APPENDIX G WETLAND AND OTHER WATERS ASSESSMENT REPORT

Pearl River Valley Water Supply District Bob Anthony Parkway Relocation Project Environmental Assessment

WETLAND AND OTHER WATERS ASSESSMENT REPORT

Bob Anthony Parkway Relocation

Madison, Hinds, and Rankin Counties, MS Project Number FBLD-6945-00(013)LPA FMS Number 108635-800000

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Executive Summary

The Mississippi Department of Transportation (MDOT) is proposing to replace Spillway Road which is currently located on and adjacent to the Ross Barnett Reservoir dam near Jackson, Mississippi. The proposed road will be constructed on new alignment to the south of the existing roadway for approximately 3.4 miles between Harbor Drive in Ridgeland, MS and North Shore Parkway in Brandon, MS. The project is located in Madison, Hinds, and Rankin Counties (Sections 33, 34 & 35 of Township 7N, Range 2E; Section 1, 2, and 12 of Township 6N Range 2E).

A previous site delineation for the project was conducted by Cypress Environment and Infrastructure from July 11, 2023, through July 13, 2023, and identified 21 wetlands (6.01 acres) and five other waters (2,113 linear feet [LF]). A follow-up site inspection, which is described in this report, identified an additional 13 wetlands (3.60 acres), 4 open waters (7.36 acres), and 4 other waters (784 LF) in the project site. Wetlands were classified as palustrine emergent, palustrine forested, and palustrine unconsolidated bottom. Other waters were classified as perennial, intermittent, and ephemeral. These areas should be considered potentially jurisdictional until concurrence is given by a representative of the U.S. Army Corps of Engineers (USACE).

Two alternatives (Alternative B and Alternative E2) are under consideration for the proposed project. Proposed work for Alternative B would result in **6.68 acres of permanent wetland impacts**, **3.43 acres of permanent open water impacts**, and **2,653 linear feet of permanent impacts to other waters**. Proposed work for Alternative E2 would result in **5.78 acres of permanent wetland impacts**, **6.70 acres of permanent impacts to other waters**, and **2,575 linear feet of permanent impacts to other waters**.

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Acronyms and Abbreviations

CA	Channel Assessment, data point location
CWA	Clean Water Act, Section 404
DP	Data Point
GIS	Geographic Information System
HUC	Hydrologic Unit Code
JD	Jurisdictional Determination
LF	Linear Feet
MARIS	Mississippi Automated Response Information System
MDOT	Mississippi Department of Transportation
NRCS	Natural Resources Conservation Service
OHWM	Ordinary High Water Mark
OW	Other Waters of the U.S.
PEM	Palustrine Emergent
PFO	Palustrine Forested
PSS	Palustrine Scrub-Shrub
RHA	Safe River and Harbors Act, Section 10
ROW	Right-Of-Way
SR	State Route
Sta.	Station Number
USACE	U.S. Army Corps of Engineers
USDA	U.S. Department of Agriculture
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey

Chapter 1. Introduction

The purpose of this report is to identify and describe potentially jurisdictional areas such as wetlands and other waters of the U.S. within the project corridor for the purposes of regulation under Section 404 of the Clean Water Act (CWA) and/or Section 10 of the Safe River and Harbors Act (RHA). A wetland and other water delineation was completed by Cypress Environment and Infrastructure from July 11, 2023, through July 13, 2023. This report describes a supplemental wetland and other water delineation that was conducted by Joe Rujawitz of Garver during a site visit on August 15, 2023, to inspect areas that were excluded during the original delineation. This report facilitates MDOT's efforts to document wetland and other waters boundary determinations for review by regulatory authorities and to avoid or minimize impacts to wetlands and other waters during the design process.

The proposed roadway relocation begins near the intersection of Spillway Road and Harbor Drive in Ridgeland, MS and is located on new alignment for approximately 3.4 miles before rejoining with Spillway Road near its intersection with North Shore Parkway in Brandon, MS (Sections 33, 34 & 35 of Township 7N, Range 2E; Section 1, 2, and 12 of Township 6N Range 2E). See Figures 1-4 for more detailed location information. Work will take place at 9 sites (Figure 3) to construct the road relocation.



Figure 1. State and County Maps.







Figure 3. USGS Topographic Map for Project Area

Chapter 2. Methods

This chapter summarizes the methods used to comply with MDOT, federal, state, and local guidance. Please see Appendix A for further details of methods used in this report.

Prior to initiation of field work, geographic information system (GIS- ArcMap 10.8 and ArcGIS Pro 3.1.2) software was used to compile known hydrologic, geologic, and other relevant information on the study area. Information was gathered from U.S. Fish and Wildlife Service (USFWS) National Wetland Inventory Maps, U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey Maps, U.S. Geological Survey (USGS) Digital Elevation Model, Mississippi Automated Response Information System (MARIS) data, and aerial imagery produced by the 2023 USDA National Agriculture Imagery Program. See Appendix C for maps showing soils, topography, and the wetland inventory. A site delineation for the project was conducted by Cypress Environment and Infrastructure from July 11, 2023, through July 13, 2023. Garver conducted an additional site visit on August 15, 2023, to record relevant data on additional potentially jurisdictional areas for the purposes of CWA permitting.

Wetland determinations were made using observable vegetation, hydrology, and soils in accordance with the routine approach described in the USACE Wetland Delineation Manual (1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (2010). Wetland and upland areas are described in detail on attached regional supplement datasheets. Other waters (OW) are described on OW Field Data Sheet forms found in Attachment B. Wetland boundaries and locations were not professionally surveyed but were located by a hand-held GPS device (Trimble Geo 7x sub-meter unit).

