yes X No _____	
Water Table Present?	Yes _____ No X	Depth (inches): >16		
Saturation Present?	Yes X No _____	Depth (inches): 0-16		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:				
Remarks:				
A positive indication of wetland hydrology was observed (at least one primary indicator).				

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	10YR 2/1	95	10YR 3/4	5	C	M	Sandy Loam	Masked sand grains 90-100%
6-16	10YR 5/3	60	10YR 6/6	10	C	M	Sandy Loam	
	10YR 4/1	30						
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.								
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)						Indicators for Problematic Hydric Soils³:		
☐ Histosol (A1)			☐ Polyvalue Below Surface (S8) (LRR S, T, U)			☐ 1 cm Muck (A9) (LRR O)		
☐ Histic Epipedon (A2)			☐ Thin Dark Surface (S9) (LRR S, T, U)			☐ 2 cm Muck (A10) (LRR S)		
☐ Black Histic (A3)			☐ Loamy Mucky Mineral (F1) (LRR O)			☐ Reduced Vertic (F18) (outside MLRA 150A,B)		
☐ Hydrogen Sulfide (A4)			☐ Loamy Gleyed Matrix (F2)			☐ Piedmont Floodplain Soils (F19) (LRR P, S, T)		
☐ Stratified Layers (A5)			☐ Depleted Matrix (F3)			☐ Anomalous Bright Loamy Soils (F20)		
☐ Organic Bodies (A6) (LRR P, T, U)			☐ Redox Dark Surface (F6)			☐ (MLRA 153B)		
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)			☐ Depleted Dark Surface (F7)			☐ Red Parent Material (TF2)		
☐ Muck Presence (A8) (LRR U)			☐ Redox Depressions (F8)			☐ Very Shallow Dark Surface (TF12)		
☐ 1 cm Muck (A9) (LRR P, T)			☐ Marl (F10) (LRR U)			☐ Other (Explain in Remarks)		
☐ Depleted Below Dark Surface (A11)			☐ Depleted Ochric (F11) (MLRA 151)					
☐ Thick Dark Surface (A12)			☐ Iron-Manganese Masses (F12) (LRR O, P, T)					
☐ Coast Prairie Redox (A16) (MLRA 150A)			☐ Umbric Surface (F13) (LRR P, T, U)					
☐ Sandy Mucky Mineral (S1) (LRR O, S)			☐ Delta Ochric (F17) (MLRA 151)					
☐ Sandy Gleyed Matrix (S4)			☐ Reduced Vertic (F18) (MLRA 150A, 150B)					
☒ Sandy Redox (S5)			☐ Piedmont Floodplain Soils (F19) (MLRA 149A)					
☐ Stripped Matrix (S6)			☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)					
☒ Dark Surface (S7) (LRR P, S, T, U)								
Restrictive Layer (if observed):						Hydric Soil Present?		
Type: _____						Yes X No _____		
Depth (inches): _____								
Remarks:								
A positive indication of hydric soil was observed.								

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

DP21

	Absolute % cover	Dominant Species	Indicator Status																													
Tree Stratum (Plot size: 30 ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																												
1. <i>Pinus elliotii</i>	75	Yes	FACW																													
2. <i>Nyssa sylvatica</i>	15	No	FAC																													
3. <i>Quercus nigra</i>	3	No	FAC																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	93 = Total Cover																															
50% of total cover:	46.5	20% of total cover:	18.6																													
Sapling Stratum (Plot size: 30 ft.)					Prevalence Index Worksheet: <table style="width: 100%;"> <tr> <th colspan="2">Total % Cover of:</th> <th colspan="2">Multiply by:</th> </tr> <tr> <td>OBL species</td> <td><u>0</u></td> <td>x 1 =</td> <td><u>0</u></td> </tr> <tr> <td>FACW species</td> <td><u>160</u></td> <td>x 2 =</td> <td><u>320</u></td> </tr> <tr> <td>FAC species</td> <td><u>30</u></td> <td>x 3 =</td> <td><u>90</u></td> </tr> <tr> <td>FACU species</td> <td><u>0</u></td> <td>x 4 =</td> <td><u>0</u></td> </tr> <tr> <td>UPL species</td> <td><u>0</u></td> <td>x 5 =</td> <td><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>190</u></td> <td>(A)</td> <td><u>410</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>2.16</u>	Total % Cover of:		Multiply by:		OBL species	<u>0</u>	x 1 =	<u>0</u>	FACW species	<u>160</u>	x 2 =	<u>320</u>	FAC species	<u>30</u>	x 3 =	<u>90</u>	FACU species	<u>0</u>	x 4 =	<u>0</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals:	<u>190</u>	(A)
Total % Cover of:		Multiply by:																														
OBL species	<u>0</u>	x 1 =	<u>0</u>																													
FACW species	<u>160</u>	x 2 =	<u>320</u>																													
FAC species	<u>30</u>	x 3 =	<u>90</u>																													
FACU species	<u>0</u>	x 4 =	<u>0</u>																													
UPL species	<u>0</u>	x 5 =	<u>0</u>																													
Column Totals:	<u>190</u>	(A)	<u>410</u> (B)																													
1. <i>Pinus elliotii</i>	40	Yes	FACW																													
2. <i>Morella cerifera</i>	3	No	FAC																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	43 = Total Cover																															
50% of total cover:	21.5	20% of total cover:	8.6																													
Shrub Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Indicators: _____ 1 - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u>X</u> 3 - Prevalence Index is ≤ 3.0 ¹ _____ Problematic Hydrophytic Vegetation ¹ (Explain)																												
1. <i>Ilex glabra</i>	25	Yes	FACW																													
2. _____	_____	_____	_____																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	25 = Total Cover																															
50% of total cover:	12.5	20% of total cover:	5																													
Herb Stratum (Plot size: 30 ft.)					Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height.																											
1. <i>Ilex glabra</i>	20	Yes	FACW																													
2. <i>Quercus nigra</i>	2	No	FAC																													
3. <i>Toxicodendron radicans</i>	2	No	FAC																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
7. _____	_____	_____	_____																													
8. _____	_____	_____	_____																													
9. _____	_____	_____	_____																													
10. _____	_____	_____	_____																													
11. _____	_____	_____	_____																													
	24 = Total Cover																															
50% of total cover:	12	20% of total cover:	4.8																													
Woody Vine Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____																												
1. <i>Vitis rotundifolia</i>	3	Yes	FAC																													
2. <i>Smilax rotundifolia</i>	2	Yes	FAC																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
	5 = Total Cover																															
50% of total cover:	2.5	20% of total cover:	1																													
Remarks: (if observed, list morphological adaptations below). A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).																																

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: _____ Site 1 _____ County: _____ Hancock _____ Sampling Date: _____ July 20, 2022 _____

Applicant/Owner: _____ Hancock County Port & Harbor Commission _____ State: _____ Mississippi _____ Sample Point: _____ DP22 _____

Investigator(s): _____ Beth Beals _____ and _____ Savannah R. Morales _____ Section, Township, Range: _____ Section 30, Township 9S, Range 15W _____

Landform (hillslope, terrace, etc.): _____ Hummocked Plain _____ Local relief (concave, convex, none): _____ None _____ Slope (%): _____ 0-5 _____

Subregion (LRR or MLRA): _____ MLRA 152A, LRR T _____ Lat: _____ 30.23671 _____ Long: _____ -89.53807 _____ Datum: _____ WGS84 _____

Soil Map Unit Name: _____ Ocilla loamy sand, 0-2% slopes _____ NWI Classification: _____ None _____

Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) _____ No _____ (if no, explain in Remarks.) _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No _____ **X** _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ naturally problematic? (If needed, explain any answers in Remarks.) _____

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No _____	Is the Sampled Area within a Wetland?
Hydric Soil Present?	Yes X	No _____	
Wetland Hydrology Present?	Yes X	No _____	
Remarks: This point was determined to be within a wetland due to the presence of all three wetland criteria. This location was considered wetter than normal based on results from the USACE's Antecedent Precipitation Tool for this location and date.			

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)		
☐ High Water Table (A2)	☐ Marl Deposits (B15) (LRR U)	☐ Sparsely Vegetated Concave Surface (B8)		
☒ Saturation (A3)	☐ Hydrogen Sulfide Odor (C1)	☐ Drainage Patterns (B10)		
☐ Water Marks (B1)	☒ Oxidized Rhizospheres on Living Roots (C3)	☐ Moss Trim Lines (B16)		
☐ Sediment Deposits (B2)	☐ Presence of Reduced Iron (C4)	☐ Dry-Season Water Table (C2)		
☐ Drift Deposits (B3)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Crayfish Burrows (C8)		
☐ Algal Mat or Crust (B4)	☐ Thin Muck Surface (C7)	☐ Saturation Visible on Aerial Imagery (C9)		
☐ Iron Deposits (B5)	☐ Other (Explain in Remarks)	☐ Geomorphic Position (D2)		
☐ Inundation Visible on Aerial Imagery (B7)		☐ Shallow Aquitard (D3)		
☐ Water-Stained Leaves (B9)		☒ FAC-Neutral Test (D5)		
		☐ Sphagnum moss (D8) (LRR T, U)		
Field Observations:			Wetland Hydrology Present?	
Surface Water Present?	Yes _____ No X	Depth (inches): N/A	Yes X No _____	
Water Table Present?	Yes _____ No X	Depth (inches): >16		
Saturation Present?	Yes X No _____	Depth (inches): 0-16		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:				
Remarks:				
A positive indication of wetland hydrology was observed (at least one primary indicator).				

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-7	10YR 5/1	50	10YR 7/2	40	D	M	Sandy Loam	
			10YR 7/6	10	C	M		
7-16	10YR 5/1	60	10YR 6/2	35	D	M	Sandy Loam	
			10YR 5/8	5	C	M		
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.								
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)						Indicators for Problematic Hydric Soils³:		
☐ Histosol (A1)	☐ Polyvalue Below Surface (S8) (LRR S, T, U)				☐ 1 cm Muck (A9) (LRR O)			
☐ Histic Epipedon (A2)	☐ Thin Dark Surface (S9) (LRR S, T, U)				☐ 2 cm Muck (A10) (LRR S)			
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (LRR O)				☐ Reduced Vertic (F18) (outside MLRA 150A,B)			
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)				☐ Piedmont Floodplain Soils (F19) (LRR P, S, T)			
☐ Stratified Layers (A5)	☐ Depleted Matrix (F3)				☐ Anomalous Bright Loamy Soils (F20)			
☐ Organic Bodies (A6) (LRR P, T, U)	☐ Redox Dark Surface (F6)				☐ (MLRA 153B)			
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)	☐ Depleted Dark Surface (F7)				☐ Red Parent Material (TF2)			
☐ Muck Presence (A8) (LRR U)	☐ Redox Depressions (F8)				☐ Very Shallow Dark Surface (TF12)			
☐ 1 cm Muck (A9) (LRR P, T)	☐ Marl (F10) (LRR U)				☐ Other (Explain in Remarks)			
☐ Depleted Below Dark Surface (A11)	☐ Depleted Ochric (F11) (MLRA 151)							
☐ Thick Dark Surface (A12)	☐ Iron-Manganese Masses (F12) (LRR O, P, T)							
☐ Coast Prairie Redox (A16) (MLRA 150A)	☐ Umbric Surface (F13) (LRR P, T, U)							
☐ Sandy Mucky Mineral (S1) (LRR O, S)	☐ Delta Ochric (F17) (MLRA 151)							
☐ Sandy Gleyed Matrix (S4)	☐ Reduced Vertic (F18) (MLRA 150A, 150B)							
☒ Sandy Redox (S5)	☐ Piedmont Floodplain Soils (F19) (MLRA 149A)							
☒ Stripped Matrix (S6)	☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)							
☐ Dark Surface (S7) (LRR P, S, T, U)								
Restrictive Layer (if observed):						Hydric Soil Present?		
Type: _____						Yes X No _____		
Depth (inches): _____								
Remarks:								
A positive indication of hydric soil was observed.								

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

DP22

	Absolute % cover	Dominant Species	Indicator Status																													
Tree Stratum (Plot size: 30 ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>8</u> (A) Total Number of Dominant Species Across All Strata: <u>9</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>89%</u> (A/B)																												
1. <i>Pinus elliotii</i>	35	Yes	FACW																													
2. <i>Quercus nigra</i>	25	Yes	FAC																													
3. <i>Triadica sebifera</i>	5	No	FAC																													
4. <i>Persea borbonia</i>	5	No	FACW																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	70 = Total Cover																															
50% of total cover:	35	20% of total cover:	14																													
Sapling Stratum (Plot size: 30 ft.)					Prevalence Index Worksheet: <table style="width: 100%;"> <tr> <td colspan="2">Total % Cover of:</td> <td colspan="2">Multiply by:</td> </tr> <tr> <td>OBL species</td> <td><u>0</u></td> <td>x 1 =</td> <td><u>0</u></td> </tr> <tr> <td>FACW species</td> <td><u>92</u></td> <td>x 2 =</td> <td><u>184</u></td> </tr> <tr> <td>FAC species</td> <td><u>67</u></td> <td>x 3 =</td> <td><u>201</u></td> </tr> <tr> <td>FACU species</td> <td><u>5</u></td> <td>x 4 =</td> <td><u>20</u></td> </tr> <tr> <td>UPL species</td> <td><u>0</u></td> <td>x 5 =</td> <td><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>164</u></td> <td>(A)</td> <td><u>405</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>2.47</u>	Total % Cover of:		Multiply by:		OBL species	<u>0</u>	x 1 =	<u>0</u>	FACW species	<u>92</u>	x 2 =	<u>184</u>	FAC species	<u>67</u>	x 3 =	<u>201</u>	FACU species	<u>5</u>	x 4 =	<u>20</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals:	<u>164</u>	(A)
Total % Cover of:		Multiply by:																														
OBL species	<u>0</u>	x 1 =	<u>0</u>																													
FACW species	<u>92</u>	x 2 =	<u>184</u>																													
FAC species	<u>67</u>	x 3 =	<u>201</u>																													
FACU species	<u>5</u>	x 4 =	<u>20</u>																													
UPL species	<u>0</u>	x 5 =	<u>0</u>																													
Column Totals:	<u>164</u>	(A)	<u>405</u> (B)																													
1. <i>Triadica sebifera</i>	10	Yes	FAC																													
2. <i>Quercus nigra</i>	2	No	FAC																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	12 = Total Cover																															
50% of total cover:	6	20% of total cover:	2.4																													
Shrub Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Indicators: ☐ 1 - Rapid Test for Hydrophytic Vegetation ☒ 2 - Dominance Test is >50% ☒ 3 - Prevalence Index is ≤ 3.0 ¹ _____ Problematic Hydrophytic Vegetation ¹ (Explain)																												
1. <i>Ilex glabra</i>	15	Yes	FACW																													
2. <i>Vaccinium arboreum</i>	5	Yes	FACU																													
3. <i>Morella cerifera</i>	2	No	FAC																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	22 = Total Cover																															
50% of total cover:	11	20% of total cover:	4.4																													
Herb Stratum (Plot size: 30 ft.)					Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height.																											
1. <i>Ilex coriacea</i>	15	Yes	FACW																													
2. <i>Ilex vomitoria</i>	10	Yes	FAC																													
3. <i>Panicum repens</i>	10	Yes	FACW																													
4. <i>Toxicodendron radicans</i>	8	No	FAC																													
5. <i>Ilex glabra</i>	5	No	FACW																													
6. <i>Rhynchospora elliotii</i>	5	No	FACW																													
7. <i>Pinus elliotii</i>	2	No	FACW																													
8. _____	_____	_____	_____																													
9. _____	_____	_____	_____																													
10. _____	_____	_____	_____																													
11. _____	_____	_____	_____																													
	55 = Total Cover																															
50% of total cover:	27.5	20% of total cover:	11																													
Woody Vine Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____																												
1. <i>Toxicodendron radicans</i>	5	Yes	FAC																													
2. _____	_____	_____	_____																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
	5 = Total Cover																															
50% of total cover:	2.5	20% of total cover:	1																													
Remarks: (if observed, list morphological adaptations below). A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).																																

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site:	Site 1	County:	Hancock	Sampling Date:	July 20, 2022
Applicant/Owner:	Hancock County Port & Harbor Commission	State:	Mississippi	Sample Point:	DP23
Investigator(s):	Beth Beals and Savannah R. Morales	Section, Township, Range:	Section 30, Township 9S, Range 15W		
Landform (hillslope, terrace, etc.):	Hummocked Plain	Local relief (concave, convex, none):	Convex	Slope (%):	0-5
Subregion (LRR or MLRA):	MLRA 152A, LRR T	Lat:	30.23567	Long:	-89.54187
Soil Map Unit Name:	Ocilla loamy sand, 0-2% slopes	NWI Classification:	None		
Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) No (if no, explain in Remarks.)					
Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes No X					
Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)					

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No	Is the Sampled Area within a Wetland? Yes X No
Hydric Soil Present?	Yes X	No	
Wetland Hydrology Present?	Yes X	No	
Remarks: This point was determined to be within a wetland due to the presence of all three wetland criteria. This location was considered wetter than normal based on results from the USACE's Antecedent Precipitation Tool for this location and date.			

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)		
☐ High Water Table (A2)	☐ Marl Deposits (B15) (LRR U)	☐ Sparsely Vegetated Concave Surface (B8)		
☒ Saturation (A3)	☐ Hydrogen Sulfide Odor (C1)	☐ Drainage Patterns (B10)		
☐ Water Marks (B1)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Moss Trim Lines (B16)		
☐ Sediment Deposits (B2)	☐ Presence of Reduced Iron (C4)	☐ Dry-Season Water Table (C2)		
☐ Drift Deposits (B3)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Crayfish Burrows (C8)		
☐ Algal Mat or Crust (B4)	☐ Thin Muck Surface (C7)	☒ Saturation Visible on Aerial Imagery (C9)		
☐ Iron Deposits (B5)	☐ Other (Explain in Remarks)	☒ Geomorphic Position (D2)		
☐ Inundation Visible on Aerial Imagery (B7)		☒ Shallow Aquitard (D3)		
☐ Water-Stained Leaves (B9)		☒ FAC-Neutral Test (D5)		
		☐ Sphagnum moss (D8) (LRR T, U)		
Field Observations:			Wetland Hydrology Present? Yes X No	
Surface Water Present?	Yes No X	Depth (inches):	N/A	
Water Table Present?	Yes No X	Depth (inches):	>16	
Saturation Present?	Yes X No	Depth (inches):	0-16	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:				
Remarks: A positive indication of wetland hydrology was observed (at least one primary indicator).				

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth (inches)	Matrix		Redox Features			Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	
0-4	10YR 3/1	82	10YR 6/1	15	D	M	Sandy Loam
			10YR 4/6	3	C	M	
4-16	10YR 4/2	75	10YR 6/6	15	C	M	Sandy Loam
	7.5YR 2.5/1	10					Masked sand grains 100%
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.							
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)				Indicators for Problematic Hydric Soils³:			
☐ Histosol (A1)	☐ Polyvalue Below Surface (S8) (LRR S, T, U)			☐ 1 cm Muck (A9) (LRR O)			
☐ Histic Epipedon (A2)	☐ Thin Dark Surface (S9) (LRR S, T, U)			☐ 2 cm Muck (A10) (LRR S)			
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (LRR O)			☐ Reduced Vertic (F18) (outside MLRA 150A,B)			
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)			☐ Piedmont Floodplain Soils (F19) (LRR P, S, T)			
☐ Stratified Layers (A5)	☐ Depleted Matrix (F3)			☐ Anomalous Bright Loamy Soils (F20)			
☐ Organic Bodies (A6) (LRR P, T, U)	☐ Redox Dark Surface (F6)			☐ (MLRA 153B)			
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)	☐ Depleted Dark Surface (F7)			☐ Red Parent Material (TF2)			
☐ Muck Presence (A8) (LRR U)	☐ Redox Depressions (F8)			☐ Very Shallow Dark Surface (TF12)			
☐ 1 cm Muck (A9) (LRR P, T)	☐ Marl (F10) (LRR U)			☐ Other (Explain in Remarks)			
☐ Depleted Below Dark Surface (A11)	☐ Depleted Ochric (F11) (MLRA 151)						
☐ Thick Dark Surface (A12)	☐ Iron-Manganese Masses (F12) (LRR O, P, T)						
☐ Coast Prairie Redox (A16) (MLRA 150A)	☐ Umbric Surface (F13) (LRR P, T, U)						
☐ Sandy Mucky Mineral (S1) (LRR O, S)	☐ Delta Ochric (F17) (MLRA 151)						
☐ Sandy Gleyed Matrix (S4)	☐ Reduced Vertic (F18) (MLRA 150A, 150B)						
☒ Sandy Redox (S5)	☐ Piedmont Floodplain Soils (F19) (MLRA 149A)						
☐ Stripped Matrix (S6)	☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)						
☐ Dark Surface (S7) (LRR P, S, T, U)							
Restrictive Layer (if observed):				Hydric Soil Present? Yes X No			
Type: _____							
Depth (inches): _____							
Remarks: A positive indication of hydric soil was observed.							

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point: **DP23**

	Absolute % cover	Dominant Species	Indicator Status																													
Tree Stratum (Plot size: 30 ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>7</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																												
1. <i>Triadica sebifera</i>	50	Yes	FAC																													
2. <i>Pinus elliotii</i>	30	Yes	FACW																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	80 = Total Cover																															
50% of total cover:	40	20% of total cover:	16																													
Sapling Stratum (Plot size: 30 ft.)					Prevalence Index Worksheet: <table style="width: 100%;"> <tr> <th colspan="2">Total % Cover of:</th> <th colspan="2">Multiply by:</th> </tr> <tr> <td>OBL species</td> <td><u>0</u></td> <td>x 1 =</td> <td><u>0</u></td> </tr> <tr> <td>FACW species</td> <td><u>50</u></td> <td>x 2 =</td> <td><u>100</u></td> </tr> <tr> <td>FAC species</td> <td><u>181</u></td> <td>x 3 =</td> <td><u>543</u></td> </tr> <tr> <td>FACU species</td> <td><u>9</u></td> <td>x 4 =</td> <td><u>36</u></td> </tr> <tr> <td>UPL species</td> <td><u>0</u></td> <td>x 5 =</td> <td><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>240</u></td> <td>(A)</td> <td><u>679</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>2.83</u>	Total % Cover of:		Multiply by:		OBL species	<u>0</u>	x 1 =	<u>0</u>	FACW species	<u>50</u>	x 2 =	<u>100</u>	FAC species	<u>181</u>	x 3 =	<u>543</u>	FACU species	<u>9</u>	x 4 =	<u>36</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals:	<u>240</u>	(A)
Total % Cover of:		Multiply by:																														
OBL species	<u>0</u>	x 1 =	<u>0</u>																													
FACW species	<u>50</u>	x 2 =	<u>100</u>																													
FAC species	<u>181</u>	x 3 =	<u>543</u>																													
FACU species	<u>9</u>	x 4 =	<u>36</u>																													
UPL species	<u>0</u>	x 5 =	<u>0</u>																													
Column Totals:	<u>240</u>	(A)	<u>679</u> (B)																													
1. <i>Morella cerifera</i>	35	Yes	FAC																													
2. <i>Ilex vomitoria</i>	20	Yes	FAC																													
3. <i>Pinus elliotii</i>	10	No	FACW																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	65 = Total Cover																															
50% of total cover:	32.5	20% of total cover:	13																													
Shrub Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Indicators: _____ 1 - Rapid Test for Hydrophytic Vegetation ☒ 2 - Dominance Test is >50% ☒ 3 - Prevalence Index is ≤ 3.0 ¹ _____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																												
1. <i>None Observed</i>																																
2. _____	_____	_____	_____																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	_____ = Total Cover																															
50% of total cover:	_____	20% of total cover:	_____																													
Herb Stratum (Plot size: 30 ft.)					Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height.																											
1. <i>Toxicodendron radicans</i>	30	Yes	FAC																													
2. <i>Triadica sebifera</i>	15	Yes	FAC																													
3. <i>Ilex vomitoria</i>	10	No	FAC																													
4. <i>Chasmanthium laxum</i>	10	No	FACW																													
5. <i>Parthenocissus quinquefolia</i>	5	No	FACU																													
6. <i>Dichanthelium acuminatum</i>	5	No	FAC																													
7. <i>Hypericum perforatum</i>	4	No	FACU																													
8. <i>Ampelopsis arborea</i>	2	No	FAC																													
9. <i>Morella cerifera</i>	2	No	FAC																													
10. _____	_____	_____	_____																													
11. _____	_____	_____	_____																													
	83 = Total Cover																															
50% of total cover:	41.5	20% of total cover:	16.6																													
Woody Vine Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____																												
1. <i>Toxicodendron radicans</i>	10	Yes	FAC																													
2. <i>Vitis rotundifolia</i>	2	No	FAC																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
	12 = Total Cover																															
50% of total cover:	6	20% of total cover:	2.4																													
Remarks: (if observed, list morphological adaptations below). A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).																																

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: _____ Site 1 _____ County: _____ Hancock _____ Sampling Date: _____ July 20, 2022 _____

Applicant/Owner: _____ Hancock County Port & Harbor Commission _____ State: _____ Mississippi _____ Sample Point: _____ DP24 _____

Investigator(s): _____ Beth Beals _____ and _____ Savannah R. Morales _____ Section, Township, Range: _____ Section 30, Township 9S, Range 15W _____

Landform (hillslope, terrace, etc.): _____ Plain _____ Local relief (concave, convex, none): _____ Concave _____ Slope (%): _____ 0-5 _____

Subregion (LRR or MLRA): _____ MLRA 152A, LRR T _____ Lat: _____ 30.23752 _____ Long: _____ -89.54058 _____ Datum: _____ WGS84 _____

Soil Map Unit Name: _____ Ocilla loamy sand, 0-2% slopes _____ NWI Classification: _____ None _____

Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) _____ No _____ (if no, explain in Remarks.) _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No _____ **X** _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ naturally problematic? (If needed, explain any answers in Remarks.) _____

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No _____	Is the Sampled Area within a Wetland?
Hydric Soil Present?	Yes X	No _____	
Wetland Hydrology Present?	Yes X	No _____	
Remarks: This point was determined to be within a wetland due to the presence of all three wetland criteria. This location was considered wetter than normal based on results from the USACE's Antecedent Precipitation Tool for this location and date.			

HYDROLOGY

Wetland hydrology Indicators:				Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is required; check all that apply)							
X Surface Water (A1)	_____ Aquatic Fauna (B13)			_____ Surface Soil Cracks (B6)			
X High Water Table (A2)	_____ Marl Deposits (B15) (LRR U)			X Sparsely Vegetated Concave Surface (B8)			
X Saturation (A3)	_____ Hydrogen Sulfide Odor (C1)			_____ Drainage Patterns (B10)			
_____ Water Marks (B1)	X Oxidized Rhizospheres on Living Roots (C3)			_____ Moss Trim Lines (B16)			
_____ Sediment Deposits (B2)	_____ Presence of Reduced Iron (C4)			_____ Dry-Season Water Table (C2)			
_____ Drift Deposits (B3)	_____ Recent Iron Reduction in Tilled Soils (C6)			_____ Crayfish Burrows (C8)			
_____ Algal Mat or Crust (B4)	_____ Thin Muck Surface (C7)			X Saturation Visible on Aerial Imagery (C9)			
_____ Iron Deposits (B5)	_____ Other (Explain in Remarks)			_____ Geomorphic Position (D2)			
_____ Inundation Visible on Aerial Imagery (B7)				_____ Shallow Aquitard (D3)			
_____ Water-Stained Leaves (B9)				X FAC-Neutral Test (D5)			
				_____ Sphagnum moss (D8) (LRR T, U)			
Field Observations:				Wetland Hydrology Present?			
Surface Water Present?	Yes X No _____	Depth (inches):	1	Yes X No _____			
Water Table Present?	Yes X No _____	Depth (inches):	4				
Saturation Present?	Yes X No _____	Depth (inches):	0-16				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks:							
A positive indication of wetland hydrology was observed (at least one primary indicator).							

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-5	10YR 4/1	70	10YR 5/2	30	D	M	Sandy loam	
5-16	10YR 4/1	60	10YR 5/2	28	D	M	Sandy loam	
	10YR 2/1	10	10YR 4/6	2	C	M		Masked sand grains 75%
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.								
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)						Indicators for Problematic Hydric Soils³:		
_____ Histosol (A1)						_____ 1 cm Muck (A9) (LRR O)		
_____ Histic Epipedon (A2)						_____ 2 cm Muck (A10) (LRR S)		
_____ Black Histic (A3)						_____ Reduced Vertic (F18) (outside MLRA 150A,B)		
_____ Hydrogen Sulfide (A4)						_____ Piedmont Floodplain Soils (F19) (LRR P, S, T)		
_____ Stratified Layers (A5)						_____ Anomalous Bright Loamy Soils (F20)		
_____ Organic Bodies (A6) (LRR P, T, U)						_____ (MLRA 153B)		
_____ 5 cm Mucky Mineral (A7) (LRR P, T, U)						_____ Red Parent Material (TF2)		
_____ Muck Presence (A8) (LRR U)						_____ Very Shallow Dark Surface (TF12)		
_____ 1 cm Muck (A9) (LRR P, T)						_____ Other (Explain in Remarks)		
_____ Depleted Below Dark Surface (A11)								
_____ Thick Dark Surface (A12)								
_____ Coast Prairie Redox (A16) (MLRA 150A)								
_____ Sandy Mucky Mineral (S1) (LRR O, S)								
_____ Sandy Gleyed Matrix (S4)								
X Sandy Redox (S5)								
X Stripped Matrix (S6)								
_____ Dark Surface (S7) (LRR P, S, T, U)								
_____ Polyvalue Below Surface (S8) (LRR S, T, U)								
_____ Thin Dark Surface (S9) (LRR S, T, U)								
_____ Loamy Mucky Mineral (F1) (LRR O)								
_____ Loamy Gleyed Matrix (F2)								
_____ Depleted Matrix (F3)								
_____ Redox Dark Surface (F6)								
_____ Depleted Dark Surface (F7)								
_____ Redox Depressions (F8)								
_____ Marl (F10) (LRR U)								
_____ Depleted Ochric (F11) (MLRA 151)								
_____ Iron-Manganese Masses (F12) (LRR O, P, T)								
_____ Umbric Surface (F13) (LRR P, T, U)								
_____ Delta Ochric (F17) (MLRA 151)								
_____ Reduced Vertic (F18) (MLRA 150A, 150B)								
_____ Piedmont Floodplain Soils (F19) (MLRA 149A)								
_____ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)								
Restrictive Layer (if observed):								
Type: _____								
Depth (inches): _____								
Hydric Soil Present? Yes X No _____								
Remarks:								
A positive indication of hydric soil was observed.								