Regional supplement data sheets were completed at each data point (DP) location; however, not all data points represent wetlands. At each data point location, soils, vegetation, and hydrology were described and representative photographs were taken. Areas which met all three hydric criteria are labeled with a "W". Other Water field data sheets were completed for each tributary reach from project boundary to boundary and not for a true channel reach length. Photographs were taken up and down gradient at each OW assessment site.

After field work was completed, data was entered into GIS software, potentially jurisdictional areas were mapped, and areas and lengths were calculated. Preliminary plans were overlaid on maps to calculate impacts to potentially jurisdictional areas.

Chapter 3. Existing Conditions

The previous site delineation conducted by Cypress Environment and Infrastructure identified 21 wetlands (6.01 ac) and 6 other waters (2,488 LF). Based upon the site inspections of the supplemental project area, an additional 13 wetlands (3.60 acres), 4 open waters (7.36 acres), and 4 other waters (784 LF) were identified. All identified features are considered potentially jurisdictional. All potential jurisdictional areas should be considered preliminary prior to confirmation by the USACE Regulatory Branch. Findings are discussed in Tables 1 and 2. The conditions described below are true for the area surveyed by Garver and do not necessarily represent the conditions of the entire project.

Landscape Setting

Undeveloped terrain in the project area is predominantly maintained right-of-way, bottomland forest, and watercourses. The project is located in the Southern Mississippi Valley Loess (134) Major Land Resource Area portion of the South Atlantic and Gulf Slope Cash Crops, Forest, and Livestock Region (LRR P) as described by the Natural Resources Conservation Service. Dominant land uses within the study corridor are undeveloped bottomland forest, maintained right of way, watercourses, and roadways. Appendix C includes Soil Survey Data, Elevation Maps, and Land Use Maps.

Hydrology

The climatic condition in the project area during the August 15, 2023, site visit was considered drier than normal by the USACE Antecedent Precipitation Tool (see Appendix D). The nearest weather station is located at the Jackson International Airport. Weather data for the Starkville area for the month of August 2023 indicated clear weather on the day of the delineation. Major tributaries in the project area exhibited low flow during the delineation and were under the Ordinary High Water Marks (OHWMs).

Vegetation

Plant communities in the project area included wooded riparian areas and forested wetlands dominated by Chinese tallow (*Triadica sebifera*), sugarberry (*Celtis laevigata*), silver maple (*Acer*

saccharinum), bald cypress (*Taxodium distichum*), giant cane (*Arundinaria gigantea*), Indian wood-oats (*Chasmanthium latifolium*), and lizards tail (*Saururus cernuus*). Emergent wetlands within maintained right of way were dominated by fall panic grass (*Panicum dichotomiflorum*), Virginia buttonweed (*Diodia virginiana*), southern cutgrass (*Leersia hexandra*), dotted smartweed (*Persicaria punctata*), broad-lead cattail (*Typha latifolia*), and Vasey's grass (*Paspalum urvillei*). Maintained fields were dominated by prickly lettuce (*Lactuca serriola*), Bahia grass (*Paspalum notatum*), Virginia buttonweed, yellow foxtail (*Setaria punila*), Bermuda grass (*Cynodon dactylon*), and Japanese-clover (*Kummerowia striata*). See Wetland Determination Data Forms in Appendix B for a detailed description of vegetative species within the delineation boundary.

Soils

Soils found in the supplemental project area are mapped as Cascilla-Chenneby association, Cascilla-Calhoun association, and Cascilla-Arkabutla association (frequently flooded). According to USDA NRCS, all soil units are classified as hydric. For more information, see the data sheets in Appendix B and Custom Soil Report in Appendix C.



Figure 4. Location of potentially jurisdictional areas.

Chapter 4. Impacts

The purpose of the proposed project is to relocate Bob Anthony Parkway on new alignment to the south of Ross Barnett Reservoir to mitigate the safety hazards currently present on Spillway Road. Impacts by the project include fill required to construct the roadway and embankment, clearing within the ROW, and shading by the proposed bridge over Pearl River. Impacts to only the likely jurisdictional aquatic features in the supplemental project area delineated by Garver on August 15, 2023, are described below. For complete impacts to all identified aquatic features within the entire project area, including those identified during the delineation conducted by Cypress Environment and Infrastructure, see Table 1 and Table 2 below.

Site 1

Two emergent wetlands (W22 and W23) and one unconsolidated bottom wetland, or pond, (P1) are located within Site 1. The proposed improvements associated with Alternative B will fill 0.04 acre of W22, 0.21 acres of W23, and 2.06 acre of P1 within the right of way. The proposed improvements associated with Alternative E will fill 0.04 acre of W22, 0.21 acres of W23, and 4.52 acre of P1 within the right of way.

Site 2

One pond (P1) extends from Site 1 into Site 2. No further wetland or other water features were identified in Site 2. See Site 1 for a description of impacts to P1.

Site 3

One emergent wetland (W24) and two ponds (P1 and P2) are located in Site 3. The proposed improvements associated with Alternative B will fill 0.54 acre of P2 within the right of way. Alternative B will not impact W24. The proposed improvements associated with Alternative E will fill 0.04 acre of W24 and 1.01 acre of P2 within the right of way. See Site 1 for a description of impacts to P1.

Site 4

Three ponds (P2, P3, and P4), two emergent wetlands (W25 and W26), and one forested wetland (W33) are located in Site 4. W26 is comprised of several fringes of emergent wetland along P4 and does not constitute one continuous wetland. The proposed improvements associated with Alternative B will fill 0.63 acre of P3, 0.02 acre of W25, 0.20 acre of P4, and 0.06 acre of

W26 within the right of way. The proposed improvements associated with Alternative E will fill 0.94 acre of P3, 0.04 acre of W25, 0.23 acre of P4, and 0.08 acre of W26 within the right of way. See Site 3 for a description of impacts to P2 and Site 5 for a description of impacts to W33.

Site 5

One pond (P4), four emergent wetlands (W26, W27, W29, and W34), and five forested wetlands (W28, W30, W31, W32, and W33) are located in Site 5. The proposed improvements associated with either alternative will either shade or clear 0.91 acre of W28, 0.07 acre of W31, 0.09 acre of W32, 0.12 acre of W33, and 0.07 acre of W34 due to the construction of the proposed bridge. W27, W29, and W30 will not be impacted by either alternative. See Site 5 for a description of impacts to P4 and W26.

Two ephemeral streams (OW7 and OW9) and one perennial stream (OW8) are also located in Site 5. Approximately 5 linear feet of OW7, 252 linear feet of OW8, and 56 linear feet of OW9 will be shaded by the construction of the proposed bridge for either alternative.

Site 6

Pearl River (OW10), a traditional navigable water of the U.S., is located in Site 6 and flows south through the project area. The proposed improvements will impact 180 linear feet of OW10 through shading from the proposed bridge for either alternative.

Data Point	Wetland ID#	Site # OR Worksheet #	Latitude	Longitude	Approximate Station Number*	Section- Township- Range	Area from ROW to ROW Alt B / E (ac)	Cowardin Classification	Impact
DP1 ¹	W1	Site 1	32.411467°	-90.088790°	14+05	S34, T7N, R2E	0.03 / 0.03	PEM	0.03 ac filled within ROW for either alternative.
DP2 ¹		Site 1	32.411300°	-90.088610°	14+80	S34, T7N, R2E		Upland	
DP3 ¹	W5	Site 3	32.405347°	-90.079452°	51+37	S34, T7N, R2E	0.38 / 0.18	PFO	0.38 ac filled within ROW for Alternative B; 0.18 ac filled within ROW for Alternative E.
DP4 ¹	W2	Site 2	32.407915°	-90.083433°	35+95	S34, T7N, R2E	0.02 / 0.01	PFO	0.02 ac filled within ROW for Alternative B; 0.01 ac filled within ROW for Alternative E.
DP5 ¹		Site 2	32.407880°	-90.083010°	37+00	S34, T7N, R2E		Upland	
DP6 ¹	W3	Site 2	32.406492°	-90.081256°	44+40	S34, T7N, R2E	0.63 / 0.36	PFO	0.63 ac filled within ROW for Alternative B; 0.36 ac filled within ROW for Alternative E.
DP6 ¹²	W4	Site 2	32.407040°	-90.081986°	41+40	S34, T7N, R2E	0.52 / 0.22	PFO	0.52 ac filled within ROW for Alternative B; 0.22 ac filled within ROW for Alternative E.
DP7 ¹		Site 2	32.406680°	-90.081890°	42+42	S34, T7N, R2E		Upland	
DP8 ¹		Site 3	32.405120°	-90.079520°	51+60	S34, T7N, R2E		Upland	
DP9 ¹		Site 3 & 4	32.402940°	-90.075760°	65+76	S34, T7N, R2E		Upland	
DP10 ¹	W6	Site 4	32.402404°	-90.075018°	68+71	S34, T7N, R2E	0.14 / 0.13	PFO	0.14 ac filled within ROW for Alternative B; 0.13 ac filled within ROW for Alternative E.
DP11 ¹		Site 4	32.402250°	-90.075020°	69+05	S34, T7N, R2E		Upland	
DP12 ¹	W7	Site 4	32.401704°	-90.073898°	73+00	S34, T7N, R2E	0.28 / 0.28	PFO	0.28 ac filled within ROW for either alternative.
DP12 ¹²	W8	Site 4	32.401238°	-90.073201°	75+75	S34, T7N, R2E	0.06 / 0.06	PFO	0.06 ac filled within ROW for either alternative.
DP12 ¹²	W9	Site 4	32.401055°	-90.072615°	77+62	S34, T7N, R2E	0.14 / 0.14	PFO	0.14 ac filled within ROW for either alternative.
DP131		Site 4	32.399950°	-90.071500°	82+80	S2, T6N, R2E		Upland	
DP14 ¹	W10	Site 6	32.395159°	-90.063507°	113+00	S2, T6N, R2E	0.16 / 0.16	PFO	0.16 ac of W10 cleared and/or shaded by bridge construction.
DP15 ¹		Site 6 & 7	32.394730°	-90.062960°	115+25	S2, T6N, R2E		Upland	2
DP16 ¹	W11	Site 6 & 7	32.394262°	-90.062111°	118+35	S2, T6N, R2E	0.19 / 0.19	PFO	0.19 ac of W11 cleared and/or shaded by bridge construction.
DP16 ¹²	W12	Site 7	32.393489°	-90.060904°	123+00	S2, T6N, R2E	0.40 / 0.40	PFO	0.40 ac of W12 cleared and/or shaded by bridge construction.
1	W13	Site 7	32.394094°	-90.061133	121+15	S2, T6N, R2E	0 / 0	PEM	Project will not impact W13.
DP17 ¹	W14	Site 7 & 8	32.392042°	-90.058329°	132+55	S2, T6N, R2E	0.26 / 0.26	PFO	0.26 ac filled within ROW for either alternative.
1	W15	Site 8	32.390261°	-90.056346°	141+35	S2, T6N, R2E	0.04 / 0.04	PFO	0.04 ac filled within ROW for either alternative.
DP18 ¹		Site 7 & 8	32.391560°	-90.058200°	133+90	S2, T6N, R2E		Upland	
DP19 ¹		Site 8	32.390790°	-90.056420°	140+00	S2, T6N, R2E		Upland	
DP20 ¹	W16	Site 8	32.389064°	-90.056346°	148+35	S1, T6N, R2E	0.43 / 0.43	PFO	0.43 ac filled within ROW for either alternative.
DP211		Site 9	32.388060°	-90.052850°	154+70	S1, T6N, R2E		Upland	
DP22 ¹		Site 9	32.388340°	-90.052190°	155+85	S1, T6N, R2E		Upland	
DP23 ¹	W17	Site 9	32.387863°	-90.050944°	160+15	S1, T6N, R2E	0.76 / 0.60	PFO	0.76 ac filled within ROW for Alternative B; 0.60 ac filled within ROW for Alternative E.
1	W18	Site 9	32.388356°	-90.051957°	151+35	S1, T6N, R2E	0.09 / 0.09	PEM	0.09 ac filled within ROW for either alternative.
1	W19	Site 9	32.388074°	-90.052338°	156+00	S1, T6N, R2E	0.45 / 0.43	PFO	0.45 ac filled within ROW for Alternative B; 0.43 ac filled within ROW for Alternative E.
DP24 ¹	W20	Site 9	32.387506°	-90.051243°	159+90	S1, T6N, R2E	0.12 / 0.12	PFO	0.12 ac filled within ROW for either alternative.
DP251		Site 9	32.386570°	-90.049520°	166+10	S1, T6N, R2E		Upland	