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point: **DP24**

	Absolute % cover	Dominant Species	Indicator Status															
Tree Stratum (Plot size: 30 ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>9</u> (A) Total Number of Dominant Species Across All Strata: <u>9</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)														
1. <i>Pinus elliotii</i>	10	Yes	FACW															
2. <i>Triadica sebifera</i>	8	Yes	FAC															
3. <i>Acer rubrum</i>	5	No	FAC															
4. <i>Nyssa sylvatica</i>	5	No	FAC															
5. _____	_____	_____	_____															
6. _____	_____	_____	_____															
	28 = Total Cover																	
50% of total cover: 14		20% of total cover: 5.6																
Sapling Stratum (Plot size: 30 ft.)					Prevalence Index Worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>20</u></td> <td>x 1 = <u>20</u></td> </tr> <tr> <td>FACW species <u>94</u></td> <td>x 2 = <u>188</u></td> </tr> <tr> <td>FAC species <u>69</u></td> <td>x 3 = <u>207</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>183</u></td> <td>(A) <u>415</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>2.27</u>	Total % Cover of:	Multiply by:	OBL species <u>20</u>	x 1 = <u>20</u>	FACW species <u>94</u>	x 2 = <u>188</u>	FAC species <u>69</u>	x 3 = <u>207</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>183</u>
Total % Cover of:	Multiply by:																	
OBL species <u>20</u>	x 1 = <u>20</u>																	
FACW species <u>94</u>	x 2 = <u>188</u>																	
FAC species <u>69</u>	x 3 = <u>207</u>																	
FACU species <u>0</u>	x 4 = <u>0</u>																	
UPL species <u>0</u>	x 5 = <u>0</u>																	
Column Totals: <u>183</u>	(A) <u>415</u> (B)																	
1. <i>Morella cerifera</i>	10	Yes	FAC															
2. <i>Nyssa sylvatica</i>	8	Yes	FAC															
3. <i>Pinus elliotii</i>	5	No	FACW															
4. <i>Acer rubrum</i>	5	No	FAC															
5. _____	_____	_____	_____															
6. _____	_____	_____	_____															
	28 = Total Cover																	
50% of total cover: 14		20% of total cover: 5.6																
Shrub Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Indicators: ☐ 1 - Rapid Test for Hydrophytic Vegetation ☒ 2 - Dominance Test is >50% ☒ 3 - Prevalence Index is ≤ 3.0 ¹ _____ Problematic Hydrophytic Vegetation ¹ (Explain)														
1. <i>Acer rubrum</i>	5	Yes	FAC															
2. <i>Magnolia virginiana</i>	2	Yes	FACW															
3. _____	_____	_____	_____															
4. _____	_____	_____	_____															
5. _____	_____	_____	_____															
6. _____	_____	_____	_____															
	7 = Total Cover																	
50% of total cover: 3.5		20% of total cover: 1.4																
Herb Stratum (Plot size: 30 ft.)					Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height.													
1. <i>Rhynchospora elliotii</i>	40	Yes	FACW															
2. <i>Andropogon mohrii</i>	25	Yes	FACW															
3. <i>Xyris laxifolia</i>	15	No	OBL															
4. <i>Ilex glabra</i>	10	No	FACW															
5. <i>Toxicodendron radicans</i>	10	No	FAC															
6. <i>Dichanthelium acuminatum</i>	8	No	FAC															
7. <i>Hypericum tetrapetalum</i>	5	No	OBL															
8. <i>Persea borbonia</i>	2	No	FACW															
9. _____	_____	_____	_____															
10. _____	_____	_____	_____															
11. _____	_____	_____	_____															
	115 = Total Cover																	
50% of total cover: 57.5		20% of total cover: 23																
Woody Vine Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____														
1. <i>Toxicodendron radicans</i>	5	Yes	FAC															
2. _____	_____	_____	_____															
3. _____	_____	_____	_____															
4. _____	_____	_____	_____															
5. _____	_____	_____	_____															
	5 = Total Cover																	
50% of total cover: 2.5		20% of total cover: 1																

Remarks: (if observed, list morphological adaptations below).

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: _____ Site 1 _____ County: _____ Hancock _____ Sampling Date: _____ July 27, 2022 _____

Applicant/Owner: _____ Hancock County Port & Harbor Commission _____ State: _____ Mississippi _____ Sample Point: _____ DP25 _____

Investigator(s): _____ Beth Beals _____ and _____ Savannah R. Morales _____ Section, Township, Range: _____ Section 25, Township 9S, Range 16W _____

Landform (hillslope, terrace, etc.): _____ Plain _____ Local relief (concave, convex, none): _____ None _____ Slope (%): _____ 0-5 _____

Subregion (LRR or MLRA): _____ MLRA 152A, LRR T _____ Lat: _____ 30.23704 _____ Long: _____ -89.54840 _____ Datum: _____ WGS84 _____

Soil Map Unit Name: _____ Ocilla loamy sand, 0-2% slopes _____ NWI Classification: _____ None _____

Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) _____ Yes _____ (if no, explain in Remarks.) _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ X _____ No _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ naturally problematic? (If needed, explain any answers in Remarks.) _____

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u>	No _____	
Wetland Hydrology Present?	Yes <u>X</u>	No _____	
Remarks: This point was determined to be within a wetland due to the presence of all three wetland criteria.			

HYDROLOGY

Wetland hydrology indicators: Primary Indicators (minimum of one is required; check all that apply)				Secondary Indicators (minimum of two required)			
☐ Surface Water (A1) ☐ High Water Table (A2) ☒ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B2) ☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial Imagery (B7) ☒ Water-Stained Leaves (B9)	☐ Aquatic Fauna (B13) ☐ Marl Deposits (B15) (LRR U) ☐ Hydrogen Sulfide Odor (C1) ☒ Oxidized Rhizospheres on Living Roots (C3) ☐ Presence of Reduced Iron (C4) ☐ Recent Iron Reduction in Tilled Soils (C6) ☐ Thin Muck Surface (C7) ☐ Other (Explain in Remarks)	☐ Surface Soil Cracks (B6) ☐ Sparsely Vegetated Concave Surface (B8) ☐ Drainage Patterns (B10) ☐ Moss Trim Lines (B16) ☐ Dry-Season Water Table (C2) ☐ Crayfish Burrows (C8) ☐ Saturation Visible on Aerial Imagery (C9) ☐ Geomorphic Position (D2) ☐ Shallow Aquitard (D3) ☒ FAC-Neutral Test (D5) ☐ Sphagnum moss (D8) (LRR T, U)					
Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): <u>N/A</u> Water Table Present? Yes _____ No <u>X</u> Depth (inches): <u>>16</u> Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>0-16</u>				Wetland Hydrology Present? Yes <u>X</u> No _____			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks: A positive indication of wetland hydrology was observed (at least one primary indicator).							

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)														
Depth (inches)	Matrix		Redox Features				Texture	Remarks						
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²								
0-12	7.5YR 2.5/1	75					Sandy loam							
	10YR 4/2	25												
12-16	10YR 5/2	80	10YR 6/6	5	C	M	Sandy loam							
	10YR 2/1	10	10YR 4/6	5	C	PL								
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix.														
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)						Indicators for Problematic Hydric Soils³:								
☐ Histosol (A1) ☐ Histic Epipedon (A2) ☐ Black Histic (A3) ☐ Hydrogen Sulfide (A4) ☐ Stratified Layers (A5) ☐ Organic Bodies (A6) (LRR P, T, U) ☐ 5 cm Mucky Mineral (A7) (LRR P, T, U) ☐ Muck Presence (A8) (LRR U) ☐ 1 cm Muck (A9) (LRR P, T) ☐ Depleted Below Dark Surface (A11) ☐ Thick Dark Surface (A12) ☐ Coast Prairie Redox (A16) (MLRA 150A) ☐ Sandy Mucky Mineral (S1) (LRR O, S) ☐ Sandy Gleyed Matrix (S4) ☐ Sandy Redox (S5) ☐ Stripped Matrix (S6) ☒ Dark Surface (S7) (LRR P, S, T, U)						☐ Polyvalue Below Surface (S8) (LRR S, T, U) ☐ Thin Dark Surface (S9) (LRR S, T, U) ☐ Loamy Mucky Mineral (F1) (LRR O) ☐ Loamy Gleyed Matrix (F2) ☐ Depleted Matrix (F3) ☐ Redox Dark Surface (F6) ☐ Depleted Dark Surface (F7) ☐ Redox Depressions (F8) ☐ Marl (F10) (LRR U) ☐ Depleted Ochric (F11) (MLRA 151) ☐ Iron-Manganese Masses (F12) (LRR O, P, T) ☐ Umbric Surface (F13) (LRR P, T, U) ☐ Delta Ochric (F17) (MLRA 151) ☐ Reduced Vertic (F18) (MLRA 150A, 150B) ☐ Piedmont Floodplain Soils (F19) (MLRA 149A) ☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)						☐ 1 cm Muck (A9) (LRR O) ☐ 2 cm Muck (A10) (LRR S) ☐ Reduced Vertic (F18) (outside MLRA 150A,B) ☐ Piedmont Floodplain Soils (F19) (LRR P, S, T) ☐ Anomalous Bright Loamy Soils (F20) ☐ (MLRA 153B) ☐ Red Parent Material (TF2) ☐ Very Shallow Dark Surface (TF12) ☐ Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.		
Restrictive Layer (if observed): Type: _____ Depth (inches): _____							Hydric Soil Present? Yes <u>X</u> No _____							
Remarks: A positive indication of hydric soil was observed.														

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

DP25

	Absolute % cover	Dominant Species	Indicator Status																													
Tree Stratum (Plot size: <u>30</u> ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>8</u> (A) Total Number of Dominant Species Across All Strata: <u>8</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																												
1. <i>Magnolia virginiana</i>	50	Yes	FACW																													
2. <i>Pinus elliotii</i>	30	Yes	FACW																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	80 = Total Cover																															
50% of total cover:	40	20% of total cover:	16																													
Sapling Stratum (Plot size: <u>30</u> ft.)					Prevalence Index Worksheet: <table style="width: 100%;"> <tr> <th colspan="2">Total % Cover of:</th> <th colspan="2">Multiply by:</th> </tr> <tr> <td>OBL species</td> <td><u>15</u></td> <td>x 1 =</td> <td><u>15</u></td> </tr> <tr> <td>FACW species</td> <td><u>211</u></td> <td>x 2 =</td> <td><u>422</u></td> </tr> <tr> <td>FAC species</td> <td><u>15</u></td> <td>x 3 =</td> <td><u>45</u></td> </tr> <tr> <td>FACU species</td> <td><u>0</u></td> <td>x 4 =</td> <td><u>0</u></td> </tr> <tr> <td>UPL species</td> <td><u>0</u></td> <td>x 5 =</td> <td><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>241</u></td> <td>(A)</td> <td><u>482</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>2.00</u>	Total % Cover of:		Multiply by:		OBL species	<u>15</u>	x 1 =	<u>15</u>	FACW species	<u>211</u>	x 2 =	<u>422</u>	FAC species	<u>15</u>	x 3 =	<u>45</u>	FACU species	<u>0</u>	x 4 =	<u>0</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals:	<u>241</u>	(A)
Total % Cover of:		Multiply by:																														
OBL species	<u>15</u>	x 1 =	<u>15</u>																													
FACW species	<u>211</u>	x 2 =	<u>422</u>																													
FAC species	<u>15</u>	x 3 =	<u>45</u>																													
FACU species	<u>0</u>	x 4 =	<u>0</u>																													
UPL species	<u>0</u>	x 5 =	<u>0</u>																													
Column Totals:	<u>241</u>	(A)	<u>482</u> (B)																													
1. <i>Morella cerifera</i>	5	Yes	FAC																													
2. <i>Acer rubrum</i>	2	Yes	FAC																													
3. <i>Persea borbonia</i>	2	Yes	FACW																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	9 = Total Cover																															
50% of total cover:	4.5	20% of total cover:	1.8																													
Shrub Stratum (Plot size: <u>30</u> ft.)				Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> X </u> 2 - Dominance Test is >50% <u> X </u> 3 - Prevalence Index is ≤ 3.0 ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)																												
1. <i>Ilex glabra</i>	15	Yes	FACW																													
2. <i>Morella cerifera</i>	5	Yes	FAC																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	20 = Total Cover																															
50% of total cover:	10	20% of total cover:	4																													
Herb Stratum (Plot size: <u>30</u> ft.)					Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height.																											
1. <i>Osmundastrum cinnamomeum</i>	80	Yes	FACW																													
2. <i>Ilex glabra</i>	15	No	FACW																													
3. <i>Eriocaulon decangulare</i>	10	No	OBL																													
4. <i>Rhynchospora elliotii</i>	8	No	FACW																													
5. <i>Ilex coriacea</i>	5	No	FACW																													
6. <i>Carex glaucescens</i>	5	No	OBL																													
7. <i>Dichantherium acuminatum</i>	3	No	FAC																													
8. <i>Magnolia virginiana</i>	2	No	FACW																													
9. <i>Lyonia lucida</i>	2	No	FACW																													
10. <i>Smilax laurifolia</i>	2	No	FACW																													
11. _____	_____	_____	_____																													
	132 = Total Cover																															
50% of total cover:	66	20% of total cover:	26.4																													
Woody Vine Stratum (Plot size: <u>30</u> ft.)				Hydrophytic Vegetation Present? Yes <u> X </u> No <u> </u>																												
1. <i>None Observed</i>																																
2. _____	_____	_____	_____																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
	_____ = Total Cover																															
50% of total cover:	_____	20% of total cover:	_____																													

Remarks: (if observed, list morphological adaptations below).

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: _____ Site 1 _____ County: _____ Hancock _____ Sampling Date: _____ July 27, 2022 _____

Applicant/Owner: _____ Hancock County Port & Harbor Commission _____ State: _____ Mississippi _____ Sample Point: _____ DP26 _____

Investigator(s): _____ Beth Beals _____ and _____ Savannah R. Morales _____ Section, Township, Range: _____ Section 25, Township 9S, Range 16W _____

Landform (hillslope, terrace, etc.): _____ Plain _____ Local relief (concave, convex, none): _____ None _____ Slope (%): _____ 0-5 _____

Subregion (LRR or MLRA): _____ MLRA 152A, LRR T _____ Lat: _____ 30.23465 _____ Long: _____ -89.54695 _____ Datum: _____ WGS84 _____

Soil Map Unit Name: _____ Smithon Association, FF, 0-2% slopes _____ NWI Classification: _____ None _____

Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) _____ Yes _____ (if no, explain in Remarks.) _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ X _____ No _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ naturally problematic? (If needed, explain any answers in Remarks.) _____

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u>	No _____	
Wetland Hydrology Present?	Yes <u>X</u>	No _____	
Remarks: This point was determined to be within a wetland due to the presence of all three wetland criteria.			

HYDROLOGY

Wetland hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)				Secondary Indicators (minimum of two required)			
☐ Surface Water (A1) ☐ High Water Table (A2) ☒ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B2) ☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial Imagery (B7) ☐ Water-Stained Leaves (B9)	☐ Aquatic Fauna (B13) ☐ Marl Deposits (B15) (LRR U) ☐ Hydrogen Sulfide Odor (C1) ☒ Oxidized Rhizospheres on Living Roots (C3) ☐ Presence of Reduced Iron (C4) ☐ Recent Iron Reduction in Tilled Soils (C6) ☐ Thin Muck Surface (C7) ☐ Other (Explain in Remarks)	☐ Surface Soil Cracks (B6) ☐ Sparsely Vegetated Concave Surface (B8) ☐ Drainage Patterns (B10) ☐ Moss Trim Lines (B16) ☐ Dry-Season Water Table (C2) ☐ Crayfish Burrows (C8) ☐ Saturation Visible on Aerial Imagery (C9) ☐ Geomorphic Position (D2) ☐ Shallow Aquitard (D3) ☒ FAC-Neutral Test (D5) ☐ Sphagnum moss (D8) (LRR T, U)					
Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): <u>N/A</u> Water Table Present? Yes _____ No <u>X</u> Depth (inches): <u>>16</u> Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>3-16</u>				Wetland Hydrology Present? Yes <u>X</u> No _____			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks: A positive indication of wetland hydrology was observed (at least one primary indicator).							

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth (inches)	Matrix		Redox Features				Texture	Remarks	
0-6	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Sandy Loam		
	10YR 3/1	30	10YR 6/3	5	C	M			
6-16	10YR 4/1	65							
	10YR 4/1	72	10YR 5/4	10	C	M	Sandy loam		
	10YR 6/1	10	7.5YR 4/6	8	C	PL			
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix.									
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)								Indicators for Problematic Hydric Soils³:	
☐ Histosol (A1) ☐ Histic Epipedon (A2) ☐ Black Histic (A3) ☐ Hydrogen Sulfide (A4) ☐ Stratified Layers (A5) ☐ Organic Bodies (A6) (LRR P, T, U) ☐ 5 cm Mucky Mineral (A7) (LRR P, T, U) ☐ Muck Presence (A8) (LRR U) ☐ 1 cm Muck (A9) (LRR P, T) ☐ Depleted Below Dark Surface (A11) ☐ Thick Dark Surface (A12) ☐ Coast Prairie Redox (A16) (MLRA 150A) ☐ Sandy Mucky Mineral (S1) (LRR O, S) ☐ Sandy Gleyed Matrix (S4) ☒ Sandy Redox (S5) ☐ Stripped Matrix (S6) ☐ Dark Surface (S7) (LRR P, S, T, U)				☐ Polyvalue Below Surface (S8) (LRR S, T, U) ☐ Thin Dark Surface (S9) (LRR S, T, U) ☐ Loamy Mucky Mineral (F1) (LRR O) ☐ Loamy Gleyed Matrix (F2) ☐ Depleted Matrix (F3) ☐ Redox Dark Surface (F6) ☐ Depleted Dark Surface (F7) ☐ Redox Depressions (F8) ☐ Marl (F10) (LRR U) ☐ Depleted Ochric (F11) (MLRA 151) ☐ Iron-Manganese Masses (F12) (LRR O, P, T) ☐ Umbric Surface (F13) (LRR P, T, U) ☐ Delta Ochric (F17) (MLRA 151) ☐ Reduced Vertic (F18) (MLRA 150A, 150B) ☐ Piedmont Floodplain Soils (F19) (MLRA 149A) ☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)				☐ 1 cm Muck (A9) (LRR O) ☐ 2 cm Muck (A10) (LRR S) ☐ Reduced Vertic (F18) (outside MLRA 150A,B) ☐ Piedmont Floodplain Soils (F19) (LRR P, S, T) ☐ Anomalous Bright Loamy Soils (F20) ☐ (MLRA 153B) ☐ Red Parent Material (TF2) ☐ Very Shallow Dark Surface (TF12) ☐ Other (Explain in Remarks)	
Restrictive Layer (if observed): Type: _____ Depth (inches): _____								Hydric Soil Present? Yes <u>X</u> No _____	
Remarks: A positive indication of hydric soil was observed.									

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

DP26

	Absolute % cover	Dominant Species	Indicator Status																													
Tree Stratum (Plot size: 30 ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>10</u> (A) Total Number of Dominant Species Across All Strata: <u>10</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																												
1. <i>Quercus nigra</i>	25	Yes	FAC																													
2. <i>Pinus elliotii</i>	15	Yes	FACW																													
3. <i>Magnolia virginiana</i>	15	Yes	FACW																													
4. <i>Quercus virginiana</i>	10	No	FACU																													
5. <i>Nyssa sylvatica</i>	8	No	FAC																													
6. _____																																
	73 = Total Cover																															
50% of total cover: 36.5		20% of total cover: 14.6																														
Sapling Stratum (Plot size: 30 ft.)					Prevalence Index Worksheet: <table style="width: 100%;"> <tr> <th colspan="2">Total % Cover of:</th> <th colspan="2">Multiply by:</th> </tr> <tr> <td>OBL species</td> <td><u>0</u></td> <td>x 1 =</td> <td><u>0</u></td> </tr> <tr> <td>FACW species</td> <td><u>100</u></td> <td>x 2 =</td> <td><u>200</u></td> </tr> <tr> <td>FAC species</td> <td><u>84</u></td> <td>x 3 =</td> <td><u>252</u></td> </tr> <tr> <td>FACU species</td> <td><u>10</u></td> <td>x 4 =</td> <td><u>40</u></td> </tr> <tr> <td>UPL species</td> <td><u>0</u></td> <td>x 5 =</td> <td><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>194</u></td> <td>(A)</td> <td><u>492</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>2.54</u>	Total % Cover of:		Multiply by:		OBL species	<u>0</u>	x 1 =	<u>0</u>	FACW species	<u>100</u>	x 2 =	<u>200</u>	FAC species	<u>84</u>	x 3 =	<u>252</u>	FACU species	<u>10</u>	x 4 =	<u>40</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals:	<u>194</u>	(A)
Total % Cover of:		Multiply by:																														
OBL species	<u>0</u>	x 1 =	<u>0</u>																													
FACW species	<u>100</u>	x 2 =	<u>200</u>																													
FAC species	<u>84</u>	x 3 =	<u>252</u>																													
FACU species	<u>10</u>	x 4 =	<u>40</u>																													
UPL species	<u>0</u>	x 5 =	<u>0</u>																													
Column Totals:	<u>194</u>	(A)	<u>492</u> (B)																													
1. <i>Magnolia virginiana</i>	5	Yes	FACW																													
2. <i>Ilex coriacea</i>	3	Yes	FACW																													
3. _____																																
4. _____																																
5. _____																																
6. _____																																
	8 = Total Cover																															
50% of total cover: 4		20% of total cover: 1.6																														
Shrub Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Indicators: ☐ 1 - Rapid Test for Hydrophytic Vegetation ☒ 2 - Dominance Test is >50% ☒ 3 - Prevalence Index is ≤ 3.0 ¹ _____ Problematic Hydrophytic Vegetation ¹ (Explain)																												
1. <i>Pinus elliotii</i>	20	Yes	FACW																													
2. <i>Ilex coriacea</i>	15	Yes	FACW																													
3. <i>Ilex vomitoria</i>	10	No	FAC																													
4. <i>Morella cerifera</i>	8	No	FAC																													
5. _____																																
6. _____																																
	53 = Total Cover																															
50% of total cover: 26.5		20% of total cover: 10.6																														
Herb Stratum (Plot size: 30 ft.)					Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height.																											
1. <i>Ilex glabra</i>	20	Yes	FACW																													
2. <i>Vitis rotundifolia</i>	8	Yes	FAC																													
3. <i>Ilex coriacea</i>	5	No	FACW																													
4. <i>Toxicodendron radicans</i>	5	No	FAC																													
5. <i>Dichanthelium acuminatum</i>	3	No	FAC																													
6. <i>Quercus nigra</i>	2	No	FAC																													
7. <i>Rhynchospora elliotii</i>	2	No	FACW																													
8. _____																																
9. _____																																
10. _____																																
11. _____																																
	45 = Total Cover																															
50% of total cover: 22.5		20% of total cover: 9																														
Woody Vine Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____																												
1. <i>Vitis rotundifolia</i>	15	Yes	FAC																													
2. _____																																
3. _____																																
4. _____																																
5. _____																																
	15 = Total Cover																															
50% of total cover: 7.5		20% of total cover: 3																														
Remarks: (if observed, list morphological adaptations below). A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).																																

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site:	Site 1	County:	Hancock	Sampling Date:	July 27, 2022
Applicant/Owner:	Hancock County Port & Harbor Commission	State:	Mississippi	Sample Point:	DP27
Investigator(s):	Beth Beals and Savannah R. Morales	Section, Township, Range:	Section 19, Township 9S, Range 15W		
Landform (hillslope, terrace, etc.):	Flat	Local relief (concave, convex, none):	None	Slope (%):	0-5
Subregion (LRR or MLRA):	MLRA 152A, LRR T	Lat:	30.24004	Long:	-89.54212
Soil Map Unit Name:	Atmore silt loam, 0-2% slopes	Datum:	WGS84	NWI Classification:	None
Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) Yes (if no, explain in Remarks.)					
Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No					
Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)					

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No	Is the Sampled Area within a Wetland?	Yes	No X
Hydric Soil Present?	Yes	No X			
Wetland Hydrology Present?	Yes	No X			
Remarks: This point was determined not to be within a wetland due to the lack of hydric soils and wetland hydrology.					

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)			
☐ High Water Table (A2)	☐ Marl Deposits (B15) (LRR U)	☐ Sparsely Vegetated Concave Surface (B8)			
☐ Saturation (A3)	☐ Hydrogen Sulfide Odor (C1)	☐ Drainage Patterns (B10)			
☐ Water Marks (B1)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Moss Trim Lines (B16)			
☐ Sediment Deposits (B2)	☐ Presence of Reduced Iron (C4)	☐ Dry-Season Water Table (C2)			
☐ Drift Deposits (B3)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Crayfish Burrows (C8)			
☐ Algal Mat or Crust (B4)	☐ Thin Muck Surface (C7)	☐ Saturation Visible on Aerial Imagery (C9)			
☐ Iron Deposits (B5)	☐ Other (Explain in Remarks)	☐ Geomorphic Position (D2)			
☐ Inundation Visible on Aerial Imagery (B7)		☐ Shallow Aquitard (D3)			
☐ Water-Stained Leaves (B9)		☐ FAC-Neutral Test (D5)			
				☐ Sphagnum moss (D8) (LRR T, U)	
Field Observations:				Wetland Hydrology Present?	
Surface Water Present?	Yes No X	Depth (inches):	N/A	Yes	No X
Water Table Present?	Yes No X	Depth (inches):	N/A		
Saturation Present?	Yes No X	Depth (inches):	N/A		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks: No positive indication of wetland hydrology was observed.					

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	10YR 4/3	100					Sandy Loam	
6-16	10YR 4/4	60					Sandy Loam	
	10YR 4/3	40						
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.								
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)								Indicators for Problematic Hydric Soils³:
☐ Histosol (A1)	☐ Polyvalue Below Surface (S8) (LRR S, T, U)	☐ 1 cm Muck (A9) (LRR O)						
☐ Histic Epipedon (A2)	☐ Thin Dark Surface (S9) (LRR S, T, U)	☐ 2 cm Muck (A10) (LRR S)						
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (LRR O)	☐ Reduced Vertic (F18) (outside MLRA 150A,B)						
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)	☐ Piedmont Floodplain Soils (F19) (LRR P, S, T)						
☐ Stratified Layers (A5)	☐ Depleted Matrix (F3)	☐ Anomalous Bright Loamy Soils (F20)						
☐ Organic Bodies (A6) (LRR P, T, U)	☐ Redox Dark Surface (F6)	☐ (MLRA 153B)						
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)	☐ Depleted Dark Surface (F7)	☐ Red Parent Material (TF2)						
☐ Muck Presence (A8) (LRR U)	☐ Redox Depressions (F8)	☐ Very Shallow Dark Surface (TF12)						
☐ 1 cm Muck (A9) (LRR P, T)	☐ Marl (F10) (LRR U)	☐ Other (Explain in Remarks)						
☐ Depleted Below Dark Surface (A11)	☐ Depleted Ochric (F11) (MLRA 151)							
☐ Thick Dark Surface (A12)	☐ Iron-Manganese Masses (F12) (LRR O, P, T)							
☐ Coast Prairie Redox (A16) (MLRA 150A)	☐ Umbric Surface (F13) (LRR P, T, U)							
☐ Sandy Mucky Mineral (S1) (LRR O, S)	☐ Delta Ochric (F17) (MLRA 151)							
☐ Sandy Gleyed Matrix (S4)	☐ Reduced Vertic (F18) (MLRA 150A, 150B)							
☐ Sandy Redox (S5)	☐ Piedmont Floodplain Soils (F19) (MLRA 149A)							
☐ Stripped Matrix (S6)	☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)							
☐ Dark Surface (S7) (LRR P, S, T, U)								
Restrictive Layer (if observed):								Hydric Soil Present?
Type: _____								Yes _____ No X
Depth (inches): _____								
Remarks: No positive indication of hydric soils was observed.								