 Table 1. Data Point Summary Table

Data Point	Wetland ID#	Site # OR Worksheet #	Latitude	Longitude	Approximate Station Number*	Section- Township- Range	Area from ROW to ROW Alt B / E (ac)	Cowardin Classification	Impact
1	W21	Site 7 & 8	32.389144°	-90.053063°	151+90	S1, T6N, R2E	<0.01 / 0	PEM	Less than 0.01 ac filled within ROW for Alternative B; Alternative E will not impact W21.
GAR- DP 1	W22	Site 1	32.411472°	-90.088769°	14+15	S34, T7N, R2E	0.04 / 0.04	PEM	0.04 ac filled within ROW for either alternative.
GAR- DP 2		Site 1	32.411455°	-90.088761°	14+17	S34, T7N, R2E		Upland	
GAR- DP 3	W23	Site 1	32.411312°	-90.087676°	17+65	S34, T7N, R2E	0.21 / 0.21	PEM	0.21 ac filled within ROW for either alternative.
GAR- DP 4		Site 1	32.411333°	-90.087665°	17+65	S34, T7N, R2E		Upland	
GAR- DP 5	W24	Site 3	32.404996°	-90.077638°	56+65	S34, T7N, R2E	0 / 0.02	PEM	Alternative B will not impact W24; 0.02 ac filled within ROW for Alternative E.
GAR- DP 6		Site 3	32.405035°	-90.077661°	56+50	S34, T7N, R2E		Upland	
GAR- DP 7		Site 4	32.402942°	-90.074501°	68+90	S34, T7N, R2E		Upland	
GAR- DP 8	W25	Site 4	32.402915°	-90.074526°	68+90	S34, T7N, R2E	0.02 / 0.04	PEM	0.02 ac filled within ROW for Alternative B; 0.04 ac filled within ROW for Alternative E.
GAR- DP 8 ²	W26	Site 4 & 5	32.401228°	-90.071832°	79+20	S35, T7N, R2E	0.06 / 0.08	PEM	0.06 ac filled within ROW for Alternative B; 0.08 ac filled within ROW for Alternative E.
GAR- DP 9		Site 6	32.397339°	-90.065958°	102+15	S2, T6N, R2E		Upland	
GAR- DP 10	W27	Site 5 & 6	32.397341°	-90.065977°	102+10	S2, T6N, R2E	0 / 0	PEM	Project will not impact W27
GAR- DP 11	W28	Site 5	32.397483°	-90.067581°	97+85	S2, T6N, R2E	0.91 / 0.91	PFO	0.91 ac of W28 cleared and/or shaded by bridge construction for either alternative.
GAR- DP 12		Site 5	32.397502°	-90.067536°	97+80	S2, T6N, R2E		Upland	
GAR- DP 11 ²	W29	Site 5	32.399103°	-90.068930°	91+00	S2, T6N, R2E	0 / 0	PEM	Project will not impact W29.
GAR- DP 11 ²	W30	Site 5	32.399256°	-90.068958°	90+60	S2, T6N, R2E	0 / 0	PFO	Project will not impact W30.
GAR- DP 13	W31	Site 5	32.399010°	-90.069626°	89+40	S2, T6N, R2E	0.07 / 0.07	PFO	0.07 ac filled within ROW for either alternative.
GAR- DP 14		Site 5	32.399068°	-90.069629°	89+30	S2, T6N, R2E	,	Upland	
GAR- DP 15	W32	Site 5	32.399197°	-90.070107°	87+80	S2, T6N, R2E	0.09 / 0.09	PFO	0.09 of W32 cleared and/or shaded by bridge construction for either alternative.
GAR- DP 16		Site 5	32.399179°	-90.070079°	87+95	S2, T6N, R2E		Upland	
GAR- DP 15 ²	W33	Site 4 & 5	32.399695°	-90.070647°	85+40	S35, T7N, R2E	0.12 / 0.12	PFO	0.12 ac of W33 cleared and/or shaded by bridge construction for either alternative.
GAR- DP 11 ²	W34	Site 5	32.397511°	-90.067820°	97+20	S2, T6N, R2E	0.07 / 0.07	PEM	0.07 ac of W34 cleared and/or shaded by bridge construction for either alternative.