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

DP27

	Absolute % cover	Dominant Species	Indicator Status																																				
Tree Stratum (Plot size: 30 ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>10</u> (A) Total Number of Dominant Species Across All Strata: <u>10</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																																			
1. <i>Nyssa sylvatica</i>	60	Yes	FAC																																				
2. <i>Quercus nigra</i>	15	No	FAC																																				
3. <i>Ilex vomitoria</i>	5	No	FAC																																				
4. <i>Quercus stellata</i>	5	No	UPL																																				
5. _____																																							
6. _____																																							
	85	= Total Cover																																					
50% of total cover:	42.5	20% of total cover: <u>17</u>																																					
Sapling Stratum (Plot size: 30 ft.)					Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 40%; text-align: left;">Total % Cover of:</th> <th style="width: 10%;"></th> <th style="width: 10%; text-align: center;">Multiply by:</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> <tr> <td>OBL species</td> <td style="text-align: center;">0</td> <td>x 1 =</td> <td style="text-align: center;">0</td> <td></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;">0</td> <td>x 2 =</td> <td style="text-align: center;">0</td> <td></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;">153</td> <td>x 3 =</td> <td style="text-align: center;">459</td> <td></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;">2</td> <td>x 4 =</td> <td style="text-align: center;">8</td> <td></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;">5</td> <td>x 5 =</td> <td style="text-align: center;">25</td> <td></td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;">160</td> <td>(A)</td> <td style="text-align: center;">492</td> <td>(B)</td> </tr> </table> Prevalence Index = B/A = <u>3.08</u>	Total % Cover of:		Multiply by:			OBL species	0	x 1 =	0		FACW species	0	x 2 =	0		FAC species	153	x 3 =	459		FACU species	2	x 4 =	8		UPL species	5	x 5 =	25		Column Totals:	160	(A)	492
Total % Cover of:		Multiply by:																																					
OBL species	0	x 1 =	0																																				
FACW species	0	x 2 =	0																																				
FAC species	153	x 3 =	459																																				
FACU species	2	x 4 =	8																																				
UPL species	5	x 5 =	25																																				
Column Totals:	160	(A)	492	(B)																																			
1. <i>Acer rubrum</i>	10	Yes	FAC																																				
2. <i>Ilex vomitoria</i>	5	Yes	FAC																																				
3. _____																																							
4. _____																																							
5. _____																																							
6. _____																																							
	15	= Total Cover																																					
50% of total cover:	7.5	20% of total cover: <u>3</u>																																					
Shrub Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Indicators: ☐ 1 - Rapid Test for Hydrophytic Vegetation ☒ 2 - Dominance Test is >50% ☐ 3 - Prevalence Index is ≤ 3.0 ¹ ☐ Problematic Hydrophytic Vegetation ¹ (Explain)																																			
1. <i>Ilex vomitoria</i>	5	Yes	FAC																																				
2. <i>Symplocos tinctoria</i>	5	Yes	FAC																																				
3. <i>Morella cerifera</i>	3	Yes	FAC																																				
4. <i>Ilex opaca</i>	2	No	FAC																																				
5. _____																																							
6. _____																																							
	15	= Total Cover																																					
50% of total cover:	7.5	20% of total cover: <u>3</u>																																					
Herb Stratum (Plot size: 30 ft.)					Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height.																																		
1. <i>Ilex vomitoria</i>	15	Yes	FAC																																				
2. <i>Vitis rotundifolia</i>	10	Yes	FAC																																				
3. <i>Chasmanthium sessiliflorum</i>	8	Yes	FAC																																				
4. <i>Smilax bona-nox</i>	3	No	FAC																																				
5. <i>Acer rubrum</i>	2	No	FAC																																				
6. <i>Vaccinium arboreum</i>	2	No	FACU																																				
7. _____																																							
8. _____																																							
9. _____																																							
10. _____																																							
11. _____																																							
	40	= Total Cover																																					
50% of total cover:	20	20% of total cover: <u>8</u>																																					
Woody Vine Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____																																			
1. <i>Toxicodendron radicans</i>	5	Yes	FAC																																				
2. _____																																							
3. _____																																							
4. _____																																							
5. _____																																							
	5	= Total Cover																																					
50% of total cover:	2.5	20% of total cover: <u>1</u>																																					
Remarks: (if observed, list morphological adaptations below). A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).																																							

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: _____ Site 1 _____ County: _____ Hancock _____ Sampling Date: _____ July 27, 2022 _____

Applicant/Owner: _____ Hancock County Port & Harbor Commission _____ State: _____ Mississippi _____ Sample Point: _____ DP28 _____

Investigator(s): _____ Beth Beals _____ and _____ Savannah R. Morales _____ Section, Township, Range: _____ Section 19, Township 9S, Range 15W _____

Landform (hillslope, terrace, etc.): _____ Ridge _____ Local relief (concave, convex, none): _____ None _____ Slope (%): _____ 0-5 _____

Subregion (LRR or MLRA): _____ MLRA 152A, LRR T _____ Lat: _____ 30.24106 _____ Long: _____ -89.54432 _____ Datum: _____ WGS84 _____

Soil Map Unit Name: _____ Harleston fine sandy loam, 0-2% slopes _____ NWI Classification: _____ None _____

Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) _____ Yes _____ (if no, explain in Remarks.) _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ X _____ No _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ naturally problematic? (If needed, explain any answers in Remarks.) _____

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>	
Wetland Hydrology Present?	Yes _____	No <u>X</u>	
Remarks: This point was determined not to be within a wetland due to the lack of hydric soils and wetland hydrology.			

HYDROLOGY

Wetland hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)				Secondary Indicators (minimum of two required)			
☐ Surface Water (A1) ☐ High Water Table (A2) ☐ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B2) ☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial Imagery (B7) ☐ Water-Stained Leaves (B9)	☐ Aquatic Fauna (B13) ☐ Marl Deposits (B15) (LRR U) ☐ Hydrogen Sulfide Odor (C1) ☐ Oxidized Rhizospheres on Living Roots (C3) ☐ Presence of Reduced Iron (C4) ☐ Recent Iron Reduction in Tilled Soils (C6) ☐ Thin Muck Surface (C7) ☐ Other (Explain in Remarks)	☐ Surface Soil Cracks (B6) ☐ Sparsely Vegetated Concave Surface (B8) ☐ Drainage Patterns (B10) ☐ Moss Trim Lines (B16) ☐ Dry-Season Water Table (C2) ☐ Crayfish Burrows (C8) ☐ Saturation Visible on Aerial Imagery (C9) ☐ Geomorphic Position (D2) ☐ Shallow Aquitard (D3) ☐ FAC-Neutral Test (D5) ☐ Sphagnum moss (D8) (LRR T, U)					
Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): <u>N/A</u> Water Table Present? Yes _____ No <u>X</u> Depth (inches): <u>N/A</u> Saturation Present? Yes _____ No <u>X</u> Depth (inches): <u>N/A</u>				Wetland Hydrology Present? Yes _____ No <u>X</u>			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks: No positive indication of wetland hydrology was observed.							

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)														
Depth (inches)	Matrix		Redox Features				Texture	Remarks						
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²								
0-16	10YR 4/3	90					Sandy Loam							
	10YR 5/4	10												
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.														
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)						Indicators for Problematic Hydric Soils³:								
☐ Histosol (A1) ☐ Histic Epipedon (A2) ☐ Black Histic (A3) ☐ Hydrogen Sulfide (A4) ☐ Stratified Layers (A5) ☐ Organic Bodies (A6) (LRR P, T, U) ☐ 5 cm Mucky Mineral (A7) (LRR P, T, U) ☐ Muck Presence (A8) (LRR U) ☐ 1 cm Muck (A9) (LRR P, T) ☐ Depleted Below Dark Surface (A11) ☐ Thick Dark Surface (A12) ☐ Coast Prairie Redox (A16) (MLRA 150A) ☐ Sandy Mucky Mineral (S1) (LRR O, S) ☐ Sandy Gleyed Matrix (S4) ☐ Sandy Redox (S5) ☐ Stripped Matrix (S6) ☐ Dark Surface (S7) (LRR P, S, T, U)						☐ Polyvalue Below Surface (S8) (LRR S, T, U) ☐ Thin Dark Surface (S9) (LRR S, T, U) ☐ Loamy Mucky Mineral (F1) (LRR O) ☐ Loamy Gleyed Matrix (F2) ☐ Depleted Matrix (F3) ☐ Redox Dark Surface (F6) ☐ Depleted Dark Surface (F7) ☐ Redox Depressions (F8) ☐ Marl (F10) (LRR U) ☐ Depleted Ochric (F11) (MLRA 151) ☐ Iron-Manganese Masses (F12) (LRR O, P, T) ☐ Umbric Surface (F13) (LRR P, T, U) ☐ Delta Ochric (F17) (MLRA 151) ☐ Reduced Vertic (F18) (MLRA 150A, 150B) ☐ Piedmont Floodplain Soils (F19) (MLRA 149A) ☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)						☐ 1 cm Muck (A9) (LRR O) ☐ 2 cm Muck (A10) (LRR S) ☐ Reduced Vertic (F18) (outside MLRA 150A,B) ☐ Piedmont Floodplain Soils (F19) (LRR P, S, T) ☐ Anomalous Bright Loamy Soils (F20) ☐ (MLRA 153B) ☐ Red Parent Material (TF2) ☐ Very Shallow Dark Surface (TF12) ☐ Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.		
Restrictive Layer (if observed): Type: _____ Depth (inches): _____							Hydric Soil Present? Yes _____ No <u>X</u>							
Remarks: No positive indication of hydric soils was observed.														

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

DP28

	Absolute % cover	Dominant Species	Indicator Status																													
Tree Stratum (Plot size: 30 ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>10</u> (A) Total Number of Dominant Species Across All Strata: <u>10</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																												
1. <i>Quercus nigra</i>	50	Yes	FAC																													
2. <i>Nyssa sylvatica</i>	25	Yes	FAC																													
3. <i>Magnolia virginiana</i>	10	No	FACW																													
4. <i>Pinus elliotii</i>	5	No	FACW																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	90 = Total Cover																															
50% of total cover:	45	20% of total cover:	18																													
Sapling Stratum (Plot size: 30 ft.)					Prevalence Index Worksheet: <table style="width: 100%;"> <tr> <th colspan="2">Total % Cover of:</th> <th colspan="2">Multiply by:</th> </tr> <tr> <td>OBL species</td> <td><u>0</u></td> <td>x 1 =</td> <td><u>0</u></td> </tr> <tr> <td>FACW species</td> <td><u>15</u></td> <td>x 2 =</td> <td><u>30</u></td> </tr> <tr> <td>FAC species</td> <td><u>150</u></td> <td>x 3 =</td> <td><u>450</u></td> </tr> <tr> <td>FACU species</td> <td><u>2</u></td> <td>x 4 =</td> <td><u>8</u></td> </tr> <tr> <td>UPL species</td> <td><u>2</u></td> <td>x 5 =</td> <td><u>10</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>169</u></td> <td>(A)</td> <td><u>498</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>2.95</u>	Total % Cover of:		Multiply by:		OBL species	<u>0</u>	x 1 =	<u>0</u>	FACW species	<u>15</u>	x 2 =	<u>30</u>	FAC species	<u>150</u>	x 3 =	<u>450</u>	FACU species	<u>2</u>	x 4 =	<u>8</u>	UPL species	<u>2</u>	x 5 =	<u>10</u>	Column Totals:	<u>169</u>	(A)
Total % Cover of:		Multiply by:																														
OBL species	<u>0</u>	x 1 =	<u>0</u>																													
FACW species	<u>15</u>	x 2 =	<u>30</u>																													
FAC species	<u>150</u>	x 3 =	<u>450</u>																													
FACU species	<u>2</u>	x 4 =	<u>8</u>																													
UPL species	<u>2</u>	x 5 =	<u>10</u>																													
Column Totals:	<u>169</u>	(A)	<u>498</u> (B)																													
1. <i>Nyssa sylvatica</i>	10	Yes	FAC																													
2. <i>Symplocos tinctoria</i>	2	No	FAC																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	12 = Total Cover																															
50% of total cover:	6	20% of total cover:	2.4																													
Shrub Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Indicators: ☐ 1 - Rapid Test for Hydrophytic Vegetation ☒ 2 - Dominance Test is >50% ☒ 3 - Prevalence Index is ≤ 3.0 ¹ _____ Problematic Hydrophytic Vegetation ¹ (Explain)																												
1. <i>Quercus nigra</i>	5	Yes	FAC																													
2. <i>Acer rubrum</i>	5	Yes	FAC																													
3. <i>Ilex vomitoria</i>	5	Yes	FAC																													
4. <i>Quercus stellata</i>	2	No	UPL																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	17 = Total Cover																															
50% of total cover:	8.5	20% of total cover:	3.4																													
Herb Stratum (Plot size: 30 ft.)					Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height.																											
1. <i>Chasmanthium sessiliflorum</i>	15	Yes	FAC																													
2. <i>Vitis rotundifolia</i>	10	Yes	FAC																													
3. <i>Dichanthelium acuminatum</i>	5	No	FAC																													
4. <i>Ilex vomitoria</i>	3	No	FAC																													
5. <i>Smilax glauca</i>	3	No	FAC																													
6. <i>Triadica sebifera</i>	2	No	FAC																													
7. <i>Callicarpa americana</i>	2	No	FACU																													
8. _____	_____	_____	_____																													
9. _____	_____	_____	_____																													
10. _____	_____	_____	_____																													
11. _____	_____	_____	_____																													
	40 = Total Cover																															
50% of total cover:	20	20% of total cover:	8																													
Woody Vine Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____																												
1. <i>Smilax glauca</i>	5	Yes	FAC																													
2. <i>Vitis rotundifolia</i>	5	Yes	FAC																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
	10 = Total Cover																															
50% of total cover:	5	20% of total cover:	2																													

Remarks: (if observed, list morphological adaptations below).

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site:	Site 1	County:	Hancock	Sampling Date:	August 5, 2022
Applicant/Owner:	Hancock County Port & Harbor Commission	State:	Mississippi	Sample Point:	DP29
Investigator(s):	Beth Beals and Savannah R. Morales	Section, Township, Range:	Section 19, Township 9S, Range 15W		
Landform (hillslope, terrace, etc.):	Hummocked Plain	Local relief (concave, convex, none):	Concave	Slope (%):	0-5
Subregion (LRR or MLRA):	MLRA 152A, LRR T	Lat:	30.23928	Long:	-89.54267
Soil Map Unit Name:	Ocilla loamy sand, 0-2% slopes	Datum:	WGS84	NWI Classification:	None
Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) Yes (if no, explain in Remarks.)					
Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No					
Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)					

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No	Is the Sampled Area within a Wetland?	Yes X	No
Hydric Soil Present?	Yes X	No			
Wetland Hydrology Present?	Yes X	No			
Remarks: This point was determined to be within a wetland due to the presence of all three wetland criteria.					

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)	
☐ High Water Table (A2)		☐ Marl Deposits (B15) (LRR U)		☐ Sparsely Vegetated Concave Surface (B8)	
☐ Saturation (A3)		☐ Hydrogen Sulfide Odor (C1)		☐ Drainage Patterns (B10)	
☐ Water Marks (B1)		☒ Oxidized Rhizospheres on Living Roots (C3)		☐ Moss Trim Lines (B16)	
☐ Sediment Deposits (B2)		☐ Presence of Reduced Iron (C4)		☐ Dry-Season Water Table (C2)	
☐ Drift Deposits (B3)		☐ Recent Iron Reduction in Tilled Soils (C6)		☐ Crayfish Burrows (C8)	
☐ Algal Mat or Crust (B4)		☐ Thin Muck Surface (C7)		☐ Saturation Visible on Aerial Imagery (C9)	
☐ Iron Deposits (B5)		☐ Other (Explain in Remarks)		☐ Geomorphic Position (D2)	
☐ Inundation Visible on Aerial Imagery (B7)				☐ Shallow Aquitard (D3)	
☐ Water-Stained Leaves (B9)				☒ FAC-Neutral Test (D5)	
				☐ Sphagnum moss (D8) (LRR T, U)	
Field Observations:				Wetland Hydrology Present?	
Surface Water Present?	Yes X	No	Depth (inches): 2	Yes X	No
Water Table Present?	Yes	No X	Depth (inches): >16		
Saturation Present?	Yes	No X	Depth (inches): N/A		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks: A positive indication of wetland hydrology was observed (at least one primary indicator).					

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth (inches)	Matrix		Redox Features			Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹		
0-16	10YR 2/1	50	10YR 5/8	10	C	M	Masked sand grains 100%
	10YR 4/1	40					
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.							
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)						Indicators for Problematic Hydric Soils³:	
☐ Histosol (A1)			☐ Polyvalue Below Surface (S8) (LRR S, T, U)			☐ 1 cm Muck (A9) (LRR O)	
☐ Histic Epipedon (A2)			☐ Thin Dark Surface (S9) (LRR S, T, U)			☐ 2 cm Muck (A10) (LRR S)	
☐ Black Histic (A3)			☐ Loamy Mucky Mineral (F1) (LRR O)			☐ Reduced Vertic (F18) (outside MLRA 150A,B)	
☐ Hydrogen Sulfide (A4)			☐ Loamy Gleyed Matrix (F2)			☐ Piedmont Floodplain Soils (F19) (LRR P, S, T)	
☐ Stratified Layers (A5)			☐ Depleted Matrix (F3)			☐ Anomalous Bright Loamy Soils (F20)	
☐ Organic Bodies (A6) (LRR P, T, U)			☐ Redox Dark Surface (F6)			☐ (MLRA 153B)	
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)			☐ Depleted Dark Surface (F7)			☐ Red Parent Material (TF2)	
☐ Muck Presence (A8) (LRR U)			☐ Redox Depressions (F8)			☐ Very Shallow Dark Surface (TF12)	
☐ 1 cm Muck (A9) (LRR P, T)			☐ Marl (F10) (LRR U)			☐ Other (Explain in Remarks)	
☐ Depleted Below Dark Surface (A11)			☐ Depleted Ochric (F11) (MLRA 151)				
☐ Thick Dark Surface (A12)			☐ Iron-Manganese Masses (F12) (LRR O, P, T)				
☐ Coast Prairie Redox (A16) (MLRA 150A)			☐ Umbric Surface (F13) (LRR P, T, U)				
☐ Sandy Mucky Mineral (S1) (LRR O, S)			☐ Delta Ochric (F17) (MLRA 151)				
☐ Sandy Gleyed Matrix (S4)			☐ Reduced Vertic (F18) (MLRA 150A, 150B)				
☐ Sandy Redox (S5)			☐ Piedmont Floodplain Soils (F19) (MLRA 149A)				
☒ Stripped Matrix (S6)			☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)				
☒ Dark Surface (S7) (LRR P, S, T, U)							
Restrictive Layer (if observed):						Hydric Soil Present?	
Type: _____						Yes X No	
Depth (inches): _____							
Remarks: A positive indication of hydric soil was observed.							

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

DP29

	Absolute % cover	Dominant Species	Indicator Status																													
Tree Stratum (Plot size: 30 ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>9</u> (A) Total Number of Dominant Species Across All Strata: <u>9</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																												
1. <i>Pinus taeda</i>	30	Yes	FAC																													
2. <i>Triadica sebifera</i>	10	Yes	FAC																													
3. _____																																
4. _____																																
5. _____																																
6. _____																																
	40 = Total Cover																															
50% of total cover:	20	20% of total cover:	8																													
Sapling Stratum (Plot size: 30 ft.)					Prevalence Index Worksheet: <table style="width: 100%;"> <tr> <th colspan="2">Total % Cover of:</th> <th colspan="2">Multiply by:</th> </tr> <tr> <td>OBL species</td> <td><u>7</u></td> <td>x 1 =</td> <td><u>7</u></td> </tr> <tr> <td>FACW species</td> <td><u>24</u></td> <td>x 2 =</td> <td><u>48</u></td> </tr> <tr> <td>FAC species</td> <td><u>156</u></td> <td>x 3 =</td> <td><u>468</u></td> </tr> <tr> <td>FACU species</td> <td><u>0</u></td> <td>x 4 =</td> <td><u>0</u></td> </tr> <tr> <td>UPL species</td> <td><u>0</u></td> <td>x 5 =</td> <td><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>187</u></td> <td>(A)</td> <td><u>523</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>2.80</u>	Total % Cover of:		Multiply by:		OBL species	<u>7</u>	x 1 =	<u>7</u>	FACW species	<u>24</u>	x 2 =	<u>48</u>	FAC species	<u>156</u>	x 3 =	<u>468</u>	FACU species	<u>0</u>	x 4 =	<u>0</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals:	<u>187</u>	(A)
Total % Cover of:		Multiply by:																														
OBL species	<u>7</u>	x 1 =	<u>7</u>																													
FACW species	<u>24</u>	x 2 =	<u>48</u>																													
FAC species	<u>156</u>	x 3 =	<u>468</u>																													
FACU species	<u>0</u>	x 4 =	<u>0</u>																													
UPL species	<u>0</u>	x 5 =	<u>0</u>																													
Column Totals:	<u>187</u>	(A)	<u>523</u> (B)																													
1. <i>Pinus taeda</i>	45	Yes	FAC																													
2. <i>Triadica sebifera</i>	10	No	FAC																													
3. _____																																
4. _____																																
5. _____																																
6. _____																																
	55 = Total Cover																															
50% of total cover:	27.5	20% of total cover:	11																													
Shrub Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation ☒ <u>2</u> - Dominance Test is >50% ☒ <u>3</u> - Prevalence Index is ≤ 3.0 ¹ _____ Problematic Hydrophytic Vegetation ¹ (Explain)																												
1. <i>Pinus taeda</i>	10	Yes	FAC																													
2. <i>Morella cerifera</i>	6	Yes	FAC																													
3. <i>Triadica sebifera</i>	5	Yes	FAC																													
4. <i>Persea borbonia</i>	2	No	FACW																													
5. _____																																
6. _____																																
	23 = Total Cover																															
50% of total cover:	11.5	20% of total cover:	4.6																													
Herb Stratum (Plot size: 30 ft.)					Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height.																											
1. <i>Dichanthelium acuminatum</i>	30	Yes	FAC																													
2. <i>Rhynchospora elliotii</i>	20	Yes	FACW																													
3. <i>Proserpinaca pectinata</i>	5	No	OBL																													
4. <i>Nyssa sylvatica</i>	4	No	FAC																													
5. <i>Triadica sebifera</i>	2	No	FAC																													
6. <i>Eleocharis lanceolata</i>	2	No	FACW																													
7. <i>Hypericum tetrapetalum</i>	2	No	OBL																													
8. <i>Acer rubrum</i>	1	No	FAC																													
9. <i>Pinus taeda</i>	1	No	FAC																													
10. _____																																
11. _____																																
	67 = Total Cover																															
50% of total cover:	33.5	20% of total cover:	13.4																													
Woody Vine Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____																												
1. <i>Toxicodendron radicans</i>	2	Yes	FAC																													
2. _____																																
3. _____																																
4. _____																																
5. _____																																
	2 = Total Cover																															
50% of total cover:	1	20% of total cover:	0.4																													

Remarks: (if observed, list morphological adaptations below).

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site:	Site 1	County:	Hancock	Sampling Date:	August 5, 2022
Applicant/Owner:	Hancock County Port & Harbor Commission	State:	Mississippi	Sample Point:	DP30
Investigator(s):	Beth Beals and Savannah R. Morales	Section, Township, Range:	Section 25, Township 9S, Range 16W		
Landform (hillslope, terrace, etc.):	Plain	Local relief (concave, convex, none):	None	Slope (%):	0-5
Subregion (LRR or MLRA):	MLRA 152A, LRR T	Lat:	30.23447	Long:	-89.55223
Soil Map Unit Name:	Ocilla loamy sand, 0-2% slopes	Datum:	WGS84	NWI Classification:	None
Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) Yes (if no, explain in Remarks.)					
Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No					
Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)					

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No	Is the Sampled Area within a Wetland? Yes X No
Hydric Soil Present?	Yes X	No	
Wetland Hydrology Present?	Yes X	No	
Remarks: This point was determined to be within a wetland due to the presence of all three wetland criteria.			

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)			
☒ High Water Table (A2)		☐ Marl Deposits (B15) (LRR U)		☐ Sparsely Vegetated Concave Surface (B8)			
☒ Saturation (A3)		☐ Hydrogen Sulfide Odor (C1)		☐ Drainage Patterns (B10)			
☐ Water Marks (B1)		☐ Oxidized Rhizospheres on Living Roots (C3)		☐ Moss Trim Lines (B16)			
☐ Sediment Deposits (B2)		☐ Presence of Reduced Iron (C4)		☐ Dry-Season Water Table (C2)			
☐ Drift Deposits (B3)		☐ Recent Iron Reduction in Tilled Soils (C6)		☐ Crayfish Burrows (C8)			
☐ Algal Mat or Crust (B4)		☐ Thin Muck Surface (C7)		☐ Saturation Visible on Aerial Imagery (C9)			
☐ Iron Deposits (B5)		☐ Other (Explain in Remarks)		☐ Geomorphic Position (D2)			
☐ Inundation Visible on Aerial Imagery (B7)				☐ Shallow Aquitard (D3)			
☒ Water-Stained Leaves (B9)				☒ FAC-Neutral Test (D5)			
				☒ Sphagnum moss (D8) (LRR T, U)			
Field Observations:				Wetland Hydrology Present? Yes X No			
Surface Water Present?	Yes X No	Depth (inches):	1				
Water Table Present?	Yes X No	Depth (inches):	1				
Saturation Present?	Yes X No	Depth (inches):	0-16				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks: A positive indication of wetland hydrology was observed (at least one primary indicator).							

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-8	10YR 4/1	60	10YR 5/8	2	C	M	Sandy Loam	
	10YR 5/2	38						
8-16	10YR 4/1	30	10YR 6/6	25	C	M	Sandy Loam	
	10YR 6/2	45						
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.								
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)						Indicators for Problematic Hydric Soils³:		
☐ Histosol (A1)			☐ Polyvalue Below Surface (S8) (LRR S, T, U)			☐ 1 cm Muck (A9) (LRR O)		
☐ Histic Epipedon (A2)			☐ Thin Dark Surface (S9) (LRR S, T, U)			☐ 2 cm Muck (A10) (LRR S)		
☐ Black Histic (A3)			☐ Loamy Mucky Mineral (F1) (LRR O)			☐ Reduced Vertic (F18) (outside MLRA 150A,B)		
☐ Hydrogen Sulfide (A4)			☐ Loamy Gleyed Matrix (F2)			☐ Piedmont Floodplain Soils (F19) (LRR P, S, T)		
☐ Stratified Layers (A5)			☐ Depleted Matrix (F3)			☐ Anomalous Bright Loamy Soils (F20)		
☐ Organic Bodies (A6) (LRR P, T, U)			☐ Redox Dark Surface (F6)			☐ (MLRA 153B)		
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)			☐ Depleted Dark Surface (F7)			☐ Red Parent Material (TF2)		
☐ Muck Presence (A8) (LRR U)			☐ Redox Depressions (F8)			☐ Very Shallow Dark Surface (TF12)		
☐ 1 cm Muck (A9) (LRR P, T)			☐ Marl (F10) (LRR U)			☐ Other (Explain in Remarks)		
☐ Depleted Below Dark Surface (A11)			☐ Depleted Ochric (F11) (MLRA 151)					
☐ Thick Dark Surface (A12)			☐ Iron-Manganese Masses (F12) (LRR O, P, T)					
☐ Coast Prairie Redox (A16) (MLRA 150A)			☐ Umbric Surface (F13) (LRR P, T, U)					
☐ Sandy Mucky Mineral (S1) (LRR O, S)			☐ Delta Ochric (F17) (MLRA 151)					
☐ Sandy Gleyed Matrix (S4)			☐ Reduced Vertic (F18) (MLRA 150A, 150B)					
☐ Sandy Redox (S5)			☐ Piedmont Floodplain Soils (F19) (MLRA 149A)					
☒ Stripped Matrix (S6)			☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)					
☐ Dark Surface (S7) (LRR P, S, T, U)								
Restrictive Layer (if observed):						Hydric Soil Present? Yes X No		
Type: _____								
Depth (inches): _____								
Remarks: A positive indication of hydric soil was observed.								

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

DP30

	Absolute % cover	Dominant Species	Indicator Status																													
Tree Stratum (Plot size: <u>30</u> ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>10</u> (A) Total Number of Dominant Species Across All Strata: <u>10</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																												
1. <i>Nyssa sylvatica</i>	10	Yes	FAC																													
2. <i>Pinus elliotii</i>	10	Yes	FACW																													
3. <i>Magnolia virginiana</i>	5	Yes	FACW																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	25 = Total Cover																															
50% of total cover:	12.5	20% of total cover:	5																													
Sapling Stratum (Plot size: <u>30</u> ft.)					Prevalence Index Worksheet: <table style="width: 100%;"> <tr> <td colspan="2">Total % Cover of:</td> <td colspan="2">Multiply by:</td> </tr> <tr> <td>OBL species</td> <td><u>22</u></td> <td>x 1 =</td> <td><u>22</u></td> </tr> <tr> <td>FACW species</td> <td><u>114</u></td> <td>x 2 =</td> <td><u>228</u></td> </tr> <tr> <td>FAC species</td> <td><u>35</u></td> <td>x 3 =</td> <td><u>105</u></td> </tr> <tr> <td>FACU species</td> <td><u>5</u></td> <td>x 4 =</td> <td><u>20</u></td> </tr> <tr> <td>UPL species</td> <td><u>0</u></td> <td>x 5 =</td> <td><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>176</u></td> <td>(A)</td> <td><u>375</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>2.13</u>	Total % Cover of:		Multiply by:		OBL species	<u>22</u>	x 1 =	<u>22</u>	FACW species	<u>114</u>	x 2 =	<u>228</u>	FAC species	<u>35</u>	x 3 =	<u>105</u>	FACU species	<u>5</u>	x 4 =	<u>20</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals:	<u>176</u>	(A)
Total % Cover of:		Multiply by:																														
OBL species	<u>22</u>	x 1 =	<u>22</u>																													
FACW species	<u>114</u>	x 2 =	<u>228</u>																													
FAC species	<u>35</u>	x 3 =	<u>105</u>																													
FACU species	<u>5</u>	x 4 =	<u>20</u>																													
UPL species	<u>0</u>	x 5 =	<u>0</u>																													
Column Totals:	<u>176</u>	(A)	<u>375</u> (B)																													
1. <i>Pinus elliotii</i>	50	Yes	FACW																													
2. <i>Magnolia virginiana</i>	10	No	FACW																													
3. <i>Liquidambar styraciflua</i>	5	No	FAC																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	65 = Total Cover																															
50% of total cover:	32.5	20% of total cover:	13																													
Shrub Stratum (Plot size: <u>30</u> ft.)				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>X</u> <u>3</u> - Prevalence Index is ≤ 3.0 ¹ _____ Problematic Hydrophytic Vegetation ¹ (Explain)																												
1. <i>Ilex glabra</i>	10	Yes	FACW																													
2. <i>Ilex coriacea</i>	8	Yes	FACW																													
3. <i>Morella cerifera</i>	5	No	FAC																													
4. <i>Vaccinium arboreum</i>	5	No	FACU																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	28 = Total Cover																															
50% of total cover:	14	20% of total cover:	5.6																													
Herb Stratum (Plot size: <u>30</u> ft.)					Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height.																											
1. <i>Carex glaucescens</i>	20	Yes	OBL																													
2. <i>Andropogon mohrii</i>	8	Yes	FACW																													
3. <i>Ilex coriacea</i>	8	Yes	FACW																													
4. <i>Smilax rotundifolia</i>	5	No	FAC																													
5. <i>Ilex glabra</i>	5	No	FACW																													
6. <i>Vitis rotundifolia</i>	3	No	FAC																													
7. <i>Woodwardia areolata</i>	2	No	OBL																													
8. <i>Toxicodendron radicans</i>	2	No	FAC																													
9. _____	_____	_____	_____																													
10. _____	_____	_____	_____																													
11. _____	_____	_____	_____																													
	53 = Total Cover																															
50% of total cover:	26.5	20% of total cover:	10.6																													
Woody Vine Stratum (Plot size: <u>30</u> ft.)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____																												
1. <i>Toxicodendron radicans</i>	5	Yes	FAC																													
2. _____	_____	_____	_____																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
	5 = Total Cover																															
50% of total cover:	2.5	20% of total cover:	1																													
Remarks: (if observed, list morphological adaptations below). A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).																																