¹Delineated by Cypress Environment and Infrastructure (CEI). Features delineated by CEI can be found in the Compiled Maps in Appendix E. ²While DP was not collected directly in specified wetland, the point is generally representative as area had similar hydrology, vegetation, and soils to adjoining wetland. DP- Data point- collection point for sampling data for wetland assessment.

W- Wetland- areas described as wetlands.

PEM- Palustrine Emergent; PFO- Palustrine Forested.

*Station Numbers are approximate. Estimated from centerline stationing of Alternative B.

Wetland Summary:	Total Alt. B Present (acres)	Total Alt. E Present (acres)	Permanent Fill- Alternative B (acres)	Clear and/or Shade- Alternative B (acres)	Permanent Fill- Alternative E (acres)	Clear and/or Shade- Alternative E (acres)
Forested	6.16	5.20	4.30	1.87	3.33	1.87
Emergent	0.52	0.58	0.46	0.07	0.51	0.07
Total	6.68	5.78	4.76	1.94	3.84	1.94

CA #	Site #/ OR Worksheet #	Latitude	Longitude	Section- Township- Range	Sta.*	Туре	Length in Project Area (feet)	Channel Width (feet)	Name	Impact
\mathbf{OW} 1^1	Site 4	32.402404°	-90.074962°	S34, T7N, R2E	68+90	Ι	164	15	Unnamed	162 LF piped within ROW for Alternative B; 153 LF piped within ROW for Alternative E
OW 2 ¹	Site 6 & 7	32.394360°	-90.062121°	S2, T6N, R2E	118+15	Р	380	8	Unnamed	208 LF piped within ROW for either alternative.
OW 3 ¹	Site 7	32.393329°	-90.061035°	S2, T6N, R2E	123+09	Р	438	10	Unnamed	370 LF shaded by bridge construction.
OW 4 ¹	Site 7	32.393194°	-90.060238°	S2, T6N, R2E	125+32	Е	375	20	Unnamed	293 LF piped within ROW for Alternative B; 292 LF piped within ROW for Alternative E
OW 5 ¹	Site 9	32.388059°	-90.052322°	S1, T6N, R2E	156+07	Р	417	10	Pelahatchie Creek	417 LF piped within ROW for Alternative B; 349 LF piped within ROW for Alternative E
OW 6 ¹	Site 9	32.387896°	-90.051052°	S1, T6N, R2E	159+80	Р	714	4	Unnamed	710 LF piped within ROW for either alternative.
OW 7	Site 5	32.398833°	-90.068169°	S2, T6N, R2E	93+40	Е	150	3	Unnamed	5 LF shaded by bridge construction for either alternative.
OW 8	Site 5	32.398963°	-90.068826°	S2, T6N, R2E	91+50	Р	377	8	Unnamed	252 LF shaded by bridge construction for either alternative.
OW 9	Site 5	32.399102°	-90.069104°	S2, T6N, R2E	90+55	Е	77	3	Unnamed	56 LF shaded by bridge construction for either alternative.
OW 10	Site 6	32.396582°	-90.064492°	S2, T6N, R2E	107+35	Р	180	189	Pearl River	180 LF shaded by bridge construction for either alternative.

 Table 2. Channel Assessment Table

¹Delineated by Cypress Environment and Infrastructure (CEI). Features delineated by CEI can be found in the Compiled Maps in Appendix E. CA- Channel Assessment- Channel Assessment point location

Type:

P-Perennial I-Intermittent

E-Ephemeral

*Station Numbers are approximate. Estimated from centerline stationing of Alternative B.

CA Summary:	Total Alt. B Present (linear feet)	Total Alt. E Present (linear feet)	Clear and/or Shade – Alt. B (linear feet)	Piped – Alt. B (linear feet)	Clear and/or Shade – Alt. E (linear feet)	Piped – Alt. E (linear feet)
Perennial	2,137	2,069	802	1,335	802	1,267
Intermittent	162	153	0	162	0	153
Ephemeral	354	353	61	293	61	292
Total	2,653	2,575	863	1,790	863	1,712

Pond ID #	Latitude	Longitude	Section- Township- Range	Sta.*	Size (Acres) Alt B / E	Impact
P1	32.407835°	-90.082119°	S34, T7N, R2E	39+15	2.06 / 4.52	2.06 ac filled within ROW for Alternative B; 4.52 ac filled within ROW for Alternative E.
P2	32.403609°	-90.075698°	S34, T7N, R2E	64+35	0.54 / 1.01	0.54 ac filled within ROW for Alternative B; 1.01 ac filled within ROW for Alternative E.
Р3	32.402001°	-90.073208°	S34, T7N, R2E	68+90	0.63 / 0.94	0.63 ac filled within ROW for Alternative B; 0.94 ac filled within ROW for Alternative E.
P4	32.400379°	-90.070679°	S35 T7N R2E	83+82	0.20 / 0.23	0.20 ac filled within ROW for Alternative B; 0.23 ac filled within ROW for Alternative E.

 Table 3.
 Pond Assessment Table

*Station Numbers are approximate. Estimated from centerline stationing of Alternative B.