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: _____ Site 1 _____ County: _____ Hancock _____ Sampling Date: _____ August 5, 2022 _____

Applicant/Owner: _____ Hancock County Port & Harbor Commission _____ State: _____ Mississippi _____ Sample Point: _____ DP31 _____

Investigator(s): _____ Beth Beals _____ and _____ Savannah R. Morales _____ Section, Township, Range: _____ Section 25, Township 9S, Range 16W _____

Landform (hillslope, terrace, etc.): _____ Ridge _____ Local relief (concave, convex, none): _____ Convex _____ Slope (%): _____ 0-5 _____

Subregion (LRR or MLRA): _____ MLRA 152A, LRR T _____ Lat: _____ 30.23521 _____ Long: _____ -89.55302 _____ Datum: _____ WGS84 _____

Soil Map Unit Name: _____ Ocilla loamy sand, 0-2% slopes _____ NWI Classification: _____ None _____

Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) _____ Yes _____ (if no, explain in Remarks.) _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ X _____ No _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ naturally problematic? (If needed, explain any answers in Remarks.) _____

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>			
Wetland Hydrology Present?	Yes _____	No <u>X</u>			
Remarks: This point was determined not to be within a wetland due to the lack of hydric soils and wetland hydrology.					

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)			
☐ High Water Table (A2)	☐ Marl Deposits (B15) (LRR U)	☐ Sparsely Vegetated Concave Surface (B8)			
☐ Saturation (A3)	☐ Hydrogen Sulfide Odor (C1)	☐ Drainage Patterns (B10)			
☐ Water Marks (B1)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Moss Trim Lines (B16)			
☐ Sediment Deposits (B2)	☐ Presence of Reduced Iron (C4)	☐ Dry-Season Water Table (C2)			
☐ Drift Deposits (B3)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Crayfish Burrows (C8)			
☐ Algal Mat or Crust (B4)	☐ Thin Muck Surface (C7)	☐ Saturation Visible on Aerial Imagery (C9)			
☐ Iron Deposits (B5)	☐ Other (Explain in Remarks)	☐ Geomorphic Position (D2)			
☐ Inundation Visible on Aerial Imagery (B7)		☐ Shallow Aquitard (D3)			
☐ Water-Stained Leaves (B9)		☐ FAC-Neutral Test (D5)			
		☐ Sphagnum moss (D8) (LRR T, U)			
Field Observations:				Wetland Hydrology Present?	
Surface Water Present?	Yes _____ No <u>X</u>	Depth (inches):	<u>N/A</u>	Yes _____	No <u>X</u>
Water Table Present?	Yes _____ No <u>X</u>	Depth (inches):	<u>N/A</u>		
Saturation Present?	Yes _____ No <u>X</u>	Depth (inches):	<u>N/A</u>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks: No positive indication of wetland hydrology was observed.					

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-2	10YR 4/2	100					Sandy Loam	Organic matter present
2-16	10YR 5/3	100					Sandy Loam	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.								
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)						Indicators for Problematic Hydric Soils³:		
☐ Histosol (A1)	☐ Polyvalue Below Surface (S8) (LRR S, T, U)				☐ 1 cm Muck (A9) (LRR O)			
☐ Histic Epipedon (A2)	☐ Thin Dark Surface (S9) (LRR S, T, U)				☐ 2 cm Muck (A10) (LRR S)			
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (LRR O)				☐ Reduced Vertic (F18) (outside MLRA 150A,B)			
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)				☐ Piedmont Floodplain Soils (F19) (LRR P, S, T)			
☐ Stratified Layers (A5)	☐ Depleted Matrix (F3)				☐ Anomalous Bright Loamy Soils (F20)			
☐ Organic Bodies (A6) (LRR P, T, U)	☐ Redox Dark Surface (F6)				☐ (MLRA 153B)			
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)	☐ Depleted Dark Surface (F7)				☐ Red Parent Material (TF2)			
☐ Muck Presence (A8) (LRR U)	☐ Redox Depressions (F8)				☐ Very Shallow Dark Surface (TF12)			
☐ 1 cm Muck (A9) (LRR P, T)	☐ Marl (F10) (LRR U)				☐ Other (Explain in Remarks)			
☐ Depleted Below Dark Surface (A11)	☐ Depleted Ochric (F11) (MLRA 151)							
☐ Thick Dark Surface (A12)	☐ Iron-Manganese Masses (F12) (LRR O, P, T)							
☐ Coast Prairie Redox (A16) (MLRA 150A)	☐ Umbric Surface (F13) (LRR P, T, U)							
☐ Sandy Mucky Mineral (S1) (LRR O, S)	☐ Delta Ochric (F17) (MLRA 151)							
☐ Sandy Gleyed Matrix (S4)	☐ Reduced Vertic (F18) (MLRA 150A, 150B)							
☐ Sandy Redox (S5)	☐ Piedmont Floodplain Soils (F19) (MLRA 149A)							
☐ Stripped Matrix (S6)	☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)							
☐ Dark Surface (S7) (LRR P, S, T, U)								
Restrictive Layer (if observed):								
Type: _____								
Depth (inches): _____								
Remarks: No positive indication of hydric soils was observed.						Hydric Soil Present? Yes _____ No <u>X</u>		

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

DP31

	Absolute % cover	Dominant Species	Indicator Status																													
Tree Stratum (Plot size: <u>30</u> ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>80%</u> (A/B)																												
1. <i>Magnolia grandiflora</i>	50	Yes	FAC																													
2. <i>Quercus nigra</i>	8	No	FAC																													
3. <i>Vaccinium arboreum</i>	5	No	FACU																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	63 = Total Cover																															
50% of total cover:	31.5	20% of total cover:	12.6																													
Sapling Stratum (Plot size: <u>30</u> ft.)					Prevalence Index Worksheet: <table style="width: 100%;"> <tr> <th colspan="2">Total % Cover of:</th> <th colspan="2">Multiply by:</th> </tr> <tr> <td>OBL species</td> <td><u>0</u></td> <td>x 1 =</td> <td><u>0</u></td> </tr> <tr> <td>FACW species</td> <td><u>13</u></td> <td>x 2 =</td> <td><u>26</u></td> </tr> <tr> <td>FAC species</td> <td><u>136</u></td> <td>x 3 =</td> <td><u>408</u></td> </tr> <tr> <td>FACU species</td> <td><u>15</u></td> <td>x 4 =</td> <td><u>60</u></td> </tr> <tr> <td>UPL species</td> <td><u>3</u></td> <td>x 5 =</td> <td><u>15</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>167</u></td> <td>(A)</td> <td><u>509</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>3.05</u>	Total % Cover of:		Multiply by:		OBL species	<u>0</u>	x 1 =	<u>0</u>	FACW species	<u>13</u>	x 2 =	<u>26</u>	FAC species	<u>136</u>	x 3 =	<u>408</u>	FACU species	<u>15</u>	x 4 =	<u>60</u>	UPL species	<u>3</u>	x 5 =	<u>15</u>	Column Totals:	<u>167</u>	(A)
Total % Cover of:		Multiply by:																														
OBL species	<u>0</u>	x 1 =	<u>0</u>																													
FACW species	<u>13</u>	x 2 =	<u>26</u>																													
FAC species	<u>136</u>	x 3 =	<u>408</u>																													
FACU species	<u>15</u>	x 4 =	<u>60</u>																													
UPL species	<u>3</u>	x 5 =	<u>15</u>																													
Column Totals:	<u>167</u>	(A)	<u>509</u> (B)																													
1. <i>Magnolia grandiflora</i>	3	Yes	FAC																													
2. _____	_____	_____	_____																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	3 = Total Cover																															
50% of total cover:	1.5	20% of total cover:	0.6																													
Shrub Stratum (Plot size: <u>30</u> ft.)				Hydrophytic Vegetation Indicators: ☐ 1 - Rapid Test for Hydrophytic Vegetation ☒ 2 - Dominance Test is >50% ☐ 3 - Prevalence Index is ≤ 3.0 ¹ ☐ Problematic Hydrophytic Vegetation ¹ (Explain)																												
1. <i>Ilex vomitoria</i>	70	Yes	FAC																													
2. <i>Vaccinium arboreum</i>	10	No	FACU																													
3. <i>Ilex coriacea</i>	10	No	FACW																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
6. _____	_____	_____	_____																													
	90 = Total Cover																															
50% of total cover:	45	20% of total cover:	18																													
Herb Stratum (Plot size: <u>30</u> ft.)					Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height.																											
1. <i>Quercus stellata</i>	3	Yes	UPL																													
2. <i>Vitis rotundifolia</i>	3	Yes	FAC																													
3. <i>Magnolia virginiana</i>	2	No	FACW																													
4. <i>Quercus nigra</i>	2	No	FAC																													
5. <i>Pinus elliotii</i>	1	No	FACW																													
6. _____	_____	_____	_____																													
7. _____	_____	_____	_____																													
8. _____	_____	_____	_____																													
9. _____	_____	_____	_____																													
10. _____	_____	_____	_____																													
11. _____	_____	_____	_____																													
	11 = Total Cover																															
50% of total cover:	5.5	20% of total cover:	2.2																													
Woody Vine Stratum (Plot size: <u>30</u> ft.)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____																												
1. <i>None Observed</i>																																
2. _____	_____	_____	_____																													
3. _____	_____	_____	_____																													
4. _____	_____	_____	_____																													
5. _____	_____	_____	_____																													
	_____ = Total Cover																															
50% of total cover:	_____	20% of total cover:	_____																													
Remarks: (if observed, list morphological adaptations below). A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).																																

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site:	Site 1	County:	Hancock	Sampling Date:	August 8, 2022
Applicant/Owner:	Hancock County Port & Harbor Commission	State:	Mississippi	Sample Point:	DP32
Investigator(s):	Beth Beals and Savannah R. Morales	Section, Township, Range:	Section 19, Township 9S, Range 15W		
Landform (hillslope, terrace, etc.):	Flat	Local relief (concave, convex, none):	None	Slope (%):	0-5
Subregion (LRR or MLRA):	MLRA 152A, LRR T	Lat:	30.23995	Long:	-89.54272
Soil Map Unit Name:	Harleston fine sandy loam, 0-2% slopes	NWI Classification:	None		
Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) Yes (if no, explain in Remarks.)					
Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No					
Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)					

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No	Is the Sampled Area within a Wetland?	Yes	No X
Hydric Soil Present?	Yes	No X			
Wetland Hydrology Present?	Yes	No X			
Remarks: This point was determined not to be within a wetland due to the lack of hydric soils and wetland hydrology.					

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)			
☐ High Water Table (A2)	☐ Marl Deposits (B15) (LRR U)	☐ Sparsely Vegetated Concave Surface (B8)			
☐ Saturation (A3)	☐ Hydrogen Sulfide Odor (C1)	☐ Drainage Patterns (B10)			
☐ Water Marks (B1)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Moss Trim Lines (B16)			
☐ Sediment Deposits (B2)	☐ Presence of Reduced Iron (C4)	☐ Dry-Season Water Table (C2)			
☐ Drift Deposits (B3)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Crayfish Burrows (C8)			
☐ Algal Mat or Crust (B4)	☐ Thin Muck Surface (C7)	☐ Saturation Visible on Aerial Imagery (C9)			
☐ Iron Deposits (B5)	☐ Other (Explain in Remarks)	☐ Geomorphic Position (D2)			
☐ Inundation Visible on Aerial Imagery (B7)		☐ Shallow Aquitard (D3)			
☐ Water-Stained Leaves (B9)		☐ FAC-Neutral Test (D5)			
				☐ Sphagnum moss (D8) (LRR T, U)	
Field Observations:				Wetland Hydrology Present?	
Surface Water Present?	Yes No X	Depth (inches):	N/A	Yes	No X
Water Table Present?	Yes No X	Depth (inches):	N/A		
Saturation Present?	Yes No X	Depth (inches):	N/A		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks: No positive indication of wetland hydrology was observed.					

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-3	10YR 4/1	60					Sandy loam	Fill material, shells, and rocks
	10YR 5/3	40						
3-16	2.5Y 4/1	98	10YR 5/8	2	C	M	Sandy loam	Fill material, shells, and rocks
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.								
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)						Indicators for Problematic Hydric Soils³:		
☐ Histosol (A1)	☐ Polyvalue Below Surface (S8) (LRR S, T, U)				☐ 1 cm Muck (A9) (LRR O)			
☐ Histic Epipedon (A2)	☐ Thin Dark Surface (S9) (LRR S, T, U)				☐ 2 cm Muck (A10) (LRR S)			
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (LRR O)				☐ Reduced Vertic (F18) (outside MLRA 150A,B)			
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)				☐ Piedmont Floodplain Soils (F19) (LRR P, S, T)			
☐ Stratified Layers (A5)	☐ Depleted Matrix (F3)				☐ Anomalous Bright Loamy Soils (F20)			
☐ Organic Bodies (A6) (LRR P, T, U)	☐ Redox Dark Surface (F6)				☐ (MLRA 153B)			
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)	☐ Depleted Dark Surface (F7)				☐ Red Parent Material (TF2)			
☐ Muck Presence (A8) (LRR U)	☐ Redox Depressions (F8)				☐ Very Shallow Dark Surface (TF12)			
☐ 1 cm Muck (A9) (LRR P, T)	☐ Marl (F10) (LRR U)				☐ Other (Explain in Remarks)			
☐ Depleted Below Dark Surface (A11)	☐ Depleted Ochric (F11) (MLRA 151)							
☐ Thick Dark Surface (A12)	☐ Iron-Manganese Masses (F12) (LRR O, P, T)							
☐ Coast Prairie Redox (A16) (MLRA 150A)	☐ Umbric Surface (F13) (LRR P, T, U)							
☐ Sandy Mucky Mineral (S1) (LRR O, S)	☐ Delta Ochric (F17) (MLRA 151)							
☐ Sandy Gleyed Matrix (S4)	☐ Reduced Vertic (F18) (MLRA 150A, 150B)							
☐ Sandy Redox (S5)	☐ Piedmont Floodplain Soils (F19) (MLRA 149A)							
☐ Stripped Matrix (S6)	☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)							
☐ Dark Surface (S7) (LRR P, S, T, U)								
Restrictive Layer (if observed):						Hydric Soil Present?		
Type: _____						Yes _____ No X		
Depth (inches): _____								
Remarks: While the colors observed on site meet the definition for Sandy Redox it is our professional opinion that this is due to disturbance and fill material and not a result of wetland processes. Therefore wetland soils are not marked as present.								

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

DP32

	Absolute % cover	Dominant Species	Indicator Status															
Tree Stratum (Plot size: <u>30</u> ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)														
1. <i>None Observed</i>																		
2.																		
3.																		
4.																		
5.																		
6.																		
		= Total Cover																
50% of total cover:		20% of total cover:																
Sapling Stratum (Plot size: <u>30</u> ft.)				Prevalence Index Worksheet: <table style="width: 100%;"> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: right;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>112</u></td> <td>x 3 = <u>336</u></td> </tr> <tr> <td>FACU species <u>3</u></td> <td>x 4 = <u>12</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>115</u></td> <td>(A) <u>348</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>3.03</u>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>112</u>	x 3 = <u>336</u>	FACU species <u>3</u>	x 4 = <u>12</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>115</u>	(A) <u>348</u> (B)
Total % Cover of:	Multiply by:																	
OBL species <u>0</u>	x 1 = <u>0</u>																	
FACW species <u>0</u>	x 2 = <u>0</u>																	
FAC species <u>112</u>	x 3 = <u>336</u>																	
FACU species <u>3</u>	x 4 = <u>12</u>																	
UPL species <u>0</u>	x 5 = <u>0</u>																	
Column Totals: <u>115</u>	(A) <u>348</u> (B)																	
1. <i>None Observed</i>																		
2.																		
3.																		
4.																		
5.																		
6.																		
		= Total Cover																
50% of total cover:		20% of total cover:																
Shrub Stratum (Plot size: <u>30</u> ft.)				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤ 3.0 ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)														
1. <i>None Observed</i>																		
2.																		
3.																		
4.																		
5.																		
6.																		
		= Total Cover																
50% of total cover:		20% of total cover:																
Herb Stratum (Plot size: <u>30</u> ft.)				Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height.														
1. <i>Axonopus compressus</i>	95	Yes	FAC															
2. <i>Andropogon virginicus</i>	5	No	FAC															
3. <i>Phyla nodiflora</i>	5	No	FAC															
4. <i>Eupatorium capillifolium</i>	3	No	FACU															
5. <i>Cirsium horridulum</i>	3	No	FAC															
6. <i>Pinus taeda</i>	3	No	FAC															
7. <i>Morella cerifera</i>	1	No	FAC															
8.																		
9.																		
10.																		
11.																		
	115	= Total Cover																
50% of total cover:	57.5	20% of total cover:	23															
Woody Vine Stratum (Plot size: <u>30</u> ft.)				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>														
1. <i>None Observed</i>																		
2.																		
3.																		
4.																		
5.																		
		= Total Cover																
50% of total cover:		20% of total cover:																
Remarks: (if observed, list morphological adaptations below). A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).																		

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site:	Site 1	County:	Hancock	Sampling Date:	August 11, 2022
Applicant/Owner:	Hancock County Port & Harbor Commission	State:	Mississippi	Sample Point:	DP33
Investigator(s):	Beth Beals and Savannah R. Morales	Section, Township, Range:	Section 25, Township 9S, Range 16W		
Landform (hillslope, terrace, etc.):	Dirt road/right-of-way	Local relief (concave, convex, none):	Convex	Slope (%):	0-5
Subregion (LRR or MLRA):	MLRA 152A, LRR T	Lat:	30.23597	Long:	-89.55335
Soil Map Unit Name:	Ocilla loamy sand, 0-2% slopes	Datum:	WGS84	NWI Classification:	None
Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) Yes (if no, explain in Remarks.)					
Are Vegetation No ,Soil No ,or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No					
Are Vegetation No ,Soil No ,or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)					

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No	Is the Sampled Area within a Wetland?	Yes X	No
Hydric Soil Present?	Yes X	No			
Wetland Hydrology Present?	Yes X	No			
Remarks: This point was determined to be within a wetland due to the presence of all three wetland criteria.					

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)			
☐ High Water Table (A2)	☐ Marl Deposits (B15) (LRR U)	☐ Sparsely Vegetated Concave Surface (B8)			
☐ Saturation (A3)	☐ Hydrogen Sulfide Odor (C1)	☐ Drainage Patterns (B10)			
☐ Water Marks (B1)	☒ Oxidized Rhizospheres on Living Roots(C3)	☐ Moss Trim Lines (B16)			
☐ Sediment Deposits (B2)	☐ Presence of Reduced Iron (C4)	☐ Dry-Season Water Table (C2)			
☐ Drift Deposits (B3)	☐ Recent Iron Reduction in Tilled Soils (C6)	☒ Crayfish Burrows (C8)			
☐ Algal Mat or Crust (B4)	☐ Thin Muck Surface (C7)	☐ Saturation Visible on Aerial Imagery (C9)			
☐ Iron Deposits (B5)	☐ Other (Explain in Remarks)	☐ Geomorphic Position (D2)			
☐ Inundation Visible on Aerial Imagery (B7)		☐ Shallow Aquitard (D3)			
☐ Water-Stained Leaves (B9)		☒ FAC-Neutral Test (D5)			
				☐ Sphagnum moss (D8) (LRR T, U)	
Field Observations:				Wetland Hydrology Present?	
Surface Water Present?	Yes No X	Depth (inches):	N/A	Yes X	No
Water Table Present?	Yes No X	Depth (inches):	N/A		
Saturation Present?	Yes No X	Depth (inches):	N/A		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks: A positive indication of wetland hydrology was observed (at least two secondary indicators. Data form was taken in a mowed right-of-way.					

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth (inches)	Matrix		Redox Features			Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	
0-9	10YR 6/1	50	10YR 5/8	5	C	M	Organic mask presnt in 10YR4/1
	10YR 4/1	45					
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.							
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)							
☐ Histosol (A1)	☐ Polyvalue Below Surface (S8) (LRR S, T, U)			Indicators for Problematic Hydric Soils³:			
☐ Histic Epipedon (A2)	☐ Thin Dark Surface (S9) (LRR S, T, U)			☐ 1 cm Muck (A9) (LRR O)			
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (LRR O)			☐ 2 cm Muck (A10) (LRR S)			
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)			☐ Reduced Vertic (F18) (outside MLRA 150A,B)			
☐ Stratified Layers (A5)	☐ Depleted Matrix (F3)			☐ Piedmont Floodplain Soils (F19) (LRR P, S, T)			
☐ Organic Bodies (A6) (LRR P, T, U)	☐ Redox Dark Surface (F6)			☐ Anomalous Bright Loamy Soils (F20)			
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)	☐ Depleted Dark Surface (F7)			(MLRA 153B)			
☐ Muck Presence (A8) (LRR U)	☐ Redox Depressions (F8)			☐ Red Parent Material (TF2)			
☐ 1 cm Muck (A9) (LRR P, T)	☐ Marl (F10) (LRR U)			☐ Very Shallow Dark Surface (TF12)			
☐ Depleted Below Dark Surface (A11)	☐ Depleted Ochric (F11) (MLRA 151)			☐ Other (Explain in Remarks)			
☐ Thick Dark Surface (A12)	☐ Iron-Manganese Masses (F12) (LRR O, P, T)			³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.			
☐ Coast Prairie Redox (A16) (MLRA 150A)	☐ Umbric Surface (F13) (LRR P, T, U)						
☐ Sandy Mucky Mineral (S1) (LRR O, S)	☐ Delta Ochric (F17) (MLRA 151)						
☐ Sandy Gleyed Matrix (S4)	☐ Reduced Vertic (F18) (MLRA 150A, 150B)						
☐ Sandy Redox (S5)	☐ Piedmont Floodplain Soils (F19) (MLRA 149A)						
☒ Stripped Matrix (S6)	☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)						
☐ Dark Surface (S7) (LRR P, S, T, U)							
Restrictive Layer (if observed):				Hydric Soil Present?			
Type: Compacted soil				Yes X No			
Depth (inches): 9							
Remarks: A positive indication of hydric soil was observed.							

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

DP33

	Absolute % cover	Dominant Species	Indicator Status																													
Tree Stratum (Plot size: <u>30</u> ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																												
1. <i>None Observed</i>																																
2.																																
3.																																
4.																																
5.																																
6.																																
		= Total Cover																														
50% of total cover:		20% of total cover:																														
Sapling Stratum (Plot size: <u>30</u> ft.)				Prevalence Index Worksheet: <table style="width: 100%;"> <tr> <td colspan="2">Total % Cover of:</td> <td colspan="2">Multiply by:</td> </tr> <tr> <td>OBL species</td> <td><u>5</u></td> <td>x 1 =</td> <td><u>5</u></td> </tr> <tr> <td>FACW species</td> <td><u>51</u></td> <td>x 2 =</td> <td><u>102</u></td> </tr> <tr> <td>FAC species</td> <td><u>48</u></td> <td>x 3 =</td> <td><u>144</u></td> </tr> <tr> <td>FACU species</td> <td><u>0</u></td> <td>x 4 =</td> <td><u>0</u></td> </tr> <tr> <td>UPL species</td> <td><u>0</u></td> <td>x 5 =</td> <td><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>104</u></td> <td>(A)</td> <td><u>251</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>2.41</u>	Total % Cover of:		Multiply by:		OBL species	<u>5</u>	x 1 =	<u>5</u>	FACW species	<u>51</u>	x 2 =	<u>102</u>	FAC species	<u>48</u>	x 3 =	<u>144</u>	FACU species	<u>0</u>	x 4 =	<u>0</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals:	<u>104</u>	(A)	<u>251</u> (B)
Total % Cover of:		Multiply by:																														
OBL species	<u>5</u>	x 1 =	<u>5</u>																													
FACW species	<u>51</u>	x 2 =	<u>102</u>																													
FAC species	<u>48</u>	x 3 =	<u>144</u>																													
FACU species	<u>0</u>	x 4 =	<u>0</u>																													
UPL species	<u>0</u>	x 5 =	<u>0</u>																													
Column Totals:	<u>104</u>	(A)	<u>251</u> (B)																													
1. <i>None Observed</i>																																
2.																																
3.																																
4.																																
5.																																
6.																																
		= Total Cover																														
50% of total cover:		20% of total cover:																														
Shrub Stratum (Plot size: <u>30</u> ft.)				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>X</u> <u>3</u> - Prevalence Index is ≤ 3.0 ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)																												
1. <i>None Observed</i>																																
2.																																
3.																																
4.																																
5.																																
6.																																
		= Total Cover																														
50% of total cover:		20% of total cover:																														
Herb Stratum (Plot size: <u>30</u> ft.)				Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height. Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																												
1. <i>Andropogon mohrii</i>	45	Yes	FACW																													
2. <i>Axonopus compressus</i>	45	Yes	FAC																													
3. <i>Centella erecta</i>	5	No	FACW																													
4. <i>Dichanthelium acuminatum</i>	3	No	FAC																													
5. <i>Carex glaucescens</i>	3	No	OBL																													
6. <i>Polygala lutea</i>	1	No	FACW																													
7. <i>Polygala cymosa</i>	1	No	OBL																													
8. <i>Lycopodiella alopecuroides</i>	1	No	OBL																													
9.																																
10.																																
11.																																
	104	= Total Cover																														
50% of total cover:	52	20% of total cover:	20.8																													
Woody Vine Stratum (Plot size: <u>30</u> ft.)																																
1. <i>None Observed</i>																																
2.																																
3.																																
4.																																
5.																																
		= Total Cover																														
50% of total cover:		20% of total cover:																														
Remarks: (if observed, list morphological adaptations below). A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).																																

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site:	Site 1	County:	Hancock	Sampling Date:	August 11, 2022
Applicant/Owner:	Hancock County Port & Harbor Commission	State:	Mississippi	Sample Point:	DP34
Investigator(s):	Beth Beals and Savannah R. Morales	Section, Township, Range:	Section 25, Township 9S, Range 16W		
Landform (hillslope, terrace, etc.):	Dirt road/right-of-way	Local relief (concave, convex, none):	Convex	Slope (%):	0-5
Subregion (LRR or MLRA):	MLRA 152A, LRR T	Lat:	30.23247	Long:	-89.55238
Soil Map Unit Name:	Ocilla loamy sand, 0-2% slopes	Datum:	WGS84	NWI Classification:	None
Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) Yes (if no, explain in Remarks.)					
Are Vegetation No ,Soil No ,or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No					
Are Vegetation No ,Soil No ,or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)					

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No	Is the Sampled Area within a Wetland?	Yes	No X
Hydric Soil Present?	Yes	No X			
Wetland Hydrology Present?	Yes	No X			
Remarks: This point was determined not to be within a wetland due to the lack of hydric soils and wetland hydrology.					

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)			
☐ High Water Table (A2)	☐ Marl Deposits (B15) (LRR U)	☐ Sparsely Vegetated Concave Surface (B8)			
☐ Saturation (A3)	☐ Hydrogen Sulfide Odor (C1)	☐ Drainage Patterns (B10)			
☐ Water Marks (B1)	☐ Oxidized Rhizospheres on Living Roots(C3)	☐ Moss Trim Lines (B16)			
☐ Sediment Deposits (B2)	☐ Presence of Reduced Iron (C4)	☐ Dry-Season Water Table (C2)			
☐ Drift Deposits (B3)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Crayfish Burrows (C8)			
☐ Algal Mat or Crust (B4)	☐ Thin Muck Surface (C7)	☐ Saturation Visible on Aerial Imagery (C9)			
☐ Iron Deposits (B5)	☐ Other (Explain in Remarks)	☐ Geomorphic Position (D2)			
☐ Inundation Visible on Aerial Imagery (B7)		☐ Shallow Aquitard (D3)			
☐ Water-Stained Leaves (B9)		☒ FAC-Neutral Test (D5)			
		☐ Sphagnum moss (D8) (LRR T, U)			
Field Observations:				Wetland Hydrology Present?	
Surface Water Present?	Yes No X	Depth (inches):	N/A	Yes	No X
Water Table Present?	Yes No X	Depth (inches):	N/A		
Saturation Present?	Yes No X	Depth (inches):	N/A		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks: No positive indication of wetland hydrology was observed. Recently mowed right-of-way.					

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth (inches)	Matrix		Redox Features			Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	
0-2	10YR 3/2	99	10YR 5/8	1	C	M	Sandy loam
2-4	10YR 5/4	70	7.5YR 5/8	10	C	M	Sandy loam
	10YR 5/1	20					
4-16	10YR 3/1	50					Sandy loam
	10YR 5/2	50					Masked sand grains
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.							
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)				Indicators for Problematic Hydric Soils³:			
☐ Histosol (A1)	☐ Polyvalue Below Surface (S8) (LRR S, T, U)			☐ 1 cm Muck (A9) (LRR O)			
☐ Histic Epipedon (A2)	☐ Thin Dark Surface (S9) (LRR S, T, U)			☐ 2 cm Muck (A10) (LRR S)			
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (LRR O)			☐ Reduced Vertic (F18) (outside MLRA 150A,B)			
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)			☐ Piedmont Floodplain Soils (F19) (LRR P, S, T)			
☐ Stratified Layers (A5)	☐ Depleted Matrix (F3)			☐ Anomalous Bright Loamy Soils (F20)			
☐ Organic Bodies (A6) (LRR P, T, U)	☐ Redox Dark Surface (F6)			☐ (MLRA 153B)			
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)	☐ Depleted Dark Surface (F7)			☐ Red Parent Material (TF2)			
☐ Muck Presence (A8) (LRR U)	☐ Redox Depressions (F8)			☐ Very Shallow Dark Surface (TF12)			
☐ 1 cm Muck (A9) (LRR P, T)	☐ Marl (F10) (LRR U)			☐ Other (Explain in Remarks)			
☐ Depleted Below Dark Surface (A11)	☐ Depleted Ochric (F11) (MLRA 151)						
☐ Thick Dark Surface (A12)	☐ Iron-Manganese Masses (F12) (LRR O, P, T)						
☐ Coast Prairie Redox (A16) (MLRA 150A)	☐ Umbric Surface (F13) (LRR P, T, U)						
☐ Sandy Mucky Mineral (S1) (LRR O, S)	☐ Delta Ochric (F17) (MLRA 151)						
☐ Sandy Gleyed Matrix (S4)	☐ Reduced Vertic (F18) (MLRA 150A, 150B)						
☐ Sandy Redox (S5)	☐ Piedmont Floodplain Soils (F19) (MLRA 149A)						
☐ Stripped Matrix (S6)	☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)						
☐ Dark Surface (S7) (LRR P, S, T, U)							
Restrictive Layer (if observed):				Hydric Soil Present?			
Type: _____				Yes _____ No X			
Depth (inches): _____							
Remarks: No positive indication of hydric soils was observed.							