Pond Summary:	Total Alt. B	Total Alt. E	Permanent Fill –	Permanent Fill –
	Present (acres)	Present (acres)	Alternative B (acres)	Alternative E (acres)
Total	3.43	6.70	3.43	6.70

- Mississippi Automated Resource Information System (MARIS). Accessed August 2023. Road, County, Road Network, Hydrologic Features, Watershed Data, Major Land Resource Areas, and other GIS information. http://www.maris.state.ms.us/
- U.S. Army Corps of Engineers (USACE). Environmental Laboratory. 1987. *Corps of Engineers Wetlands Delineation Manual*. Technical Report Y-87-1. U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.
- U.S. Army Corps of Engineers (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. EDRC/ EL TR- 10-20. Vicksburg, MS: U.S. Army Engineer Research and Development Center.
- U.S. Army Corps of Engineers (USACE). 2007. U.S. Army Corps of Engineers Jurisdictional Determination Form Instructional Guidebook (Rapanos Guidance).
 U.S. Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS). 2010. Field Indicators of the Hydric Soils in the United States. Version 7.0. ed. Hurt GS and Vasilas LM. USDA, NRCS, in cooperation with the National Technical Committee for Hydric Soils.
- U.S. Department of Agriculture (USDA), Natural Resources Conservation Service (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.
- U.S. Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS). Web Soil Survey- Custom Soil Report, websoilsurvey.nrcs.usda.gov, Accessed: September 2020.
- U.S. Fish and Wildlife Service (USFWS). 1979. *Classification of Wetlands and Deepwater Habitats of the United States* by Cowardin LM, Carter V, Golet FC, and LaRoe ET. FWS/OBS-79/31.
- U.S. Fish and Wildlife Service (USFWS). National Wetland Inventory (NWI) maps. https://www.fws.gov/wetlands/
- U.S. Geological Survey (USGS). National Elevation Dataset Digital Elevation Model. Obtained from the Mississippi Geospatial Clearinghouse, <u>www.gis.ms.gov</u>
- NOAA Climate Data Online. Accessed September 2023 for rainfall information. https://www.ncei.noaa.gov/cdo-web/

Appendix A — Methods and Tools

Table A-1. Methods and tools used to prepare the report.

Parameter	Method or Tool	Website	Reference
Wetland Delineation	1987 Manual	https://www.lrh.usace.army.mil/Port als/38/docs/USACE%2087%20Wetl and%20Delineation%20Manual.pdf	Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual, Technical Report Y-87-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, Miss.
	Regional Supplement	usace.contentdm.oclc.org/utils/getfil e/collection/p266001coll1/id/7594	U.S. Army Corps of Engineers. 2010. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (Version 2.0), ed. J.S. Wakely, R.W. Lichvar, and C.V. Noble. ERDC/ EL TR-10-20. Vicksburg, MS: U.S. Army Engineer Research and Development Center.
Wetland Classification	USFWS / Cowardin Classification System	https://www.fws.gov/wetlands/docu ments/classification-of-wetlands- and-deepwater-habitats-of-the- united-states.pdf	Cowardin, L. M., V. Carter, F. C. Golet, E. T. LaRoe. 1979. <i>Classification of wetlands and deepwater habitats</i> <i>of the United States</i> . Government Printing Office, Washington, D.C.
Other Waters Delineation	OHWM	https://www.federalregister.gov/docu ments/2023/01/18/2022- 28595/revised-definition-of-waters- of-the-united-states	Congressional Federal Register 33 Part 328 Definition of Waters of the United States.
Hydrology	Technical Standard	https://www.nrc.gov/docs/ML1327/ ML13276A040.pdf	U.S. Army Corps of Engineers. 2005. <i>Technical Standard for Water-Table Monitoring of Potential Wetland Sites, WRAP Technical Notes Collection</i> (ERDC TN-WRAP-05-02). U.S. Army Engineer Research and Development Center, Vicksburg, MS.
Plant Indicator	National Wetland Plant List	http://wetland_plants.usace.army.mil	U.S. Army Corps of Engineers. 2020. National Wetland Plant List, version 3.5.
Status	USDA Plant Database	http://plants.usda.gov/	Website
Soils Data	Soil Survey	Web Soil Survey: http://websoilsurvey.nrcs.usda.gov/a pp/WebSoilSurvey.aspx	Website
	Hydric Soil Indicators	https://nrcspad.sc.egov.usda.gov/Dist ributionCenter/pdf.aspx?productID= <u>663</u>	USDA Natural Resources Conservation Service. 2006b. <i>Field indicators of hydric soils in the United States,</i> <i>Version 6.0.</i> ed. G. W. Hurt and L. M. Vasilas. Fort Worth, TX: USDA NRCS in cooperation with the National Technical Committee for Hydric Soils.
Climate Data	NOAA Monthly Summary Tables	https://www.ncei.noaa.gov/cdo-web/	Website

Appendix B — **Detailed Site Information**

Site Maps, Wetland Datasheet, Other Water Field Datasheet, Site Photographs (Garver delineated aquatic features only)