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

DP34

	Absolute % cover	Dominant Species	Indicator Status																													
Tree Stratum (Plot size: <u>30</u> ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																												
1. <i>None Observed</i>																																
2.																																
3.																																
4.																																
5.																																
6.																																
		= Total Cover																														
50% of total cover:		20% of total cover:																														
Sapling Stratum (Plot size: <u>30</u> ft.)				Prevalence Index Worksheet: <table style="width: 100%;"> <tr> <th colspan="2">Total % Cover of:</th> <th colspan="2">Multiply by:</th> </tr> <tr> <td>OBL species</td> <td><u>0</u></td> <td>x 1 =</td> <td><u>0</u></td> </tr> <tr> <td>FACW species</td> <td><u>8</u></td> <td>x 2 =</td> <td><u>16</u></td> </tr> <tr> <td>FAC species</td> <td><u>90</u></td> <td>x 3 =</td> <td><u>270</u></td> </tr> <tr> <td>FACU species</td> <td><u>0</u></td> <td>x 4 =</td> <td><u>0</u></td> </tr> <tr> <td>UPL species</td> <td><u>0</u></td> <td>x 5 =</td> <td><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>98</u></td> <td>(A)</td> <td><u>286</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>2.92</u>	Total % Cover of:		Multiply by:		OBL species	<u>0</u>	x 1 =	<u>0</u>	FACW species	<u>8</u>	x 2 =	<u>16</u>	FAC species	<u>90</u>	x 3 =	<u>270</u>	FACU species	<u>0</u>	x 4 =	<u>0</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals:	<u>98</u>	(A)	<u>286</u> (B)
Total % Cover of:		Multiply by:																														
OBL species	<u>0</u>	x 1 =	<u>0</u>																													
FACW species	<u>8</u>	x 2 =	<u>16</u>																													
FAC species	<u>90</u>	x 3 =	<u>270</u>																													
FACU species	<u>0</u>	x 4 =	<u>0</u>																													
UPL species	<u>0</u>	x 5 =	<u>0</u>																													
Column Totals:	<u>98</u>	(A)	<u>286</u> (B)																													
1. <i>None Observed</i>																																
2.																																
3.																																
4.																																
5.																																
6.																																
		= Total Cover																														
50% of total cover:		20% of total cover:																														
Shrub Stratum (Plot size: <u>30</u> ft.)				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>X</u> <u>3</u> - Prevalence Index is ≤ 3.0 ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)																												
1. <i>None Observed</i>																																
2.																																
3.																																
4.																																
5.																																
6.																																
		= Total Cover																														
50% of total cover:		20% of total cover:																														
Herb Stratum (Plot size: <u>30</u> ft.)				Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height. Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																												
1. <i>Axonopus compressus</i>	90	Yes	FAC																													
2. <i>Centella erecta</i>	5	No	FACW																													
3. <i>Mimosa malacophylla</i>	3	No	FACW																													
4.																																
5.																																
6.																																
7.																																
8.																																
9.																																
10.																																
11.																																
	98	= Total Cover																														
50% of total cover:	49	20% of total cover:	19.6																													
Woody Vine Stratum (Plot size: <u>30</u> ft.)																																
1. <i>None Observed</i>																																
2.																																
3.																																
4.																																
5.																																
		= Total Cover																														
50% of total cover:		20% of total cover:																														
Remarks: (if observed, list morphological adaptations below). A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).																																

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: _____ Site 1 _____ County: _____ Hancock _____ Sampling Date: _____ August 11, 2022 _____

Applicant/Owner: _____ Hancock County Port & Harbor Commission _____ State: _____ Mississippi _____ Sample Point: _____ DP35 _____

Investigator(s): _____ Beth Beals _____ and _____ Savannah R. Morales _____ Section, Township, Range: _____ Section 30, Township 9S, Range 15W _____

Landform (hillslope, terrace, etc.): _____ Dirt road/right-of-way _____ Local relief (concave, convex, none): _____ Convex _____ Slope (%): _____ 0-5 _____

Subregion (LRR or MLRA): _____ MLRA 152A, LRR T _____ Lat: _____ 30.23573 _____ Long: _____ -89.54269 _____ Datum: _____ WGS84 _____

Soil Map Unit Name: _____ Ocilla loamy sand, 0-2% slopes _____ NWI Classification: _____ None _____

Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) _____ Yes _____ (if no, explain in Remarks.) _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ X _____ No _____

Are Vegetation _____ No _____, Soil _____ No _____, or Hydrology _____ No _____ naturally problematic? (If needed, explain any answers in Remarks.) _____

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No _____ X _____	Is the Sampled Area within a Wetland? Yes _____ No _____ X _____
Hydric Soil Present?	Yes _____ X _____	No _____	
Wetland Hydrology Present?	Yes _____	No _____ X _____	
Remarks: This point was determined not to be within a wetland due to the lack of hydrophytic vegetation and wetland hydrology.			

HYDROLOGY

Wetland hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)				Secondary Indicators (minimum of two required)			
☐ Surface Water (A1) ☐ High Water Table (A2) ☐ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B2) ☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial Imagery (B7) ☐ Water-Stained Leaves (B9)	☐ Aquatic Fauna (B13) ☐ Marl Deposits (B15) (LRR U) ☐ Hydrogen Sulfide Odor (C1) ☐ Oxidized Rhizospheres on Living Roots (C3) ☐ Presence of Reduced Iron (C4) ☐ Recent Iron Reduction in Tilled Soils (C6) ☐ Thin Muck Surface (C7) ☐ Other (Explain in Remarks)	☐ Surface Soil Cracks (B6) ☐ Sparsely Vegetated Concave Surface (B8) ☐ Drainage Patterns (B10) ☐ Moss Trim Lines (B16) ☐ Dry-Season Water Table (C2) ☐ Crayfish Burrows (C8) ☐ Saturation Visible on Aerial Imagery (C9) ☐ Geomorphic Position (D2) ☐ Shallow Aquitard (D3) ☐ FAC-Neutral Test (D5) ☐ Sphagnum moss (D8) (LRR T, U)					
Field Observations: Surface Water Present? Yes _____ No _____ X _____ Depth (inches): _____ N/A _____ Water Table Present? Yes _____ No _____ X _____ Depth (inches): _____ N/A _____ Saturation Present? Yes _____ No _____ X _____ Depth (inches): _____ N/A _____				Wetland Hydrology Present? Yes _____ No _____ X _____			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks: No positive indication of wetland hydrology was observed.							

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)														
Depth (inches)	Matrix		Redox Features				Texture	Remarks						
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²								
0-1	10YR 3/1	100					Sandy loam							
1-7	10YR 4/1	70	10YR 7/6	5	C	M	Sandy loam	Impenetrable fill below 7 inches						
	10YR 6/2	25												
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix.														
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)						Indicators for Problematic Hydric Soils³:								
☐ Histosol (A1) ☐ Histic Epipedon (A2) ☐ Black Histic (A3) ☐ Hydrogen Sulfide (A4) ☐ Stratified Layers (A5) ☐ Organic Bodies (A6) (LRR P, T, U) ☐ 5 cm Mucky Mineral (A7) (LRR P, T, U) ☐ Muck Presence (A8) (LRR U) ☐ 1 cm Muck (A9) (LRR P, T) ☒ Depleted Below Dark Surface (A11) ☐ Thick Dark Surface (A12) ☐ Coast Prairie Redox (A16) (MLRA 150A) ☐ Sandy Mucky Mineral (S1) (LRR O, S) ☐ Sandy Gleyed Matrix (S4) ☐ Sandy Redox (S5) ☐ Stripped Matrix (S6) ☐ Dark Surface (S7) (LRR P, S, T, U)						☐ Polyvalue Below Surface (S8) (LRR S, T, U) ☐ Thin Dark Surface (S9) (LRR S, T, U) ☐ Loamy Mucky Mineral (F1) (LRR O) ☐ Loamy Gleyed Matrix (F2) ☐ Depleted Matrix (F3) ☐ Redox Dark Surface (F6) ☐ Depleted Dark Surface (F7) ☐ Redox Depressions (F8) ☐ Marl (F10) (LRR U) ☐ Depleted Ochric (F11) (MLRA 151) ☐ Iron-Manganese Masses (F12) (LRR O, P, T) ☐ Umbric Surface (F13) (LRR P, T, U) ☐ Delta Ochric (F17) (MLRA 151) ☐ Reduced Vertic (F18) (MLRA 150A, 150B) ☐ Piedmont Floodplain Soils (F19) (MLRA 149A) ☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)						☐ 1 cm Muck (A9) (LRR O) ☐ 2 cm Muck (A10) (LRR S) ☐ Reduced Vertic (F18) (outside MLRA 150A,B) ☐ Piedmont Floodplain Soils (F19) (LRR P, S, T) ☐ Anomalous Bright Loamy Soils (F20) ☐ (MLRA 153B) ☐ Red Parent Material (TF2) ☐ Very Shallow Dark Surface (TF12) ☐ Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.		
Restrictive Layer (if observed): Type: _____ Compacted layer _____ Depth (inches): _____ 7 _____							Hydric Soil Present? Yes _____ X _____ No _____							
Remarks: A positive indication of hydric soil was observed.														

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

DP35

	Absolute % cover	Dominant Species	Indicator Status																													
Tree Stratum (Plot size: 30 ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)																												
1. <i>None Observed</i>																																
2.																																
3.																																
4.																																
5.																																
6.																																
		= Total Cover																														
50% of total cover:		20% of total cover:																														
Sapling Stratum (Plot size: 30 ft.)				Prevalence Index Worksheet: <table style="width: 100%;"> <tr> <th colspan="2">Total % Cover of:</th> <th colspan="2">Multiply by:</th> </tr> <tr> <td>OBL species</td> <td><u>2</u></td> <td>x 1 =</td> <td><u>2</u></td> </tr> <tr> <td>FACW species</td> <td><u>0</u></td> <td>x 2 =</td> <td><u>0</u></td> </tr> <tr> <td>FAC species</td> <td><u>18</u></td> <td>x 3 =</td> <td><u>54</u></td> </tr> <tr> <td>FACU species</td> <td><u>119</u></td> <td>x 4 =</td> <td><u>476</u></td> </tr> <tr> <td>UPL species</td> <td><u>0</u></td> <td>x 5 =</td> <td><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>139</u></td> <td>(A)</td> <td><u>532</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>3.83</u>	Total % Cover of:		Multiply by:		OBL species	<u>2</u>	x 1 =	<u>2</u>	FACW species	<u>0</u>	x 2 =	<u>0</u>	FAC species	<u>18</u>	x 3 =	<u>54</u>	FACU species	<u>119</u>	x 4 =	<u>476</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals:	<u>139</u>	(A)	<u>532</u> (B)
Total % Cover of:		Multiply by:																														
OBL species	<u>2</u>	x 1 =	<u>2</u>																													
FACW species	<u>0</u>	x 2 =	<u>0</u>																													
FAC species	<u>18</u>	x 3 =	<u>54</u>																													
FACU species	<u>119</u>	x 4 =	<u>476</u>																													
UPL species	<u>0</u>	x 5 =	<u>0</u>																													
Column Totals:	<u>139</u>	(A)	<u>532</u> (B)																													
1. <i>None Observed</i>																																
2.																																
3.																																
4.																																
5.																																
6.																																
		= Total Cover																														
50% of total cover:		20% of total cover:																														
Shrub Stratum (Plot size: 30 ft.)				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤ 3.0 ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)																												
1. <i>None Observed</i>																																
2.																																
3.																																
4.																																
5.																																
6.																																
		= Total Cover																														
50% of total cover:		20% of total cover:																														
Herb Stratum (Plot size: 30 ft.)				Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height. Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>																												
1. <i>Paspalum notatum</i>	95	Yes	FACU																													
2. <i>Paspalum urvillei</i>	15	No	FAC																													
3. <i>Eupatorium capillifolium</i>	10	No	FACU																													
4. <i>Ambrosia artemisiifolia</i>	10	No	FACU																													
5. <i>Phyla nodiflora</i>	3	No	FAC																													
6. <i>Verbena brasiliensis</i>	3	No	FACU																													
7. <i>Hydrocotyle umbellata</i>	2	No	OBL																													
8. <i>Rubus trivialis</i>	1	No	FACU																													
9.																																
10.																																
11.																																
	139	= Total Cover																														
50% of total cover:	69.5	20% of total cover:	27.8																													
Woody Vine Stratum (Plot size: 30 ft.)																																
1. <i>None Observed</i>																																
2.																																
3.																																
4.																																
5.																																
		= Total Cover																														
50% of total cover:		20% of total cover:																														
Remarks: (if observed, list morphological adaptations below). No positive indication of hydrophytic vegetation was observed (≥50% of dominant species indexed as FAC- or drier).																																

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site:	Site 1	County:	Hancock	Sampling Date:	August 15, 2022
Applicant/Owner:	Hancock County Port & Harbor Commission	State:	Mississippi	Sample Point:	DP36
Investigator(s):	Savannah R. Morales and Payton Billingsley	Section, Township, Range:	Section 30, Township 9S, Range 15W		
Landform (hillslope, terrace, etc.):	Dirt road/right-of-way	Local relief (concave, convex, none):	Convex	Slope (%):	0-5
Subregion (LRR or MLRA):	MLRA 152A, LRR T	Lat:	30.23104	Long:	-89.53972
Soil Map Unit Name:	Harleston fine sandy loam, 0-2% slopes	Datum:	WGS84	NWI Classification:	None
Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) Yes (if no, explain in Remarks.)					
Are Vegetation No ,Soil No ,or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No					
Are Vegetation No ,Soil No ,or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)					

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No	Is the Sampled Area within a Wetland?	Yes X	No
Hydric Soil Present?	Yes X	No			
Wetland Hydrology Present?	Yes X	No			
Remarks: This point was determined to be within a wetland due to the presence of all three wetland criteria.					

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)	
☐ High Water Table (A2)	☐ Marl Deposits (B15) (LRR U)			☐ Sparsely Vegetated Concave Surface (B8)	
☒ Saturation (A3)	☐ Hydrogen Sulfide Odor (C1)			☐ Drainage Patterns (B10)	
☐ Water Marks (B1)	☐ Oxidized Rhizospheres on Living Roots (C3)			☐ Moss Trim Lines (B16)	
☐ Sediment Deposits (B2)	☐ Presence of Reduced Iron (C4)			☐ Dry-Season Water Table (C2)	
☐ Drift Deposits (B3)	☐ Recent Iron Reduction in Tilled Soils (C6)			☐ Crayfish Burrows (C8)	
☐ Algal Mat or Crust (B4)	☐ Thin Muck Surface (C7)			☐ Saturation Visible on Aerial Imagery (C9)	
☐ Iron Deposits (B5)	☐ Other (Explain in Remarks)			☐ Geomorphic Position (D2)	
☐ Inundation Visible on Aerial Imagery (B7)				☐ Shallow Aquitard (D3)	
☐ Water-Stained Leaves (B9)				☐ FAC-Neutral Test (D5)	
				☐ Sphagnum moss (D8) (LRR T, U)	
Field Observations:				Wetland Hydrology Present?	
Surface Water Present?	Yes No X	Depth (inches):	N/A	Yes X	No
Water Table Present?	Yes No X	Depth (inches):	>16		
Saturation Present?	Yes X No	Depth (inches):	0-16		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks: A positive indication of wetland hydrology was observed (at least one primary indicator).					

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth (inches)	Matrix		Redox Features			Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	
0-12	10YR 3/2	95	10YR 4/6	5	C	M	Silt loam
12-16	10YR 3/2	80	10YR 4/6	10	C	M	Silt loam
			10YR 6/2	10	D	M	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.							
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)				Indicators for Problematic Hydric Soils³:			
☐ Histosol (A1)	☐ Polyvalue Below Surface (S8) (LRR S, T, U)			☐ 1 cm Muck (A9) (LRR O)			
☐ Histic Epipedon (A2)	☐ Thin Dark Surface (S9) (LRR S, T, U)			☐ 2 cm Muck (A10) (LRR S)			
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (LRR O)			☐ Reduced Vertic (F18) (outside MLRA 150A,B)			
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)			☐ Piedmont Floodplain Soils (F19) (LRR P, S, T)			
☐ Stratified Layers (A5)	☐ Depleted Matrix (F3)			☐ Anomalous Bright Loamy Soils (F20)			
☐ Organic Bodies (A6) (LRR P, T, U)	☐ Redox Dark Surface (F6)			☐ (MLRA 153B)			
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)	☐ Depleted Dark Surface (F7)			☐ Red Parent Material (TF2)			
☐ Muck Presence (A8) (LRR U)	☐ Redox Depressions (F8)			☐ Very Shallow Dark Surface (TF12)			
☐ 1 cm Muck (A9) (LRR P, T)	☐ Marl (F10) (LRR U)			☐ Other (Explain in Remarks)			
☐ Depleted Below Dark Surface (A11)	☐ Depleted Ochric (F11) (MLRA 151)						
☐ Thick Dark Surface (A12)	☐ Iron-Manganese Masses (F12) (LRR O, P, T)						
☐ Coast Prairie Redox (A16) (MLRA 150A)	☐ Umbric Surface (F13) (LRR P, T, U)						
☐ Sandy Mucky Mineral (S1) (LRR O, S)	☐ Delta Ochric (F17) (MLRA 151)						
☐ Sandy Gleyed Matrix (S4)	☐ Reduced Vertic (F18) (MLRA 150A, 150B)						
☒ Sandy Redox (S5)	☐ Piedmont Floodplain Soils (F19) (MLRA 149A)						
☐ Stripped Matrix (S6)	☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)						
☐ Dark Surface (S7) (LRR P, S, T, U)							
Restrictive Layer (if observed):				Hydric Soil Present?			
Type: _____				Yes X No			
Depth (inches): _____							
Remarks: A positive indication of hydric soil was observed.							

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

DP36

	Absolute % cover	Dominant Species	Indicator Status															
Tree Stratum (Plot size: <u>30</u> ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)														
1. <i>None Observed</i>																		
2.																		
3.																		
4.																		
5.																		
6.																		
			= Total Cover															
50% of total cover:			20% of total cover:															
Sapling Stratum (Plot size: <u>30</u> ft.)				Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: left;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>100</u></td> <td>x 3 = <u>300</u></td> </tr> <tr> <td>FACU species <u>5</u></td> <td>x 4 = <u>20</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>105</u></td> <td>(A) <u>320</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>3.05</u>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>100</u>	x 3 = <u>300</u>	FACU species <u>5</u>	x 4 = <u>20</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>105</u>	(A) <u>320</u> (B)
Total % Cover of:	Multiply by:																	
OBL species <u>0</u>	x 1 = <u>0</u>																	
FACW species <u>0</u>	x 2 = <u>0</u>																	
FAC species <u>100</u>	x 3 = <u>300</u>																	
FACU species <u>5</u>	x 4 = <u>20</u>																	
UPL species <u>0</u>	x 5 = <u>0</u>																	
Column Totals: <u>105</u>	(A) <u>320</u> (B)																	
1. <i>None Observed</i>																		
2.																		
3.																		
4.																		
5.																		
6.																		
			= Total Cover															
50% of total cover:			20% of total cover:															
Shrub Stratum (Plot size: <u>30</u> ft.)				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤ 3.0 ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)														
1. <i>None Observed</i>																		
2.																		
3.																		
4.																		
5.																		
6.																		
			= Total Cover															
50% of total cover:			20% of total cover:															
Herb Stratum (Plot size: <u>30</u> ft.)				Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height.														
1. <i>Paspalum urvillei</i>	100	Yes	FAC															
2. <i>Lespedeza cuneata</i>	5	No	FACU															
3.																		
4.																		
5.																		
6.																		
7.																		
8.																		
9.																		
10.																		
11.																		
			= Total Cover															
50% of total cover:			20% of total cover:															
Woody Vine Stratum (Plot size: <u>30</u> ft.)				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>														
1. <i>None Observed</i>																		
2.																		
3.																		
4.																		
5.																		
			= Total Cover															
50% of total cover:			20% of total cover:															
Remarks: (if observed, list morphological adaptations below). A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).																		

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site:	Site 1	County:	Hancock	Sampling Date:	August 15, 2022
Applicant/Owner:	Hancock County Port & Harbor Commission	State:	Mississippi	Sample Point:	DP37
Investigator(s):	Savannah R. Morales and Payton Billingsley	Section, Township, Range:	Section 30, Township 9S, Range 15W		
Landform (hillslope, terrace, etc.):	Dirt road/right-of-way	Local relief (concave, convex, none):	None	Slope (%):	0-5
Subregion (LRR or MLRA):	MLRA 152A, LRR T	Lat:	30.23690	Long:	-89.53800
Soil Map Unit Name:	Ocilla loamy sand, 0-2% slopes	Datum:	WGS84	NWI Classification:	None
Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) Yes (if no, explain in Remarks.)					
Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No					
Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)					

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No	Is the Sampled Area within a Wetland?	Yes X	No
Hydric Soil Present?	Yes X	No			
Wetland Hydrology Present?	Yes X	No			
Remarks: This point was determined to be within a wetland due to the presence of all three wetland criteria.					

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)			
☐ High Water Table (A2)	☐ Marl Deposits (B15) (LRR U)	☐ Sparsely Vegetated Concave Surface (B8)			
☒ Saturation (A3)	☐ Hydrogen Sulfide Odor (C1)	☐ Drainage Patterns (B10)			
☐ Water Marks (B1)	☒ Oxidized Rhizospheres on Living Roots (C3)	☐ Moss Trim Lines (B16)			
☐ Sediment Deposits (B2)	☐ Presence of Reduced Iron (C4)	☐ Dry-Season Water Table (C2)			
☐ Drift Deposits (B3)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Crayfish Burrows (C8)			
☐ Algal Mat or Crust (B4)	☐ Thin Muck Surface (C7)	☐ Saturation Visible on Aerial Imagery (C9)			
☐ Iron Deposits (B5)	☐ Other (Explain in Remarks)	☐ Geomorphic Position (D2)			
☐ Inundation Visible on Aerial Imagery (B7)		☒ Shallow Aquitard (D3)			
☐ Water-Stained Leaves (B9)		☒ FAC-Neutral Test (D5)			
				☐ Sphagnum moss (D8) (LRR T, U)	
Field Observations:				Wetland Hydrology Present?	
Surface Water Present?	Yes No X	Depth (inches):	N/A	Yes X	No
Water Table Present?	Yes No X	Depth (inches):	>16		
Saturation Present?	Yes X No	Depth (inches):	0-16		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks: A positive indication of wetland hydrology was observed (at least one primary indicator).					

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth (inches)	Matrix		Redox Features			Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	
0-2	10YR 2/1	100					Silt loam
2-16	10YR 5/2	90	10YR 5/6	8	C	M	Silt loam
			10YR 5/6	2	C	PL	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.							
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)				Indicators for Problematic Hydric Soils³:			
☐ Histosol (A1)	☐ Polyvalue Below Surface (S8) (LRR S, T, U)			☐ 1 cm Muck (A9) (LRR O)			
☐ Histic Epipedon (A2)	☐ Thin Dark Surface (S9) (LRR S, T, U)			☐ 2 cm Muck (A10) (LRR S)			
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (LRR O)			☐ Reduced Vertic (F18) (outside MLRA 150A,B)			
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)			☐ Piedmont Floodplain Soils (F19) (LRR P, S, T)			
☐ Stratified Layers (A5)	☒ Depleted Matrix (F3)			☐ Anomalous Bright Loamy Soils (F20)			
☐ Organic Bodies (A6) (LRR P, T, U)	☐ Redox Dark Surface (F6)			☐ (MLRA 153B)			
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)	☐ Depleted Dark Surface (F7)			☐ Red Parent Material (TF2)			
☐ Muck Presence (A8) (LRR U)	☐ Redox Depressions (F8)			☐ Very Shallow Dark Surface (TF12)			
☐ 1 cm Muck (A9) (LRR P, T)	☐ Marl (F10) (LRR U)			☐ Other (Explain in Remarks)			
☐ Depleted Below Dark Surface (A11)	☐ Depleted Ochric (F11) (MLRA 151)						
☐ Thick Dark Surface (A12)	☐ Iron-Manganese Masses (F12) (LRR O, P, T)						
☐ Coast Prairie Redox (A16) (MLRA 150A)	☐ Umbric Surface (F13) (LRR P, T, U)						
☐ Sandy Mucky Mineral (S1) (LRR O, S)	☐ Delta Ochric (F17) (MLRA 151)						
☐ Sandy Gleyed Matrix (S4)	☐ Reduced Vertic (F18) (MLRA 150A, 150B)						
☐ Sandy Redox (S5)	☐ Piedmont Floodplain Soils (F19) (MLRA 149A)						
☐ Stripped Matrix (S6)	☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)						
☐ Dark Surface (S7) (LRR P, S, T, U)							
Restrictive Layer (if observed):				Hydric Soil Present?			
Type: _____				Yes X No			
Depth (inches): _____							
Remarks: A positive indication of hydric soil was observed.							

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

DP37

	Absolute % cover	Dominant Species	Indicator Status																																				
Tree Stratum (Plot size: <u>30</u> ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																																			
1. <i>None Observed</i>																																							
2.																																							
3.																																							
4.																																							
5.																																							
6.																																							
		= Total Cover																																					
50% of total cover:		20% of total cover:																																					
Sapling Stratum (Plot size: <u>30</u> ft.)				Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%; text-align: center;">Total % Cover of:</td> <td style="width: 10%;"></td> <td style="width: 10%; text-align: center;">Multiply by:</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td>x 1 =</td> <td style="text-align: center;"><u>0</u></td> <td></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>88</u></td> <td>x 2 =</td> <td style="text-align: center;"><u>176</u></td> <td></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>28</u></td> <td>x 3 =</td> <td style="text-align: center;"><u>84</u></td> <td></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>0</u></td> <td>x 4 =</td> <td style="text-align: center;"><u>0</u></td> <td></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td>x 5 =</td> <td style="text-align: center;"><u>0</u></td> <td></td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;"><u>116</u></td> <td>(A)</td> <td style="text-align: center;"><u>260</u></td> <td>(B)</td> </tr> </table> Prevalence Index = B/A = <u>2.24</u>	Total % Cover of:		Multiply by:			OBL species	<u>0</u>	x 1 =	<u>0</u>		FACW species	<u>88</u>	x 2 =	<u>176</u>		FAC species	<u>28</u>	x 3 =	<u>84</u>		FACU species	<u>0</u>	x 4 =	<u>0</u>		UPL species	<u>0</u>	x 5 =	<u>0</u>		Column Totals:	<u>116</u>	(A)	<u>260</u>	(B)
Total % Cover of:		Multiply by:																																					
OBL species	<u>0</u>	x 1 =	<u>0</u>																																				
FACW species	<u>88</u>	x 2 =	<u>176</u>																																				
FAC species	<u>28</u>	x 3 =	<u>84</u>																																				
FACU species	<u>0</u>	x 4 =	<u>0</u>																																				
UPL species	<u>0</u>	x 5 =	<u>0</u>																																				
Column Totals:	<u>116</u>	(A)	<u>260</u>	(B)																																			
1. <i>None Observed</i>																																							
2.																																							
3.																																							
4.																																							
5.																																							
6.																																							
		= Total Cover																																					
50% of total cover:		20% of total cover:																																					
Shrub Stratum (Plot size: <u>30</u> ft.)				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>X</u> <u>3</u> - Prevalence Index is ≤ 3.0 ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)																																			
1. <i>None Observed</i>																																							
2.																																							
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6.																																							
		= Total Cover																																					
50% of total cover:		20% of total cover:																																					
Herb Stratum (Plot size: <u>30</u> ft.)				Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height. Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																																			
1. <i>Andropogon mohrii</i>	75	Yes	FACW																																				
2. <i>Andropogon virginicus</i>	20	No	FAC																																				
3. <i>Rhynchospora elliotii</i>	10	No	FACW																																				
4. <i>Morella cerifera</i>	5	No	FAC																																				
5. <i>Pinus elliotii</i>	3	No	FACW																																				
6. <i>Hypericum hypericoides</i>	3	No	FAC																																				
7.																																							
8.																																							
9.																																							
10.																																							
11.																																							
	116	= Total Cover																																					
50% of total cover:	58	20% of total cover:	23.2																																				
Woody Vine Stratum (Plot size: <u>30</u> ft.)																																							
1. <i>None Observed</i>																																							
2.																																							
3.																																							
4.																																							
5.																																							
		= Total Cover																																					
50% of total cover:		20% of total cover:																																					
Remarks: (if observed, list morphological adaptations below). A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).																																							

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site:	Site 1	County:	Hancock	Sampling Date:	August 31, 2022
Applicant/Owner:	Hancock County Port & Harbor Commission	State:	Mississippi	Sample Point:	DP38
Investigator(s):	Savannah R. Morales and Beth Beals	Section, Township, Range:	Section 19, Township 9S, Range 15W		
Landform (hillslope, terrace, etc.):	Overgrown righ-of-way	Local relief (concave, convex, none):	Concave	Slope (%):	0-5
Subregion (LRR or MLRA):	MLRA 152A, LRR T	Lat:	30.24141	Long:	-89.54251
Soil Map Unit Name:	Escambia loam, 0-2% slopes	Datum:	WGS84	NWI Classification:	None
Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) Yes (if no, explain in Remarks.)					
Are Vegetation No ,Soil No ,or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No					
Are Vegetation No ,Soil No ,or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)					

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No	Is the Sampled Area within a Wetland? Yes X No
Hydric Soil Present?	Yes X	No	
Wetland Hydrology Present?	Yes X	No	
Remarks: This point was determined to be within a wetland due to the presence of all three wetland criteria.			