Site 1



Site 1 2023 USDA National Agricultural Imagery Program







Site 1 - Alternative B 2023 USDA National Agricultural Imagery Program

Data Points

Wetland - Emergent

Open Water







Site 1 - Alternative E 2023 USDA National Agricultural Imagery Program



U.S. Army Corps of Engineers OMB Control #: 0710-0024, Exp: 11/30/2024 WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region Requirement Control Symbol EXEMPT:						
See ERDC/EL TR-10-20; the proponent agency is CECW-CO-R (Authority: AR 335-15, paragraph 5-2a)						
Project/Site: Bob Anthony Parkway Relocation	City/County: Ridgeland / M	adison Sampling Date: 8/15/2023				
Applicant/Owner: Pearl River Valley Water Supply District		State: MS Sampling Point: GAR-DP 1				
Investigator(s): Joe Rujawitz	Section, Township, Range: S3	4 T7N R2E				
Landform (hillside, terrace, etc.): swale	Local relief (concave, convex, non	e): concave Slope (%): 4				
Subregion (LRR or MLRA): LRR P, MLRA 134 Lat: 32.41147	'2° Long: -90.0	88769° Datum: WGS 1984				
Soil Map Unit Name: Cascilla-Calhoun association		NWI classification: n/a				
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes	No X (If no, explain in Remarks.)				
Are Vegetation , Soil , or Hydrology significan	tly disturbed? Are "Normal Circu	mstances" present? Yes No X				
Are Vegetation , Soil , or Hydrology naturally	problematic? (If needed, explain	n any answers in Remarks.)				
SUMMARY OF FINDINGS – Attach site map showi	ng sampling point locations	s, transects, important features, etc.				
Lividensky tie Venetation Descention	In the Commission Area					
Hydrophytic Vegetation Present? Yes X No	within a Wetland?	Yes X No				
Wetland Hydrology Present? Yes X No	-					
Remarks:	- 1					
According to USACE Antecedent Precipitation Tool, climatic cond	itions were drier than normal. Site m	eets all three criteria and is in a wetland.				
L HYDROLOGY						
Wetland Hydrology Indicators:	Se	condary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required: check all that app	dy)	Surface Soil Cracks (B6)				
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2) Marl Deposits (315) (LRR U)	Drainage Patterns (B10)				
Saturation (A3) Hydrogen Sulfic	e Odor (C1)	Moss Trim Lines (B16)				
Water Marks (B1) Oxidized Rhizos	pheres on Living Roots (C3)	Dry-Season Water Table (C2)				
Sediment Deposits (B2) Presence of Re	duced Iron (C4)	Crayfish Burrows (C8)				
Drift Deposits (B3) Recent Iron Rec	duction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4) Thin Muck Surface (C7) X Geomorphic Position (D2)						
Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3)						
Inundation Visible on Aerial Imagery (B7)	<u></u>	FAC-Neutral Test (D5)				
water-Stained Leaves (B9)		Sphagnum Moss (D8) (LRR 1, 0)				
Field Observations:						
Surface Water Present? Yes No X Depth (inches):					
Water Table Present? Yes No X Depth (inches):					
(includes capillary fringe)	wettand Hyd	rology Present? fes <u>A</u> No				
Describe Recorded Data (stream gauge monitoring well aerial n	notos previous inspections) if availa	ble [.]				
beschbe Recorded Data (stream gauge, montoning weil, acharp	iotos, provious inspectione), ir uvuit					
Remarks:						
Site meets wetland hydrology criteria.						
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	Abealute	Deminant	Indicator	
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Status	Dominance Test worksheet:
1.				Number of Dominant Species
2.				That Are OBL, FACW, or FAC: 2 (A)
3.				
4				Species Across All Strata: 2 (B)
5				
3				That Are OBL_EACW_or EAC' 100.0% (A/B
7.				Prevalence Index worksheet:
3.				Total % Cover of: Multiply by:
		=Total Cover		OBL species x 1 =
50% of total cover:	20%	of total cover:		FACW species x 2 =
Sanling/Shrub Stratum (Plot size:) 20%	or total obvor.		FAC species x 3 =
1	/			
2				
3				
1				Prevalence Index = P/A =
+				Hudrophytic Vacatation Indicatator
				nyurophytic vegetation indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				X 2 - Dominance Test is >50%
3.				3 - Prevalence Index is ≤3.0
		= l'otal Cover		Problematic Hydrophytic Vegetation' (Explain)
50% of total cover:	20%	of total cover:		
Herb Stratum (Plot size: 5')				
1. Panicum dichotomiflorum	40	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must
2. Diodia virginiana	15	Yes	FAC	present, unless disturbed or problematic.
3. Saururus cernuus	5	No	OBL	Definitions of Four Vegetation Strata:
4				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) of
5.				more in diameter at breast height (DBH), regardless of
3				height.
7.				Sanling/Shrub – Woody plants, excluding vines, less
l				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
)				
0				
1.				of size, and woody plants less than 3.28 ft tall
2.				
	60	=Total Cover		Woody Vine - All woody vines greater than 3.28 ft in
50% of total cover:	30 20%	of total cover:	12	height.
Noody Vine Stratum (Plot size:)				
1,				
2				
3.				
4.				
4 5.				Hydrophytic
4 5		= Lotal (Cover		A
5	20%	= I otal Cover		Vegetation Present? Yes Y No