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)	
☒ High Water Table (A2)		☐ Marl Deposits (B15) (LRR U)		☐ Sparsely Vegetated Concave Surface (B8)	
☒ Saturation (A3)		☐ Hydrogen Sulfide Odor (C1)		☐ Drainage Patterns (B10)	
☐ Water Marks (B1)		☐ Oxidized Rhizospheres on Living Roots(C3)		☐ Moss Trim Lines (B16)	
☐ Sediment Deposits (B2)		☐ Presence of Reduced Iron (C4)		☐ Dry-Season Water Table (C2)	
☐ Drift Deposits (B3)		☐ Recent Iron Reduction in Tilled Soils (C6)		☐ Crayfish Burrows (C8)	
☒ Algal Mat or Crust (B4)		☐ Thin Muck Surface (C7)		☐ Saturation Visible on Aerial Imagery (C9)	
☐ Iron Deposits (B5)		☐ Other (Explain in Remarks)		☐ Geomorphic Position (D2)	
☐ Inundation Visible on Aerial Imagery (B7)				☐ Shallow Aquitard (D3)	
☐ Water-Stained Leaves (B9)				☒ FAC-Neutral Test (D5)	
				☐ Sphagnum moss (D8) (LRR T, U)	
Field Observations:				Wetland Hydrology Present? Yes X No	
Surface Water Present?	Yes X No	Depth (inches):	< 1		
Water Table Present?	Yes X No	Depth (inches):	0		
Saturation Present?	Yes X No	Depth (inches):	0-16		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks: A positive indication of wetland hydrology was observed (at least one primary indicator).					

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth (inches)	Matrix		Redox Features			Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	
0-6	10YR 2/1	60					Masked sand grains
	10YR 3/1	40					
6-16	10YR 5/2	60					Sandy loam
	10YR 3/1	40					
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.							
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)							Indicators for Problematic Hydric Soils³:
☐ Histosol (A1)	☐ Polyvalue Below Surface (S8) (LRR S, T, U)			☐ 1 cm Muck (A9) (LRR O)			
☐ Histic Epipedon (A2)	☐ Thin Dark Surface (S9) (LRR S, T, U)			☐ 2 cm Muck (A10) (LRR S)			
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (LRR O)			☐ Reduced Vertic (F18) (outside MLRA 150A,B)			
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)			☐ Piedmont Floodplain Soils (F19) (LRR P, S, T)			
☐ Stratified Layers (A5)	☐ Depleted Matrix (F3)			☐ Anomalous Bright Loamy Soils (F20)			
☐ Organic Bodies (A6) (LRR P, T, U)	☐ Redox Dark Surface (F6)			☐ (MLRA 153B)			
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)	☐ Depleted Dark Surface (F7)			☐ Red Parent Material (TF2)			
☐ Muck Presence (A8) (LRR U)	☐ Redox Depressions (F8)			☐ Very Shallow Dark Surface (TF12)			
☐ 1 cm Muck (A9) (LRR P, T)	☐ Marl (F10) (LRR U)			☐ Other (Explain in Remarks)			
☐ Depleted Below Dark Surface (A11)	☐ Depleted Ochric (F11) (MLRA 151)						
☐ Thick Dark Surface (A12)	☐ Iron-Manganese Masses (F12) (LRR O, P, T)						
☐ Coast Prairie Redox (A16) (MLRA 150A)	☐ Umbric Surface (F13) (LRR P, T, U)						
☐ Sandy Mucky Mineral (S1) (LRR O, S)	☐ Delta Ochric (F17) (MLRA 151)						
☐ Sandy Gleyed Matrix (S4)	☐ Reduced Vertic (F18) (MLRA 150A, 150B)						
☐ Sandy Redox (S5)	☐ Piedmont Floodplain Soils (F19) (MLRA 149A)						
☒ Stripped Matrix (S6)	☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)						
☒ Dark Surface (S7) (LRR P, S, T, U)							
Restrictive Layer (if observed):				Hydric Soil Present? Yes X No			
Type: _____							
Depth (inches): _____							
Remarks: A positive indication of hydric soil was observed.							

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

DP38

	Absolute % cover	Dominant Species	Indicator Status																																				
Tree Stratum (Plot size: <u>30</u> ft.)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																																			
1. <u>None Observed</u>																																							
2. _____																																							
3. _____																																							
4. _____																																							
5. _____																																							
6. _____																																							
		= Total Cover																																					
50% of total cover:		20% of total cover:																																					
Sapling Stratum (Plot size: <u>30</u> ft.)				Prevalence Index Worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;"></td> <td style="width: 10%; text-align: center;">Total % Cover of:</td> <td style="width: 10%;"></td> <td style="width: 10%; text-align: center;">Multiply by:</td> <td style="width: 10%;"></td> </tr> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td>x 1 =</td> <td></td> <td style="text-align: center;"><u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>88</u></td> <td>x 2 =</td> <td></td> <td style="text-align: center;"><u>176</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>24</u></td> <td>x 3 =</td> <td></td> <td style="text-align: center;"><u>72</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>10</u></td> <td>x 4 =</td> <td></td> <td style="text-align: center;"><u>40</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td>x 5 =</td> <td></td> <td style="text-align: center;"><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;"><u>122</u></td> <td>(A)</td> <td></td> <td style="text-align: center;"><u>288</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>2.36</u>		Total % Cover of:		Multiply by:		OBL species	<u>0</u>	x 1 =		<u>0</u>	FACW species	<u>88</u>	x 2 =		<u>176</u>	FAC species	<u>24</u>	x 3 =		<u>72</u>	FACU species	<u>10</u>	x 4 =		<u>40</u>	UPL species	<u>0</u>	x 5 =		<u>0</u>	Column Totals:	<u>122</u>	(A)		<u>288</u> (B)
	Total % Cover of:		Multiply by:																																				
OBL species	<u>0</u>	x 1 =			<u>0</u>																																		
FACW species	<u>88</u>	x 2 =			<u>176</u>																																		
FAC species	<u>24</u>	x 3 =			<u>72</u>																																		
FACU species	<u>10</u>	x 4 =			<u>40</u>																																		
UPL species	<u>0</u>	x 5 =			<u>0</u>																																		
Column Totals:	<u>122</u>	(A)		<u>288</u> (B)																																			
1. <u>Pinus elliotii</u>	5	Yes	FACW																																				
2. _____																																							
3. _____																																							
4. _____																																							
5. _____																																							
6. _____																																							
	5	= Total Cover																																					
50% of total cover:	2.5	20% of total cover:	1																																				
Shrub Stratum (Plot size: <u>30</u> ft.)				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>X</u> <u>3</u> - Prevalence Index is ≤ 3.0 ¹ _____ Problematic Hydrophytic Vegetation ¹ (Explain)																																			
1. <u>Pinus elliotii</u>	30	Yes	FACW																																				
2. <u>Quercus virginiana</u>	5	No	FACU																																				
3. <u>Quercus nigra</u>	3	No	FAC																																				
4. _____																																							
5. _____																																							
6. _____																																							
	38	= Total Cover																																					
50% of total cover:	19	20% of total cover:	7.6																																				
Herb Stratum (Plot size: <u>30</u> ft.)				Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height.																																			
1. <u>Balduina uniflora</u>	20	Yes	FACW																																				
2. <u>Rhynchospora elliotii</u>	15	Yes	FACW																																				
3. <u>Andropogon mohrii</u>	15	Yes	FACW																																				
4. <u>Dichanthelium acuminatum</u>	10	No	FAC																																				
5. <u>Hypericum hypericoides</u>	8	No	FAC																																				
6. <u>Quercus virginiana</u>	5	No	FACU																																				
7. <u>Smilax bona-nox</u>	3	No	FAC																																				
8. <u>Pinus elliotii</u>	3	No	FACW																																				
9. _____																																							
10. _____																																							
11. _____																																							
	79	= Total Cover																																					
50% of total cover:	39.5	20% of total cover:	15.8																																				
Woody Vine Stratum (Plot size: <u>30</u> ft.)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____																																			
1. <u>None Observed</u>																																							
2. _____																																							
3. _____																																							
4. _____																																							
5. _____																																							
6. _____																																							
		= Total Cover																																					
50% of total cover:		20% of total cover:																																					
Remarks: (if observed, list morphological adaptations below). A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).																																							

Appendix C: Site Photographs

Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
1

Date:
06/02/2022

Description:
Nonwetland Data Point
1 looking north.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
2

Date:
06/02/2022

Description:
Nonwetland Data Point
1 looking east.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
3

Date:
06/02/2022

Description:
Nonwetland Data Point
I looking south.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
4

Date:
06/02/2022

Description:
Nonwetland Data Point
I looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
5

Date:
06/02/2022

Description:
Wetland Data Point 2
looking north.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
6

Date:
06/02/2022

Description:
Wetland Data Point 2
looking east.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
7

Date:
06/02/2022

Description:
Wetland Data Point 2
looking south.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
8

Date:
06/02/2022

Description:
Wetland Data Point 2
looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
9

Date:
06/02/2022

Description:
Nonwetland Data Point
3 looking north.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
10

Date:
06/02/2022

Description:
Nonwetland Data Point
3 looking east.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
11

Date:
06/02/2022

Description:
Nonwetland Data Point
3 looking south.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
12

Date:
06/02/2022

Description:
Nonwetland Data Point
3 looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
13

Date:
06/07/2022

Description:
Wetland Data Point 4
looking north.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
14

Date:
06/07/2022

Description:
Wetland Data Point 4
looking east.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
15

Date:
06/07/2022

Description:
Wetland Data Point 4
looking south.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
16

Date:
06/07/2022

Description:
Wetland Data Point 4
looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
17

Date:
06/07/2022

Description:
Wetland Data Point 4
looking at water in soil
hole.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
18

Date:
06/07/2022

Description:
Nonwetland Data Point
5 looking north.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
19

Date:
06/07/2022

Description:
Nonwetland Data Point
5 looking east.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
20

Date:
06/07/2022

Description:
Nonwetland Data Point
5 looking south.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
21

Date:
06/07/2022

Description:
Nonwetland Data Point
5 looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
22

Date:
06/07/2022

Description:
Wetland Data Point 6
looking north.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
23

Date:
06/07/2022

Description:
Wetland Data Point 6
looking east.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
24

Date:
06/07/2022

Description:
Wetland Data Point 6
looking south.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
25

Date:
06/07/2022

Description:
Wetland Data Point 6
looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
26

Date:
06/14/2022

Description:
Nonwetland Data Point
7 looking north.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
27

Date:
06/14/2022

Description:
Nonwetland Data Point
7 looking east.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
28

Date:
06/14/2022

Description:
Nonwetland Data Point
7 looking south.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
29

Date:
06/14/2022

Description:
Nonwetland Data Point
7 looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
30

Date:
06/14/2022

Description:
Wetland Data Point 8
looking north.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
31

Date:
06/14/2022

Description:
Wetland Data Point 8
looking east.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
32

Date:
06/14/2022

Description:
Wetland Data Point 8
looking south.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
33

Date:
06/14/2022

Description:
Wetland Data Point 8
looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
34

Date:
06/14/2022

Description:
Wetland Data Point 9
looking north.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
35

Date:
06/14/2022

Description:
Wetland Data Point 9
looking east.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
36

Date:
06/14/2022

Description:
Wetland Data Point 9
looking south.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
37

Date:
06/14/2022

Description:
Wetland Data Point 9
looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
38

Date:
06/30/2022

Description:
Wetland Data Point 10
looking north.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
39

Date:
06/30/2022

Description:
Wetland Data Point 10
looking south.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
40

Date:
06/30/2022

Description:
Wetland Data Point 10
looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
41

Date:
06/30/2022

Description:
Wetland Data Point 11
looking north.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
42

Date:
06/30/2022

Description:
Wetland Data Point 11
looking south.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
43

Date:
06/30/2022

Description:
Wetland Data Point 11
looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
44

Date:
07/08/2022

Description:
Wetland Data Point 12
looking north.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
45

Date:
07/08/2022

Description:
Wetland Data Point 12
looking east.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
46

Date:
07/08/2022

Description:
Wetland Data Point 12
looking south.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
47

Date:
07/08/2022

Description:
Wetland Data Point 12
looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
48

Date:
07/08/2022

Description:
Nonwetland Data Point
13 looking north.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
49

Date:
07/08/2022

Description:
Nonwetland Data Point
13 looking east.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
50

Date:
07/08/2022

Description:
Nonwetland Data Point
13 looking south.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
51

Date:
07/08/2022

Description:
Nonwetland Data Point
13 looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
52

Date:
7/15/2022

Description:
Nonwetland Data Point
14 looking north.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
53

Date:
7/15/2022

Description:
Nonwetland Data Point
14 looking east.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
54

Date:
7/15/2022

Description:
Nonwetland Data Point
14 looking south.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
55

Date:
7/15/2022

Description:
Nonwetland Data Point
14 looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
56

Date:
7/13/2022

Description:
Wetland Data Point 15
looking north.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
57

Date:
7/13/2022

Description:
Wetland Data Point 15
looking east.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
58

Date:
7/13/2022

Description:
Wetland Data Point 15
looking south.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
59

Date:
7/13/2022

Description:
Wetland Data Point 15
looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
60

Date:
7/13/2022

Description:
Wetland Data Point 16
looking north.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
61

Date:
7/13/2022

Description:
Wetland Data Point 16
looking east.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
62

Date:
7/13/2022

Description:
Wetland Data Point 16
looking south.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
63

Date:
7/13/2022

Description:
Wetland Data Point 16
looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
64

Date:
7/13/2022

Description:
Wetland Data Point 17
looking north.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
65

Date:
7/13/2022

Description:
Wetland Data Point 17
looking east.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
66

Date:
7/13/2022

Description:
Wetland Data Point 17
looking south.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
67

Date:
7/13/2022

Description:
Wetland Data Point 17
looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
68

Date:
7/15/2022

Description:
Nonwetland Data Point
18 looking north.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
69

Date:
7/15/2022

Description:
Nonwetland Data Point
18 looking east.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
70

Date:
7/15/2022

Description:
Nonwetland Data Point
18 looking south.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
71

Date:
7/15/2022

Description:
Nonwetland Data Point
18 looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
72

Date:
7/19/2022

Description:
Wetland Data Point 19
looking north.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
73

Date:
7/19/2022

Description:
Wetland Data Point 19
looking east.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
74

Date:
7/19/2022

Description:
Wetland Data Point 19
looking south.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
75

Date:
7/19/2022

Description:
Wetland Data Point 19
looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
76

Date:
7/19/2022

Description:
Wetland Data Point 20
looking north.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
77

Date:
7/19/2022

Description:
Wetland Data Point 20
looking east.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
78

Date:
7/19/2022

Description:
Wetland Data Point 20
looking south.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
79

Date:
7/19/2022

Description:
Wetland Data Point 20
looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
80

Date:
7/19/2022

Description:
Wetland Data Point 21
looking north.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
81

Date:
7/19/2022

Description:
Wetland Data Point 21
looking east.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
82

Date:
7/19/2022

Description:
Wetland Data Point 21
looking south.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
83

Date:
7/19/2022

Description:
Wetland Data Point 21
looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
84

Date:
7/20/2022

Description:
Wetland Data Point 22
looking north.



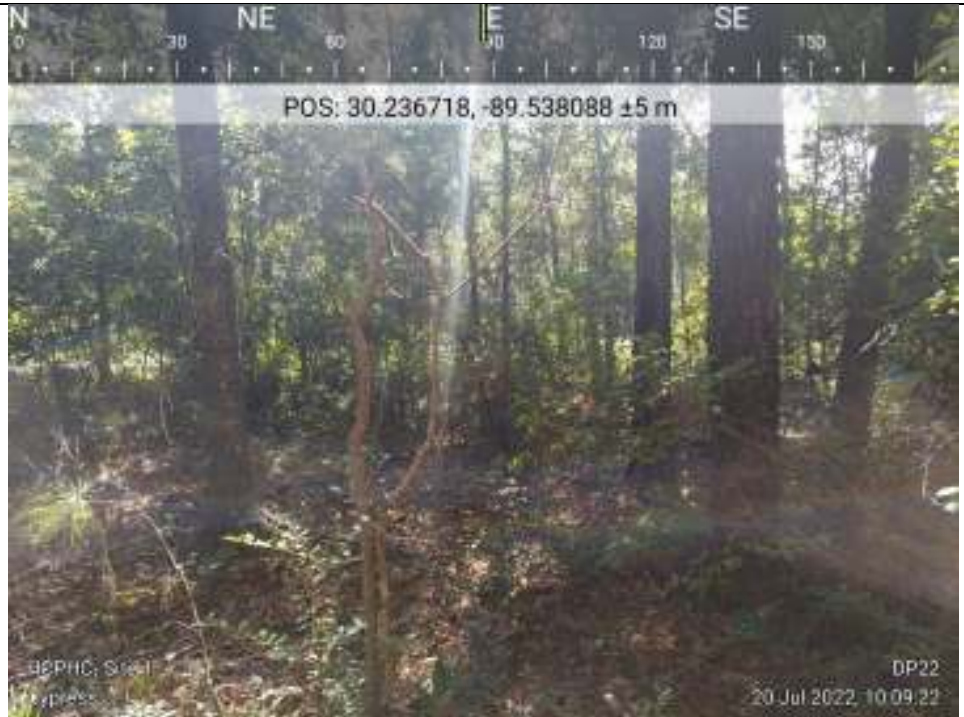
Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
85

Date:
7/20/2022

Description:
Wetland Data Point 22
looking east.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
86

Date:
7/20/2022

Description:
Wetland Data Point 22
looking south.



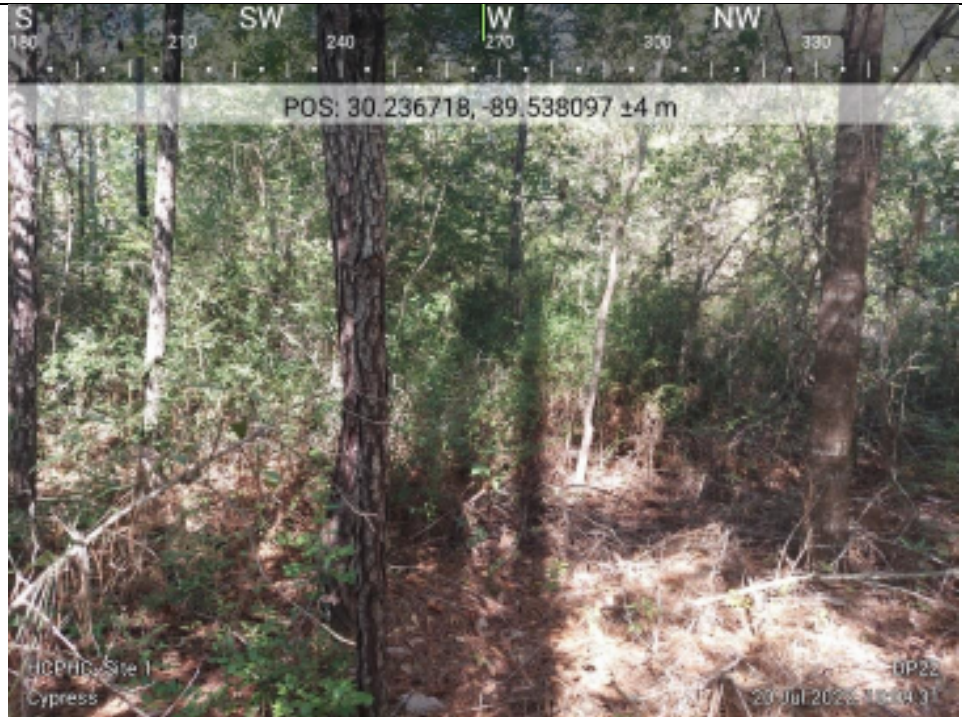
Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
87

Date:
7/20/2022

Description:
Wetland Data Point 22
looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
88

Date:
7/20/2022

Description:
Wetland Data Point 23
looking north.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
89

Date:
7/20/2022

Description:
Wetland Data Point 23
looking east.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
90

Date:
7/20/2022

Description:
Wetland Data Point 23
looking south.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
91

Date:
7/20/2022

Description:
Wetland Data Point 23
looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
92

Date:
7/20/2022

Description:
Wetland Data Point 24
looking north.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
93

Date:
7/20/2022

Description:
Wetland Data Point 24
looking east.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
94

Date:
7/20/2022

Description:
Wetland Data Point 24
looking south.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
95

Date:
7/20/2022

Description:
Wetland Data Point 24
looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
96

Date:
7/20/2022

Description:
Wetland Data Point 24
water in soil hole.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
97

Date:
7/27/2022

Description:
Wetland Data Point 25
looking north.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
98

Date:
7/27/2022

Description:
Wetland Data Point 25
looking south.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
99

Date:
7/27/2022

Description:
Wetland Data Point 25
looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
100

Date:
7/27/2022

Description:
Wetland Data Point 26
looking north.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
101

Date:
7/27/2022

Description:
Wetland Data Point 26
looking east.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
102

Date:

Description:
Wetland Data Point 26
looking south.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
103

Date:
7/27/2022

Description:
Wetland Data Point 26
looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
104

Date:
7/27/2022

Description:
Nonwetland Data Point
27 looking north.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
105

Date:
7/27/2022

Description:
Nonwetland Data Point
27 looking east.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
106

Date:
7/27/2022

Description:
Nonwetland Data Point
27 looking south.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
107

Date:
7/27/2022

Description:
Nonwetland Data Point
27 looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
108

Date:
7/27/2022

Description:
Nonwetland Data Point
28 looking north.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
109

Date:
7/27/2022

Description:
Nonwetland Data Point
28 looking east.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
110

Date:
7/27/2022

Description:
Nonwetland Data Point
28 looking south.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
111

Date:
7/27/2022

Description:
Nonwetland Data Point
28 looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
112

Date:
8/5/2022

Description:
Upalnd Data Point 29
looking north.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
113

Date:
8/5/2022

Description:
Nonwetland Data Point
29 looking east.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
114

Date:
8/5/2022

Description:
Nonwetland Data Point
29 looking south.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
115

Date:
8/5/2022

Description:
Nonwetland Data Point
29 looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
116

Date:
8/5/2022

Description:
Wetland Data Point 30
looking north.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
117

Date:
8/5/2022

Description:
Wetland Data Point 30
looking east.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
118

Date:
8/5/2022

Description:
Wetland Data Point 30
looking south.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
119

Date:
8/5/2022

Description:
Wetland Data Point 30
looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
120

Date:
8/5/2022

Description:
Wetland Data Point 30
water in soil hole.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
121

Date:
8/5/2022

Description:
Nonwetland Data Point
31 looking north.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
122

Date:
8/5/2022

Description:
Nonwetland Data Point
31 looking east.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
123

Date:
8/5/2022

Description:
Nonwetland Data Point
31 looking south.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
124

Date:
8/5/2022

Description:
Nonwetland Data Point
31 looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
125

Date:
8/8/2022

Description:
Nonwetland Data Point
32 looking north.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
126

Date:
8/8/2022

Description:
Nonwetland Data Point
32 looking east.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
127

Date:
8/8/2022

Description:
Nonwetland Data Point
32 looking south.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
128

Date:
8/8/2022

Description:
Nonwetland Data Point
32 looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
129

Date:
8/11/2022

Description:
Wetland Data Point 33
looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
130

Date:
8/11/2022

Description:
Wetland Data Point 33
looking east.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
131

Date:
8/11/2022

Description:
Nonwetland Data Point
34 looking northwest.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
132

Date:
8/11/2022

Description:
Nonwetland Data Point
34 looking southeast.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
133

Date:
8/11/2022

Description:
Nonwetland Data Point
35 looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
134

Date:
8/11/2022

Description:
Nonwetland Data Point
35 looking east.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
135

Date:
8/15/2022

Description:
Wetland Data Point 36
looking east.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
136

Date:
8/15/2022

Description:
Wetland Data Point 36
looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
137

Date:
8/15/2022

Description:
Wetland Data Point 37
looking northwest.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
138

Date:
8/15/2022

Description:
Wetland Data Point 37
looking southeast.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
139

Date:
8/31/2022

Description:
Wetland Data Point 38
looking north.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
140

Date:
8/31/2022

Description:
Wetland Data Point 38
looking east.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
141

Date:
8/31/2022

Description:
Wetland Data Point 38
looking south.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
142

Date:
8/31/2022

Description:
Wetland Data Point 38
looking west.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
143

Date:
8/31/2022

Description:
Wetland Data Point 38
water in soil hole.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
144

Date:
8/15/2022

Description:
Representative
photograph of man-
made potential Other
Waters of the U.S.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
145

Date:
8/15/2022

Description:
Representative
photograph of man-
made potential Other
Waters of the U.S.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
146

Date:
7/27/2022

Description:
Other Waters of the U.S
4 looking northwest.



Site: HCPHC Port Bienville Site I

Location:
Hancock County, MS

Photo No:
147

Date:
8/2/2022

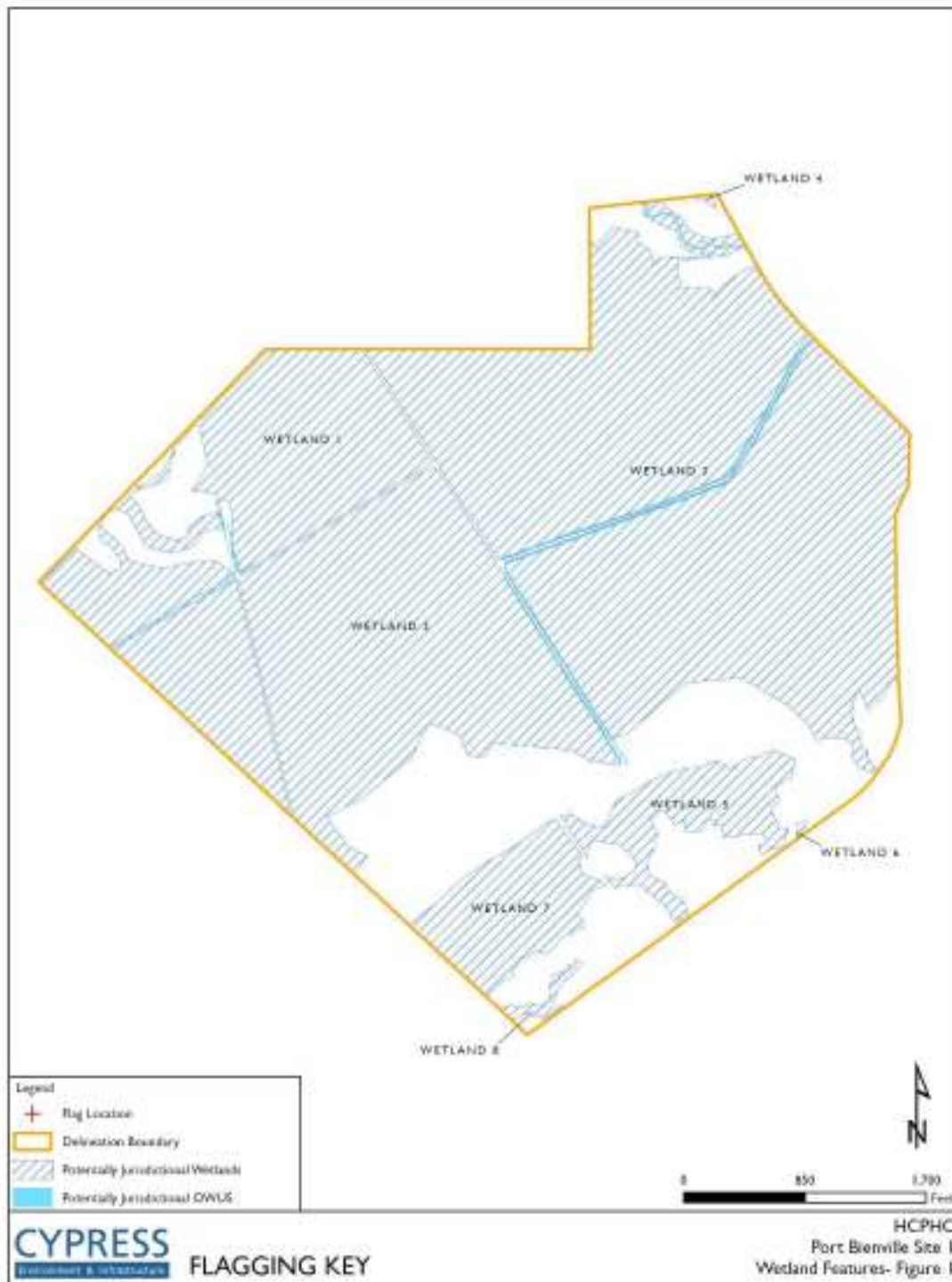
Description:
Other Waters of the
U.S. 4 looking southeast.



Appendix D: Flagging Key

I. Flagging Key

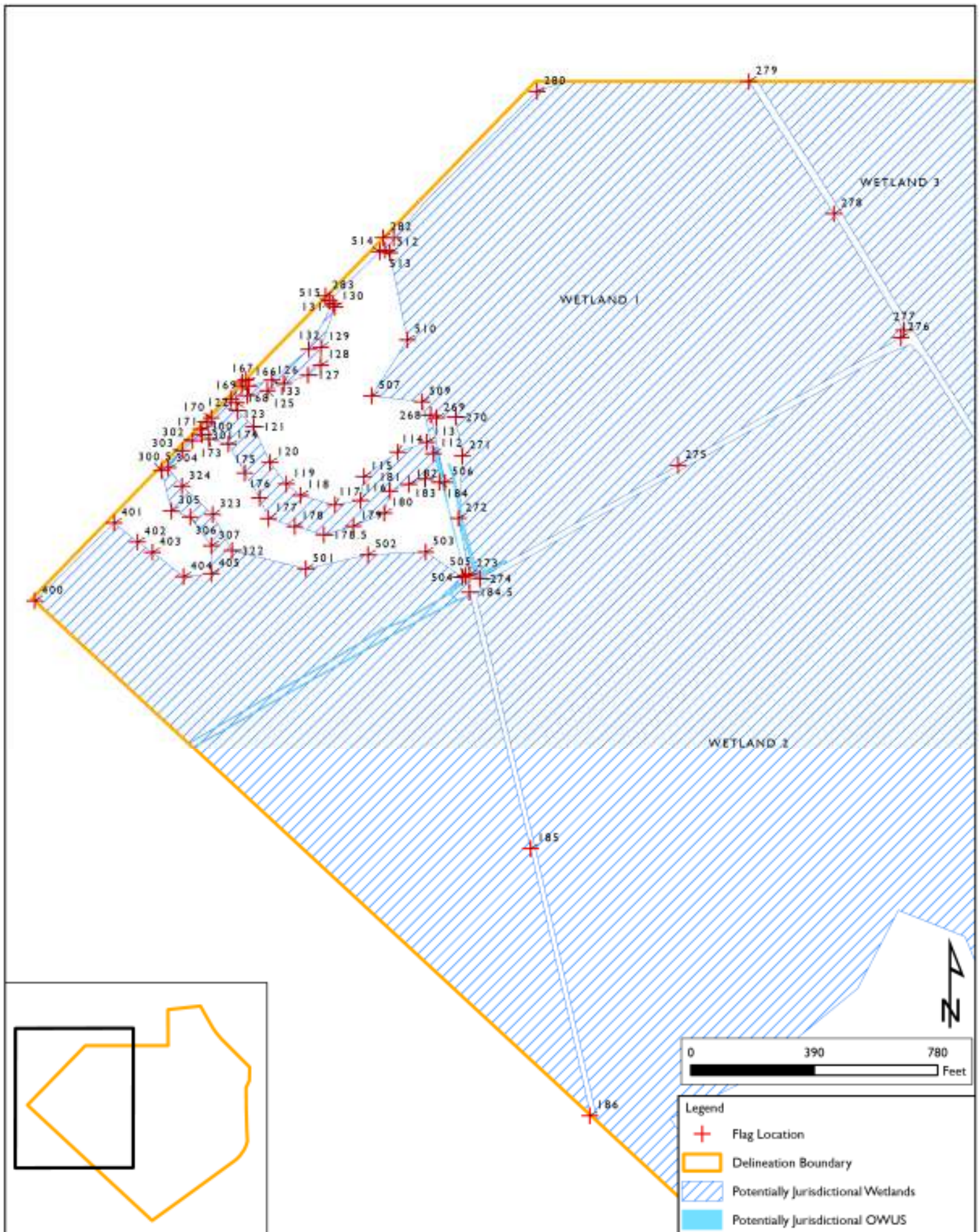
Since the majority of the site is wetlands, the flagging sequence along the boundaries of wetland features is described. Figure I shows each wetland feature labeled with a unique identifier. The individual flag locations are summarized in Table I.

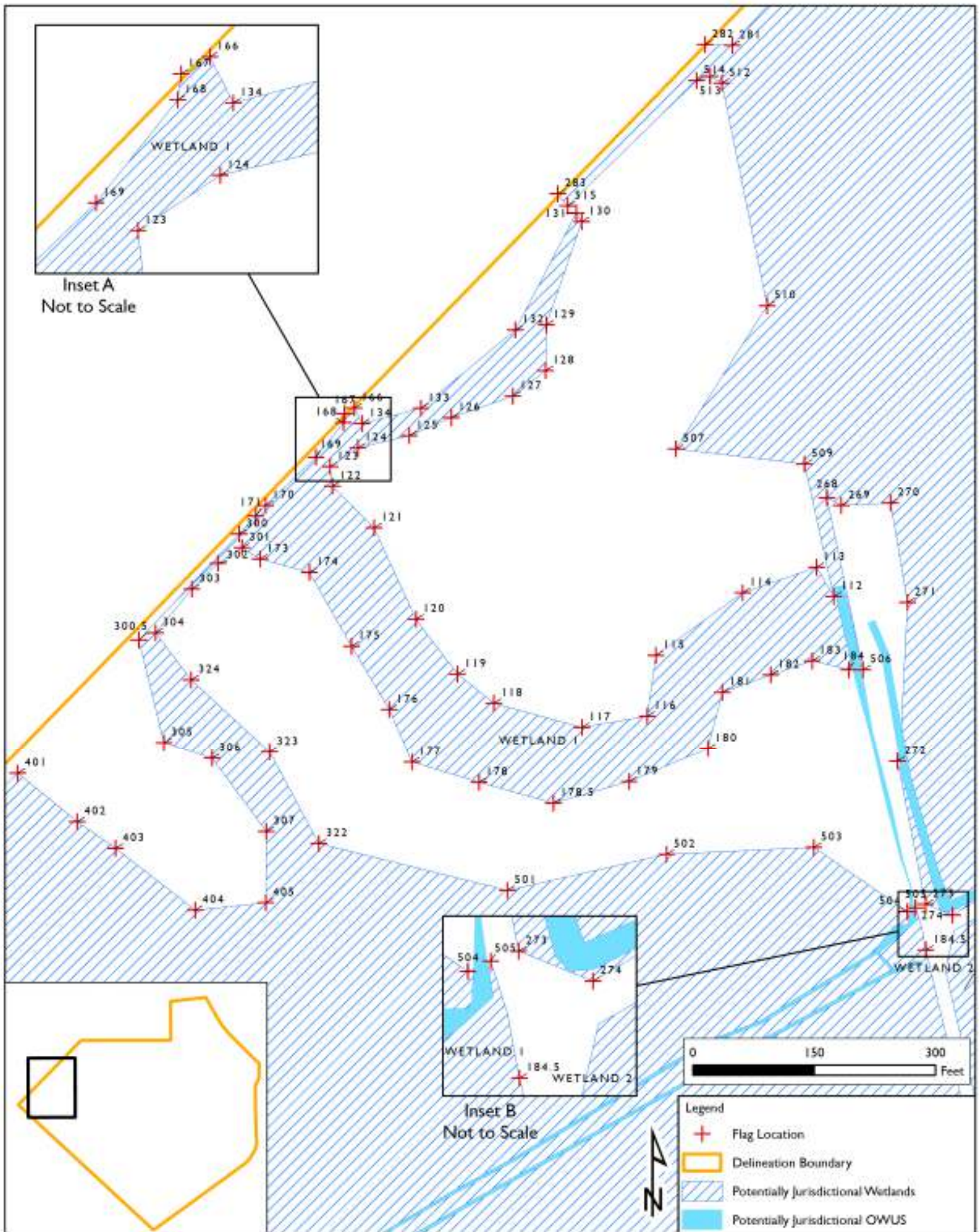


1.1 Wetland Feature I

Wetland I is located on the northwest corner of the site and is shown in Figures 2a & 2b. The following is a description of the flagging sequence for this feature.

- Wetland feature I is defined by flags 184.5-186 (descending order), 184.5 connects to 505, 501-505 (descending order), 501 connects to 322, 322-324, 324 connects to 304, 301-304 (descending order), 301 connects to 173, 173-184, 184 connects to 506, 506 connects to 268, 268-282, 282 connects to 283 to the west along the northwest site boundary. Flag 283 connects to 515, 510-515 (descending order), 510 connects to 507, 507 connects to 509, 509 connects to 112, 112-134, 134 connects to 166, 166-171, 171 connects to 300, 300 connects to 300.5, 300.5 connects to 305, 305-307, 307 connects to 405, 400-405 (descending order), 400 connects to 186 along the southwest site boundary. Flags 300.5 and 400 were mapped in GIS.

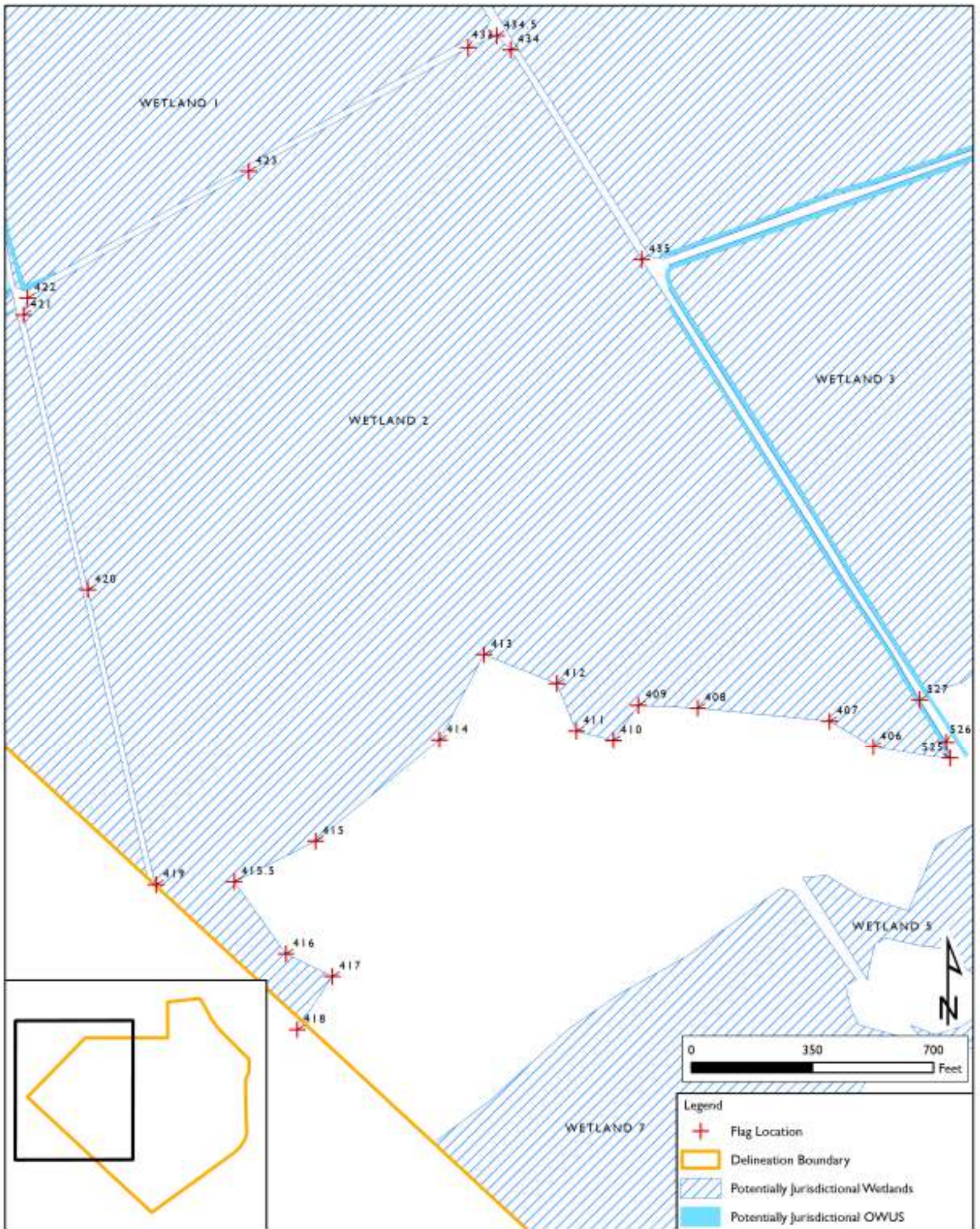




1.2 Wetland Feature 2

Wetland Feature 2 is located at the center of the site and is shown in Figure 3. The following is a description of the flagging sequence for this feature.

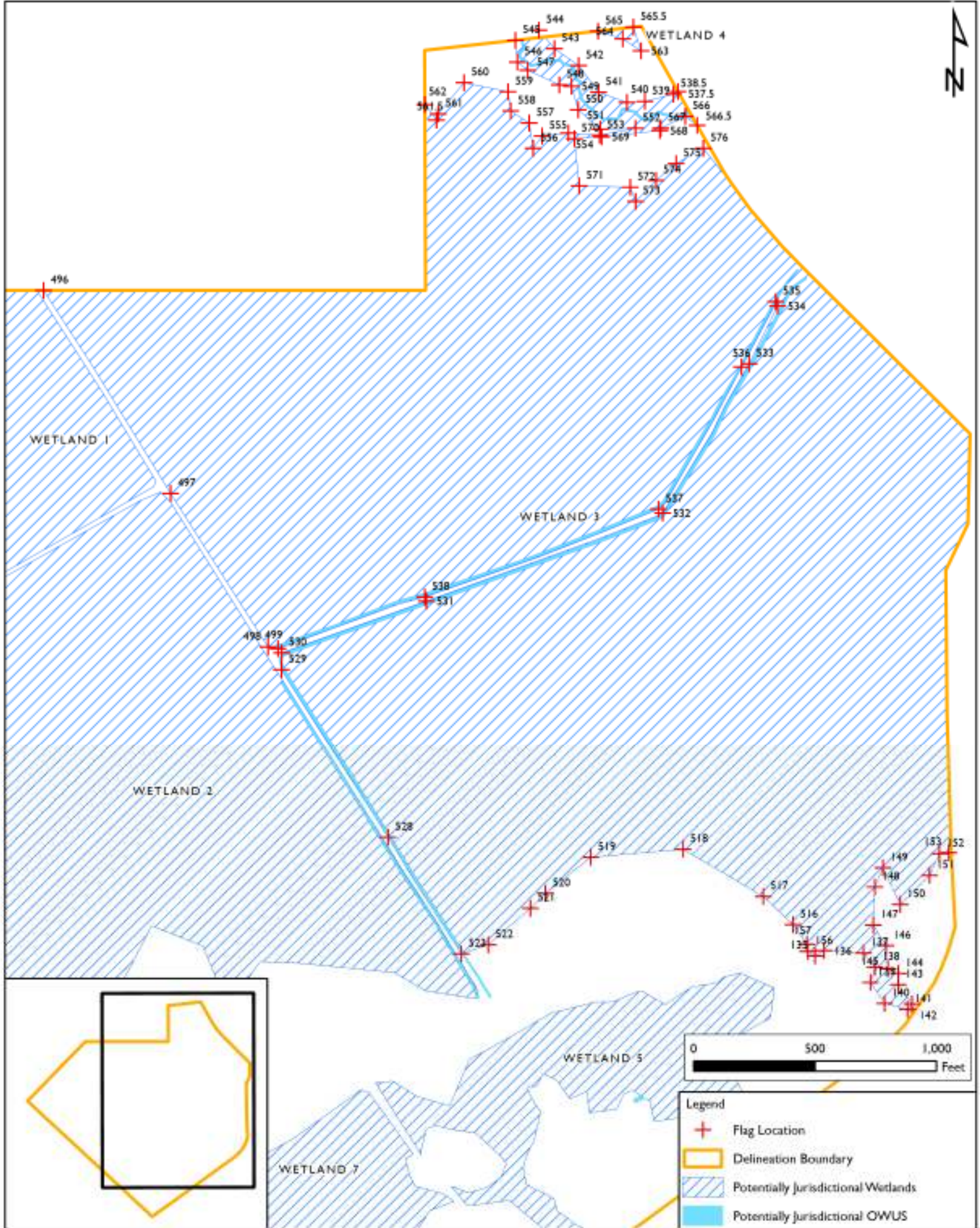
- Wetland feature 2 is defined by flags 406-423, 423 connects to 433, 433-435, 435 connects to 527, 525-527 (descending order). Flag 434.5 was mapped in GIS.

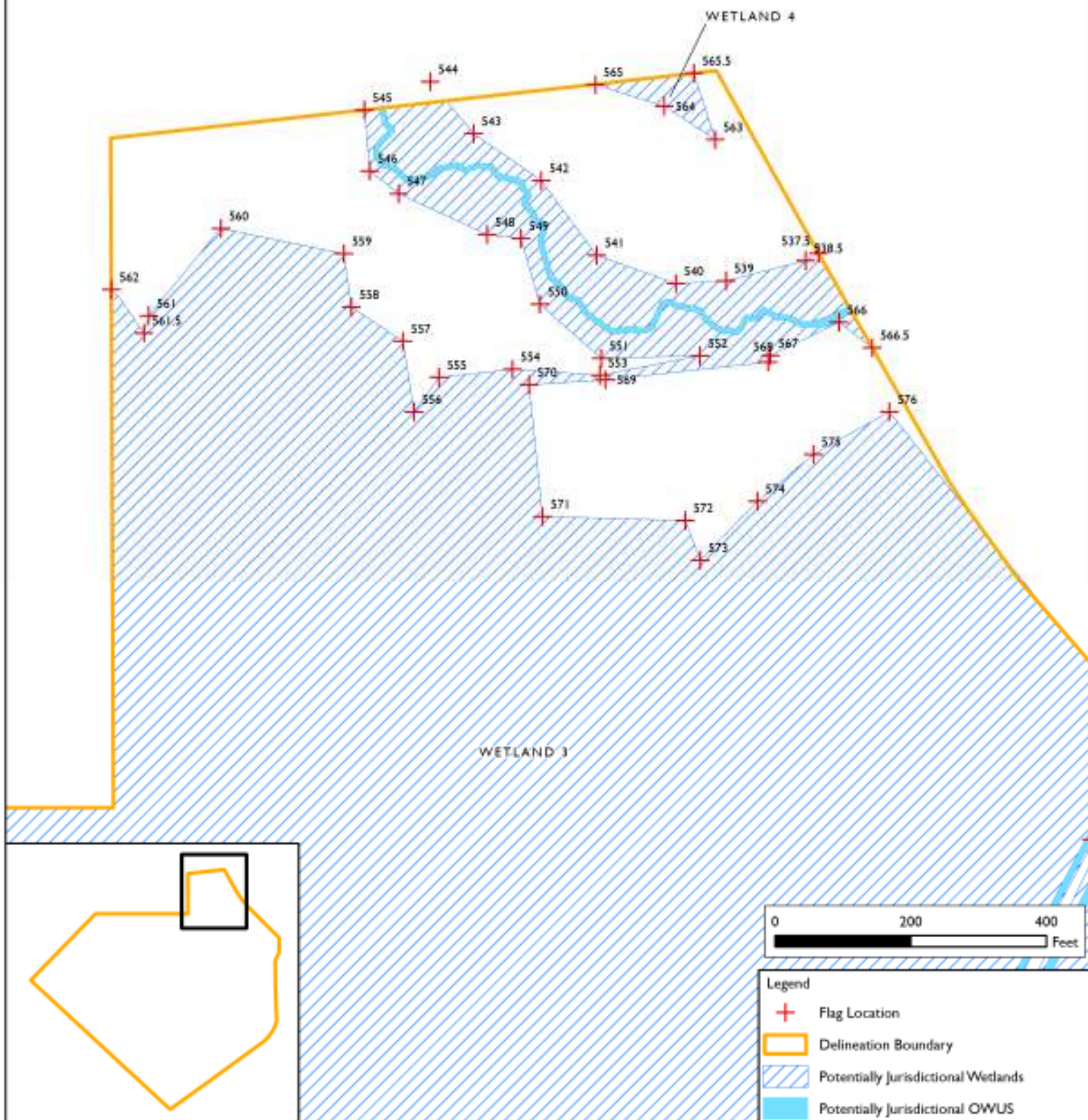


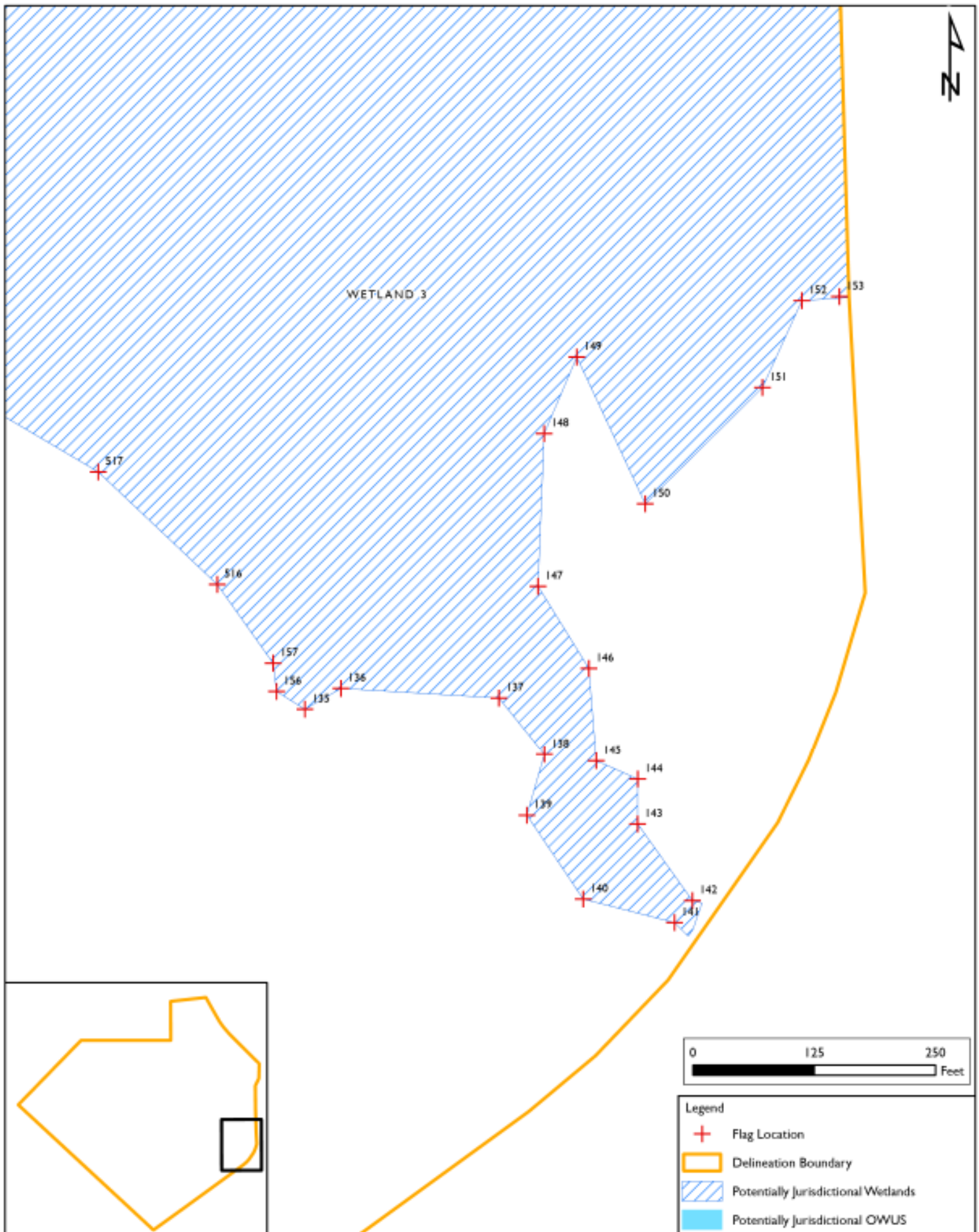
1.3 Wetland Features 3 & 4

Wetland Features 3 & 4 are located at the east side of the site and are shown in Figures 4a-4c. The following is a description of the flagging sequence for these features.

- Wetland feature 3 is defined by flags 496-499, 499 connects to 538, 536-538 (descending order), 536 connects to 535, 528-535 (descending order), 528 connects to 523, 516-523 (descending order), 516 connects to 157, 157 connects to 156, 156 connects to 135, 135-153, 153 connects to 576 to the north along the east site boundary, 566-576 (descending order), 566 connects to 566.5, 566.5 connects to 537.5 to the north along the east site boundary, 537.5 connects to 538.5, 538.5-562, 562 connects to 496 to the west along the north site boundary. Flag 544 is offsite. Flags 537.5 and 566.5 were mapped in GIS.
- Wetland feature 4 is defined by flags 563-565.5 encircling the feature. Flag 565.5 was mapped in GIS.



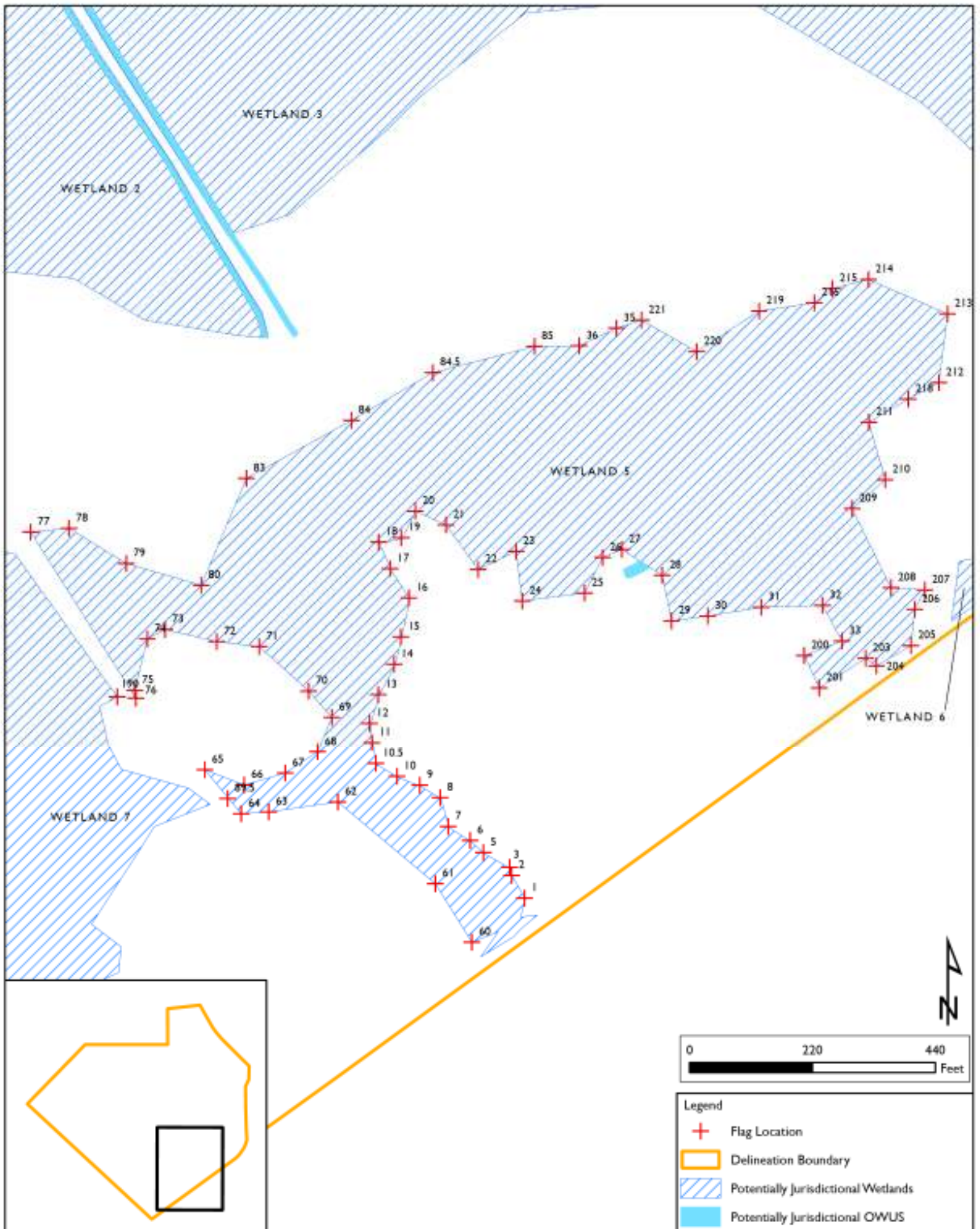




1.4 Wetland Feature 5

Wetland Feature 5 is located on the south side of the site and is shown in Figure 5. The following is a description of the flagging sequence for this feature.

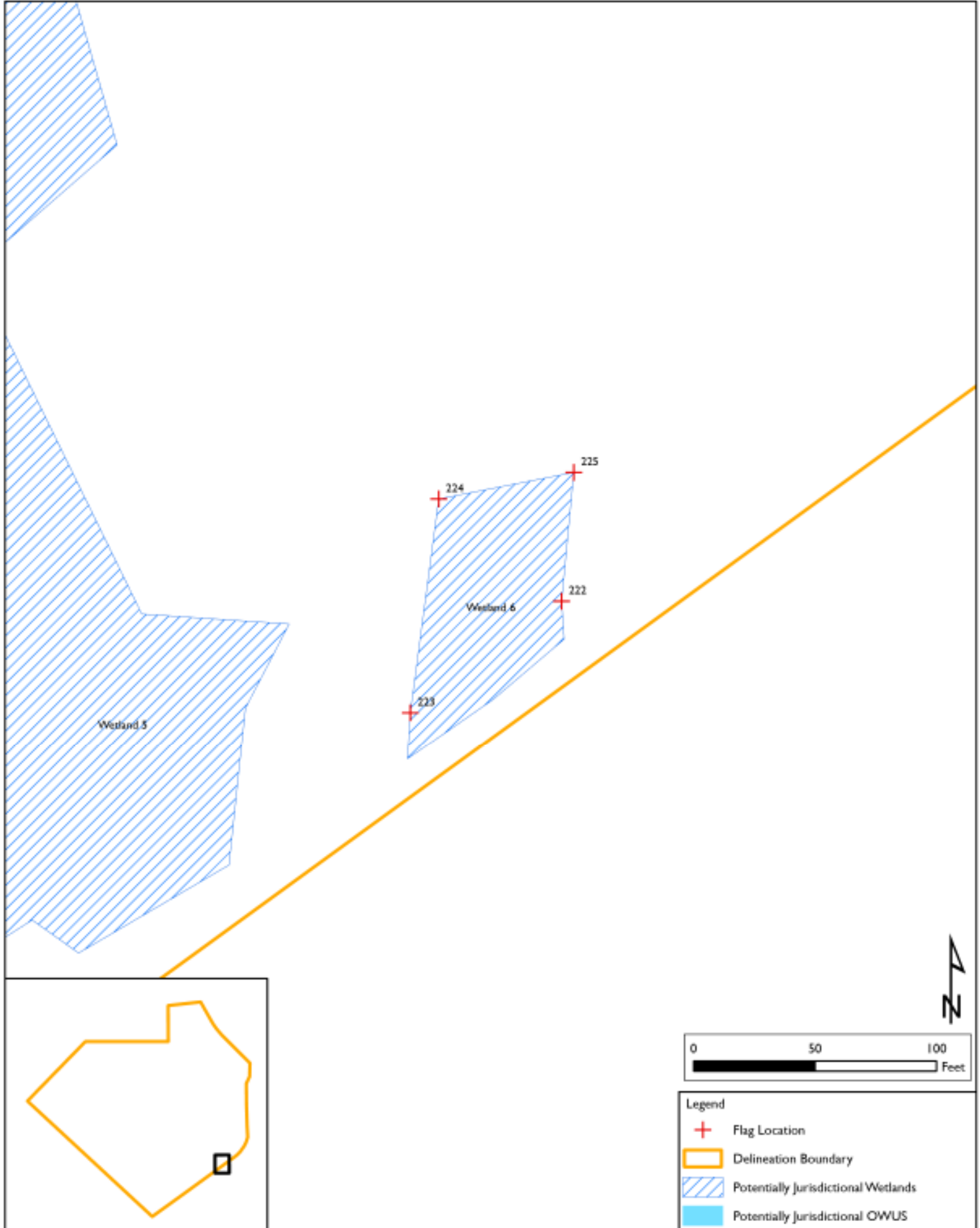
- Wetland feature 5 is defined by flags 1-33, 33 connects to 200, then 200-211, 211 connects to 218, 218 connects to 212, 212-16, 216 connects to 219, 219-221, 221 connects to 35, 35 connects to 36, 36 connects to 85, 85-83 (descending order), 83 connects to 80, 65-80 (descending order), and 65 connects to 89.5.



I.5 Wetland Feature 6

Wetland Feature 6 is located on the southeast side of the site and is shown in Figure 6. The following is a description of the flagging sequence for these features.

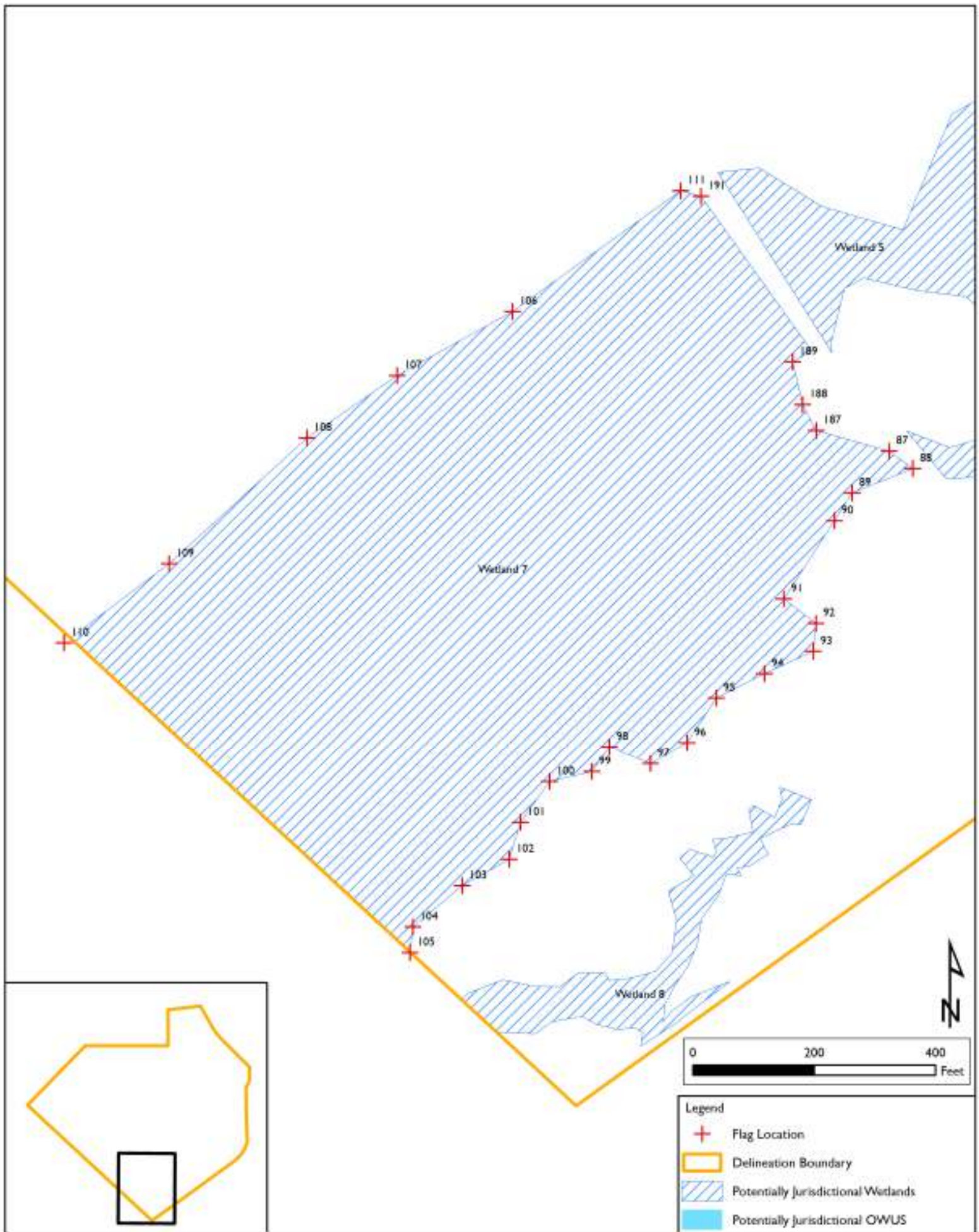
- Wetland feature 6 is defined by flags 222-225 encircling this feature.



1.6 Wetland Feature 7

Wetland Feature 7 is located on the southwest side of the site and is shown in Figure 7. The following is a description of the flagging sequence for this feature.

- Wetland feature 7 is defined by flags 87-105, 105 connects to 110 to the north along the west site boundary, 106-110 (descending order), 106 connects to 111, 111 connects to 191, 191-188 (descending order). Flags 258 and 259 were offsite.



1.7 Wetland Feature 8

Wetland Feature 8 is located near the southwest corner of the site and is shown in Figure 8. The following is a description of the flagging sequence for this feature.

- Wetland feature 8 is defined by flags 158-165, 165 connects to 238, 238-267, 267 connects to 226, 226-237 encircling the feature.

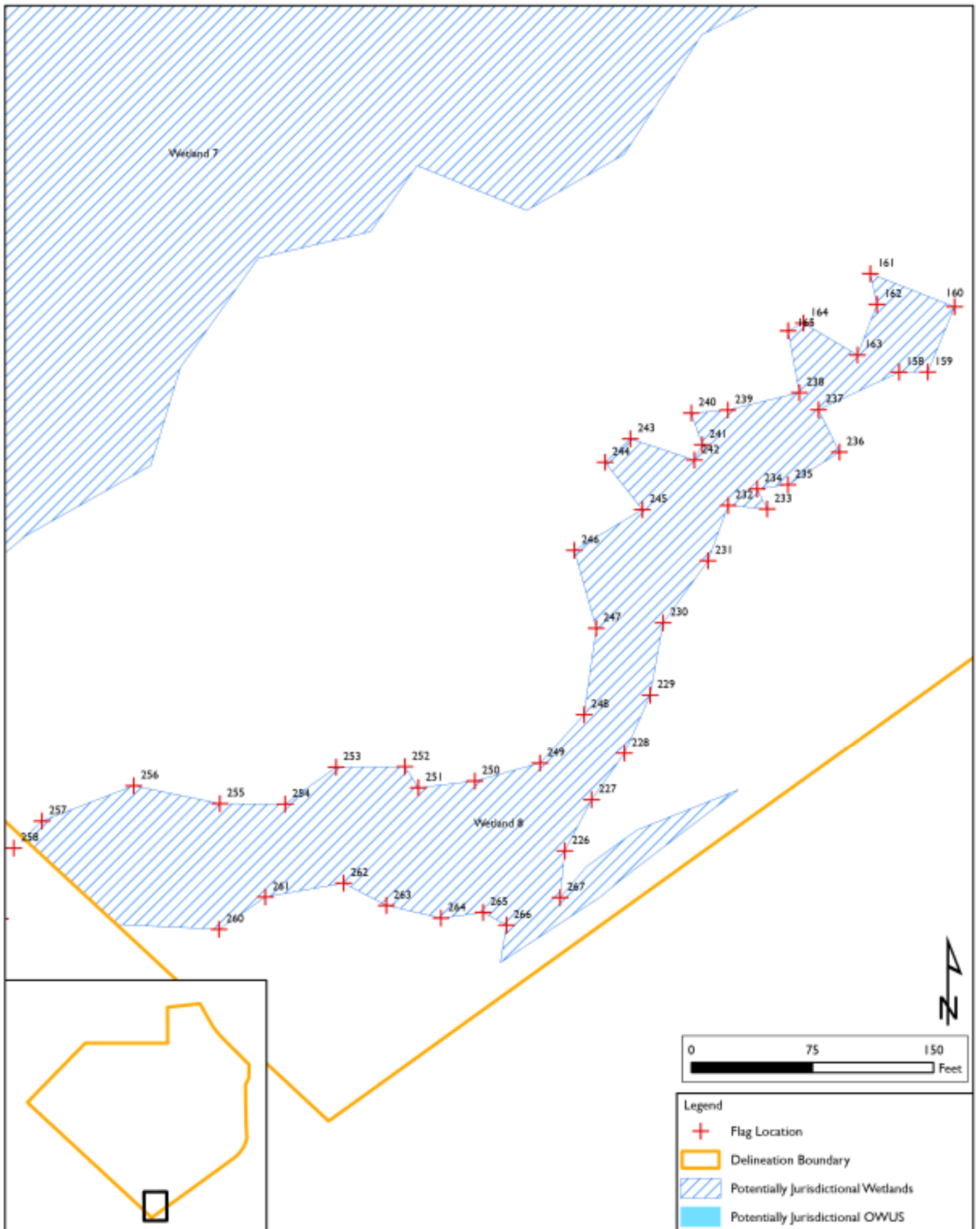


Table 1. Flag Number, Wetland Feature & Location Coordinates

Flag Number	Feature Label	Latitude	Longitude
1	Wetland 5	30.227703°	-89.542782°
2	Wetland 5	30.227814°	-89.542855°
3	Wetland 5	30.227854°	-89.542867°
5	Wetland 5	30.227926°	-89.543016°
6	Wetland 5	30.227986°	-89.543092°
7	Wetland 5	30.228053°	-89.543216°
8	Wetland 5	30.228195°	-89.543263°
9	Wetland 5	30.228256°	-89.543379°
10	Wetland 5	30.228299°	-89.543508°
10.5	Wetland 5	30.228362°	-89.543629°
11	Wetland 5	30.228466°	-89.543652°
12	Wetland 5	30.228561°	-89.543666°
13	Wetland 5	30.228704°	-89.543618°
14	Wetland 5	30.228853°	-89.543529°
15	Wetland 5	30.228988°	-89.543492°
16	Wetland 5	30.229180°	-89.543447°
17	Wetland 5	30.229323°	-89.543555°
18	Wetland 5	30.229454°	-89.543621°
19	Wetland 5	30.229476°	-89.543493°
20	Wetland 5	30.229607°	-89.543413°
21	Wetland 5	30.229540°	-89.543240°
22	Wetland 5	30.229322°	-89.543056°
23	Wetland 5	30.229412°	-89.542842°
24	Wetland 5	30.229169°	-89.542804°
25	Wetland 5	30.229209°	-89.542452°
26	Wetland 5	30.229385°	-89.542351°
27	Wetland 5	30.229425°	-89.542242°
28	Wetland 5	30.229299°	-89.542012°
29	Wetland 5	30.229075°	-89.541958°
30	Wetland 5	30.229100°	-89.541752°
31	Wetland 5	30.229145°	-89.541450°
32	Wetland 5	30.229156°	-89.541103°
33	Wetland 5	30.228981°	-89.540991°

Flag Number	Feature Label	Latitude	Longitude
35	Wetland 5	30.230514°	-89.542280°
36	Wetland 5	30.230426°	-89.542491°
60	Wetland 5	30.227485°	-89.543078°
61	Wetland 5	30.227772°	-89.543288°
62	Wetland 5	30.228171°	-89.543843°
63	Wetland 5	30.228120°	-89.544234°
64	Wetland 5	30.228110°	-89.544390°
65	Wetland 5	30.228325°	-89.544598°
66	Wetland 5	30.228252°	-89.544375°
67	Wetland 5	30.228312°	-89.544142°
68	Wetland 5	30.228418°	-89.543959°
69	Wetland 5	30.228590°	-89.543880°
70	Wetland 5	30.228718°	-89.544012°
71	Wetland 5	30.228936°	-89.544294°
72	Wetland 5	30.228959°	-89.544535°
73	Wetland 5	30.229017°	-89.544829°
74	Wetland 5	30.228970°	-89.544929°
75	Wetland 5	30.228717°	-89.544998°
76	Wetland 5	30.228678°	-89.544991°
77	Wetland 5	30.229492°	-89.545594°
78	Wetland 5	30.229512°	-89.545377°
79	Wetland 5	30.229341°	-89.545050°
80	Wetland 5	30.229236°	-89.544625°
83	Wetland 5	30.229763°	-89.544372°
84	Wetland 5	30.230051°	-89.543779°
84.5	Wetland 5	30.230289°	-89.543319°
85	Wetland 5	30.230421°	-89.542744°
87	Wetland 7	30.228234°	-89.544690°
88	Wetland 7	30.228155°	-89.544566°
89	Wetland 7	30.228044°	-89.544883°
89.5	Wetland 5	30.228184°	-89.544468°
90	Wetland 7	30.227916°	-89.544974°
91	Wetland 7	30.227561°	-89.545235°
92	Wetland 7	30.227451°	-89.545067°
93	Wetland 7	30.227325°	-89.545079°

Flag Number	Feature Label	Latitude	Longitude
94	Wetland 7	30.227222°	-89.545334°
95	Wetland 7	30.227111°	-89.545584°
96	Wetland 7	30.226906°	-89.545735°
97	Wetland 7	30.226809°	-89.545926°
98	Wetland 7	30.226885°	-89.546141°
99	Wetland 7	30.226772°	-89.546232°
100	Wetland 7	30.226725°	-89.546452°
101	Wetland 7	30.226539°	-89.546603°
102	Wetland 7	30.226371°	-89.546660°
103	Wetland 7	30.226250°	-89.546905°
104	Wetland 7	30.226062°	-89.547161°
105	Wetland 7	30.225945°	-89.547175°
106	Wetland 7	30.228855°	-89.546661°
107	Wetland 7	30.228562°	-89.547261°
108	Wetland 7	30.228277°	-89.547730°
109	Wetland 7	30.227704°	-89.548446°
110	Wetland 7	30.227342°	-89.548992°
111	Wetland 7	30.229407°	-89.545787°
112	Wetland 1	30.235200°	-89.553208°
113	Wetland 1	30.235299°	-89.553276°
114	Wetland 1	30.235211°	-89.553565°
115	Wetland 1	30.234996°	-89.553903°
116	Wetland 1	30.234789°	-89.553936°
117	Wetland 1	30.234750°	-89.554191°
118	Wetland 1	30.234830°	-89.554536°
119	Wetland 1	30.234928°	-89.554680°
120	Wetland 1	30.235114°	-89.554844°
121	Wetland 1	30.235423°	-89.555010°
122	Wetland 1	30.235564°	-89.555175°
123	Wetland 1	30.235631°	-89.555184°
124	Wetland 1	30.235694°	-89.555076°
125	Wetland 1	30.235737°	-89.554874°
126	Wetland 1	30.235799°	-89.554710°
127	Wetland 1	30.235874°	-89.554470°
128	Wetland 1	30.235961°	-89.554342°

Flag Number	Feature Label	Latitude	Longitude
129	Wetland 1	30.236117°	-89.554340°
130	Wetland 1	30.236468°	-89.554204°
131	Wetland 1	30.236497°	-89.554226°
132	Wetland 1	30.236099°	-89.554462°
133	Wetland 1	30.235831°	-89.554830°
134	Wetland 1	30.235777°	-89.555059°
135	Wetland 3	30.230961°	-89.539875°
136	Wetland 3	30.231021°	-89.539758°
137	Wetland 3	30.230996°	-89.539242°
138	Wetland 3	30.230837°	-89.539092°
139	Wetland 3	30.230663°	-89.539148°
140	Wetland 3	30.230427°	-89.538963°
141	Wetland 3	30.230362°	-89.538664°
142	Wetland 3	30.230424°	-89.538607°
143	Wetland 3	30.230640°	-89.538787°
144	Wetland 3	30.230768°	-89.538787°
145	Wetland 3	30.230819°	-89.538923°
146	Wetland 3	30.231082°	-89.538949°
147	Wetland 3	30.231313°	-89.539117°
148	Wetland 3	30.231746°	-89.539100°
149	Wetland 3	30.231963°	-89.538995°
150	Wetland 3	30.231549°	-89.538769°
151	Wetland 3	30.231880°	-89.538388°
152	Wetland 3	30.232127°	-89.538261°
153	Wetland 3	30.232139°	-89.538139°
156	Wetland 3	30.231011°	-89.539968°
157	Wetland 3	30.231091°	-89.539980°
158	Wetland 8	30.226538°	-89.545193°
159	Wetland 8	30.226538°	-89.545137°
160	Wetland 8	30.226650°	-89.545085°
161	Wetland 8	30.226705°	-89.545250°
162	Wetland 8	30.226653°	-89.545237°
163	Wetland 8	30.226567°	-89.545275°
164	Wetland 8	30.226620°	-89.545381°
165	Wetland 8	30.226607°	-89.545411°

Flag Number	Feature Label	Latitude	Longitude
166	Wetland I	30.235830°	-89.555090°
167	Wetland I	30.235810°	-89.555128°
168	Wetland I	30.235780°	-89.555132°
169	Wetland I	30.235662°	-89.555239°
170	Wetland I	30.235497°	-89.555435°
171	Wetland I	30.235461°	-89.555473°
173	Wetland I	30.235315°	-89.555456°
174	Wetland I	30.235271°	-89.555262°
175	Wetland I	30.235020°	-89.555096°
176	Wetland I	30.234806°	-89.554946°
177	Wetland I	30.234627°	-89.554856°
178	Wetland I	30.234559°	-89.554593°
178.5	Wetland I	30.234489°	-89.554301°
179	Wetland I	30.234565°	-89.554005°
180	Wetland I	30.234680°	-89.553697°
181	Wetland I	30.234872°	-89.553642°
182	Wetland I	30.234932°	-89.553453°
183	Wetland I	30.234981°	-89.553291°
184	Wetland I	30.234952°	-89.553147°
184.5	Wetland I	30.233998°	-89.552839°
185	Wetland I	30.231770°	-89.552211°
186	Wetland I	30.229452°	-89.551601°
187	Wetland 7	30.228325°	-89.545071°
188	Wetland 7	30.228442°	-89.545143°
189	Wetland 7	30.228636°	-89.545197°
190	Wetland 5	30.228685°	-89.545097°
191	Wetland 7	30.229383°	-89.545681°
200	Wetland 5	30.228909°	-89.541205°
201	Wetland 5	30.228750°	-89.541118°
203	Wetland 5	30.228897°	-89.540856°
204	Wetland 5	30.228860°	-89.540795°
205	Wetland 5	30.228961°	-89.540599°
206	Wetland 5	30.229139°	-89.540579°
207	Wetland 5	30.229235°	-89.540523°
208	Wetland 5	30.229245°	-89.540715°

Flag Number	Feature Label	Latitude	Longitude
209	Wetland 5	30.229633°	-89.540938°
210	Wetland 5	30.229776°	-89.540751°
211	Wetland 5	30.230058°	-89.540846°
212	Wetland 5	30.230255°	-89.540451°
213	Wetland 5	30.230594°	-89.540404°
214	Wetland 5	30.230761°	-89.540854°
215	Wetland 5	30.230715°	-89.541058°
216	Wetland 5	30.230644°	-89.541159°
218	Wetland 5	30.230174°	-89.540624°
219	Wetland 5	30.230602°	-89.541472°
220	Wetland 5	30.230401°	-89.541825°
221	Wetland 5	30.230554°	-89.542138°
222	Wetland 6	30.229262°	-89.540168°
223	Wetland 6	30.229135°	-89.540364°
224	Wetland 6	30.229377°	-89.540329°
225	Wetland 6	30.229408°	-89.540153°
226	Wetland 8	30.225718°	-89.545843°
227	Wetland 8	30.225805°	-89.545791°
228	Wetland 8	30.225885°	-89.545727°
229	Wetland 8	30.225985°	-89.545677°
230	Wetland 8	30.226109°	-89.545653°
231	Wetland 8	30.226215°	-89.545565°
232	Wetland 8	30.226309°	-89.545527°
233	Wetland 8	30.226303°	-89.545450°
234	Wetland 8	30.226338°	-89.545470°
235	Wetland 8	30.226345°	-89.545410°
236	Wetland 8	30.226401°	-89.545309°
237	Wetland 8	30.226473°	-89.545351°
238	Wetland 8	30.226502°	-89.545388°
239	Wetland 8	30.226472°	-89.545529°
240	Wetland 8	30.226466°	-89.545600°
241	Wetland 8	30.226412°	-89.545578°
242	Wetland 8	30.226386°	-89.545594°
243	Wetland 8	30.226422°	-89.545719°
244	Wetland 8	30.226381°	-89.545769°

Flag Number	Feature Label	Latitude	Longitude
245	Wetland 8	30.226301°	-89.545695°
246	Wetland 8	30.226231°	-89.545828°
247	Wetland 8	30.226099°	-89.545784°
248	Wetland 8	30.225951°	-89.545807°
249	Wetland 8	30.225867°	-89.545893°
250	Wetland 8	30.225836°	-89.546020
251	Wetland 8	30.225824°	-89.546131°
252	Wetland 8	30.225860°	-89.546158°
253	Wetland 8	30.225858°	-89.546293°
254	Wetland 8	30.225794°	-89.546392°
255	Wetland 8	30.225795°	-89.546520°
256	Wetland 8	30.225824°	-89.546690°
257	Wetland 8	30.225763°	-89.546869°
258	Wetland 8	30.225717°	-89.546924°
259	Wetland 8	30.225596°	-89.546950°
260	Wetland 8	30.225581°	-89.546521°
261	Wetland 8	30.225636°	-89.546430°
262	Wetland 8	30.225661°	-89.546277°
263	Wetland 8	30.225623°	-89.546192°
264	Wetland 8	30.225602°	-89.546085°
265	Wetland 8	30.225612°	-89.546003°
266	Wetland 8	30.225591°	-89.545956°
267	Wetland 8	30.225638°	-89.545852°
268	Wetland I	30.235535°	-89.553237°
269	Wetland I	30.235510°	-89.553181°
270	Wetland I	30.235519°	-89.552988°
271	Wetland I	30.235181°	-89.552919°
272	Wetland I	30.234640°	-89.552955°
273	Wetland I	30.234154°	-89.552841°
274	Wetland I	30.234118°	-89.552735°
275	Wetland I	30.235111°	-89.550759°
276	Wetland I	30.236233°	-89.548538°
277	Wetland I	30.236297°	-89.548507°
278	Wetland I	30.237305°	-89.549216°
279	Wetland I	30.238449°	-89.550076°

Flag Number	Feature Label	Latitude	Longitude
280	Wetland 1	30.238349°	-89.552195°
281	Wetland 1	30.237070°	-89.553619°
282	Wetland 1	30.237073°	-89.553726°
283	Wetland 1	30.236563°	-89.554299°
300	Wetland 1	30.235400°	-89.555538°
300.5	Wetland 1	30.235037°	-89.555928°
301	Wetland 1	30.235353°	-89.555527°
302	Wetland 1	30.235299°	-89.555620°
303	Wetland 1	30.235212°	-89.555722°
304	Wetland 1	30.235062°	-89.555863°
305	Wetland 1	30.234688°	-89.555827°
306	Wetland 1	30.234636°	-89.555639°
307	Wetland 1	30.234387°	-89.555425°
322	Wetland 1	30.234347°	-89.555218°
323	Wetland 1	30.234659°	-89.555414°
324	Wetland 1	30.234903°	-89.555723°
400	Wetland 1	30.233899°	-89.557190°
401	Wetland 1	30.234580°	-89.556399°
402	Wetland 1	30.234416°	-89.556165°
403	Wetland 1	30.234327°	-89.556014°
404	Wetland 1	30.234118°	-89.555701°
405	Wetland 1	30.234145°	-89.555424°
406	Wetland 2	30.230539°	-89.544955°
407	Wetland 2	30.230741°	-89.545358°
408	Wetland 2	30.230840°	-89.546566°
409	Wetland 2	30.230859°	-89.547110°
410	Wetland 2	30.230578°	-89.547336°
411	Wetland 2	30.230650°	-89.547676°
412	Wetland 2	30.231028°	-89.547857°
413	Wetland 2	30.231255°	-89.548527°
414	Wetland 2	30.230574°	-89.548928°
415	Wetland 2	30.229758°	-89.550057°
415.5	Wetland 2	30.229432°	-89.550799°
416	Wetland 2	30.228861°	-89.550322°
417	Wetland 2	30.228684°	-89.549897°

Flag Number	Feature Label	Latitude	Longitude
418	Wetland 2	30.228258°	-89.550215°
419	Wetland 2	30.229405°	-89.551515°
420	Wetland 2	30.231750°	-89.552158°
421	Wetland 2	30.233931°	-89.552762°
422	Wetland 2	30.234065°	-89.552727°
423	Wetland 2	30.235084°	-89.550708°
433	Wetland 2	30.236078°	-89.548706°
434	Wetland 2	30.236063°	-89.548316°
434.5	Wetland 2	30.236174°	-89.548445°
435	Wetland 2	30.234403°	-89.547105°
496	Wetland 3	30.238448°	-89.549989°
497	Wetland 3	30.236159°	-89.548315°
498	Wetland 3	30.234427°	-89.547032°
499	Wetland 3	30.234409°	-89.546902°
501	Wetland 1	30.234192°	-89.554479°
502	Wetland 1	30.234318°	-89.553856°
503	Wetland 1	30.234345°	-89.553280°
504	Wetland 1	30.234129°	-89.552913°
505	Wetland 1	30.234141°	-89.552880°
506	Wetland 1	30.234952°	-89.553092°
507	Wetland 1	30.235698°	-89.553830°
509	Wetland 1	30.235649°	-89.553326°
510	Wetland 1	30.236186°	-89.553476°
512	Wetland 1	30.236941°	-89.553659°
513	Wetland 1	30.236965°	-89.553705°
514	Wetland 1	30.236950°	-89.553758°
515	Wetland 1	30.236521°	-89.554260°
516	Wetland 3	30.231313°	-89.540164°
517	Wetland 3	30.231630°	-89.540554°
518	Wetland 3	30.232159°	-89.541603°
519	Wetland 3	30.232062°	-89.542807°
520	Wetland 3	30.231651°	-89.543396°
521	Wetland 3	30.231480°	-89.543589°
522	Wetland 3	30.231063°	-89.544136°
523	Wetland 3	30.230959°	-89.544487°

Flag Number	Feature Label	Latitude	Longitude
525	Wetland 2	30.230452°	-89.544252°
526	Wetland 2	30.230579°	-89.544289°
527	Wetland 2	30.230916°	-89.544534°
528	Wetland 3	30.232275°	-89.545451°
529	Wetland 3	30.234171°	-89.546855°
530	Wetland 3	30.234362°	-89.546853°
531	Wetland 3	30.234958°	-89.544971°
532	Wetland 3	30.235972°	-89.541896°
533	Wetland 3	30.237668°	-89.540782°
534	Wetland 3	30.238325°	-89.540415°
535	Wetland 3	30.238372°	-89.540440°
536	Wetland 3	30.237632°	-89.540882°
537	Wetland 3	30.236016°	-89.541952°
537.5	Wetland 3	30.240745°	-89.541732°
538	Wetland 3	30.235005°	-89.544992°
538.5	Wetland 3	30.240715°	-89.541791°
539	Wetland 3	30.240631°	-89.542162°
540	Wetland 3	30.240619°	-89.542396°
541	Wetland 3	30.240732°	-89.542768°
542	Wetland 3	30.241033°	-89.543028°
543	Wetland 3	30.241222°	-89.543345°
544	Wetland 3	30.241431°	-89.543550°
545	Wetland 3	30.241314°	-89.543856°
546	Wetland 3	30.241067°	-89.543829°
547	Wetland 3	30.240976°	-89.543693°
548	Wetland 3	30.240813°	-89.543280°
549	Wetland 3	30.240797°	-89.543121°
550	Wetland 3	30.240532°	-89.543031°
551	Wetland 3	30.240314°	-89.542743°
552	Wetland 3	30.240327°	-89.542283°
553	Wetland 3	30.240245°	-89.542749°
554	Wetland 3	30.240267°	-89.543157°
555	Wetland 3	30.240232°	-89.543500°
556	Wetland 3	30.240092°	-89.543616°
557	Wetland 3	30.240378°	-89.543669°

Flag Number	Feature Label	Latitude	Longitude
558	Wetland 3	30.240515°	-89.543911°
559	Wetland 3	30.240731°	-89.543948°
560	Wetland 3	30.240831°	-89.544523°
561	Wetland 3	30.240475°	-89.544857°
561.5	Wetland 3	30.240404°	-89.544878°
562	Wetland 3	30.240580°	-89.545032°
563	Wetland 4	30.241203°	-89.542217°
564	Wetland 4	30.241337°	-89.542456°
565	Wetland 4	30.241423°	-89.542778°
565.5	Wetland 4	30.241472°	-89.542318°
566	Wetland 3	30.240466°	-89.541634°
566.5	Wetland 3	30.240364°	-89.541478°
567	Wetland 3	30.240329°	-89.541954°
568	Wetland 3	30.240303°	-89.541964°
569	Wetland 3	30.240227°	-89.542723°
570	Wetland 3	30.240204°	-89.543079°
571	Wetland 3	30.239671°	-89.543012°
572	Wetland 3	30.239658°	-89.542346°
573	Wetland 3	30.239498°	-89.542275°
574	Wetland 3	30.239738°	-89.542009°
575	Wetland 3	30.239930°	-89.541750°
576	Wetland 3	30.240104°	-89.541396°