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SOIL Sampling Point: GAR-DP 1										
Profile Desc	ription: (Describe	to the dept	h needed to doc	ument t	he indica	ator or c	onfirm the absence o	of indicators.)		
Depth	Matrix		Redox Features		_					
(inches)	Color (moist)	%	Color (moist)	%	Туре	Loc ²	Texture	Remarks		
0-6	10YR 6/1	80	10YR 4/6	20	С	М	Loamy/Clayey	Prominent redox concer	ntrations	
6-12	10YR 6/1	80	5YR 4/6	20	С	М	Loamy/Clayey	Prominent redox concer	ntrations	
	proprietation D-Dep	ation RM-	Reduced Matrix	AS-Mas	ked San	d Grains	² Location:	PL-Pore Liping M-Matrix		
Hydric Soil I	ndicators: (Applica	ble to all L	RRs. unless othe	erwise r	oted.)	u Grains.	Indicators	for Problematic Hydric Soi	ls ³ :	
Histosol	(A1)		Thin Dark S	urface (S	59) (LRR	S, T, U)	1 cm Muck (A9) (LRR O)			
Histic Ep	ipedon (A2)		Barrier Islan	ds 1 cm	Muck (S	12)	2 cm Muck (A10) (LRR S)			
Black His	stic (A3)		(MLRA 15	53B, 153	D)		Coast F	Prairie Redox (A16)		
Hydroger	n Sulfide (A4)		Loamy Much	ky Miner	al (F1) (L	.RR O)	(outs	ide MLRA 150A)		
Stratified	Layers (A5)		Loamy Gley	ed Matri	x (F2)		Reduce	ed Vertic (F18)		
Organic	Bodies (A6) (LRR P,	T, U)	X Depleted Ma	atrix (F3))		(outside MLRA 150A, 150B)			
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	int Floodplain Soils (F19) (LI	RR P, T)	
	ck (AQ) (LRR U)	Depieted Da	ark Surra	(E8)		Anoma	ous Bright Floodplain Solls ((F20)	
Depleted	Com Muck (A9) (LRR P, T) Redox Depressions (F8) (MLRA 153B) Depleted Below Dark Surface (A11) Mart (E10) / LRP (I) Redox Depressions (F8)							rent Material (F21)		
Thick Da	rk Surface (A12)	,	Depleted Oc	chric (F1	1) (MLR	A 151)	Very Shallow Dark Surface (F22)			
Coast Pr	Coast Prairie Redox (A16) (MLRA 150A) Iron-Manganese Masses (F12) (LRR O, F						0, P, T) (outside MLRA 138, 152A in FL, 154)			
Sandy Mucky Mineral (S1) (LRR O, S) Umbric Surface (F13) (LRR P, T, U)						Barrier Islands Low Chroma Matrix (TS7)				
Sandy Gleyed Matrix (S4) Delta Ochric (F17) (MLRA 151) (MLRA 153B, 153D)						A 153B, 153D)				
Sandy R	edox (S5)		Reduced Ve	ertic (F18	B) (MLRA	150A, 1	50B) Other (Explain in Remarks)		
Stripped	Matrix (S6)		Piedmont Fl	oodplair	Soils (F	19) (MLF	RA 149A)			
Dark Sur	face (S7) (LRR P, S	, T, U)	Anomalous	Bright Fl	oodplain	Soils (F2	20) ³ ludiae			
Polyvalue	E BEIOW SUITACE (58)	(MLRA 14	49A, 153 4 Dark S	C, 153D) =22)	wetland bydrology must be present			
(LRR S, T, U) Very Snallow Dark Surface (F22) (MLRA 138, 152A in FL, 154)				54)	unless disturbed or problematic.					
Restrictive L	_ayer (if observed):									
Type:										
Depth (in	nches):						Hydric Soil Prese	nt? Yes <u>X</u> No		
Remarks:	uduia anil anilania									
Site meets ny	yoric soil criteria.									

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U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plai See ERDC/EL TR-10-20; the proponent agency is CECW-CO-R	n Region OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)					
Project/Site: Bob Anthony Parkway Relocation City/County: Ri	dgeland / Madison Sampling Date: 8/15/20					
Applicant/Owner: Pearl River Valley Water Supply District	State: MS Sampling Point: GAR-D					
Investigator(s): Joe Rujawitz Section, Township,	Range: S34 T7N R2E					
Landform (hillside, terrace, etc.): hillside Local relief (concave, o	convex, none): convex Slope (%): 4					
Subregion (LRR or MLRA): LRR P, MLRA 134 Lat: 32.411455°	Long: -90.088761° Datum: WGS 1					
Soil Map Unit Name: Cascilla-Calhoun association	NWI classification: n/a					
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	No X (If no, explain in Remarks.)					
Are Vegetation . Soil . or Hydrology significantly disturbed? Are "N	ormal Circumstances" present? Yes No					
Are Vegetation . Soil . or Hydrology naturally problematic? (If nee	ded. explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing sampling point	locations, transects, important features, et					
Hudrophytic Vacatation Present? Vac. V. No. Is the Samples	Area					
Hydric Soil Present? Yes X No within a Wetlan	nd? Yes No X					
Wetland Hydrology Present? Yes No X						
Remarks: According to USACE Antecedent Precipitation Tool, climatic conditions were drier than normal. Site does not meet all three criteria and is not in a wetland.						
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 Soll Cracks (B6) Sparsely Vegetated Concave Surface (B8)					
High Water Table (A2) Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)					
Saturation (A3) Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)					
Water Marks (B1) Oxidized Rhizospheres on Living Roots	C3) Dry-Season Water Table (C2)					
Sediment Deposits (B2) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)					
Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)					
Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2)						
Iron Deposits (B5) Other (Explain in Remarks)	Shallow Aquitard (D3)					
Water-Stained Leaves (B9)	Sphagnum Moss (D8) (LRR T, U)					
Field Observations:						
Surface Water Present? Yes No X Depth (inches):						
Water Table Present? Yes No X Depth (inches):						
Saturation Present? Yes No X Depth (inches): W	etland Hydrology Present? Yes No 🔅					
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspectio	ns), if available:					
Remarks:						
No wetland hydrology indicators observed.						
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VEGETATION (Four Strata) - Use scien	unc names	or plants.		Sampling Point: GAR-DP 2
Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
 Juniperus virginiana 2. 	25	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3				Total Number of Dominant Species Across All Strata: 3 (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC:
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
	25	=Total Cover		OBL species x 1 =
50% of total cover:	13 20%	of total cover:	5	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)			FAC species x 3 =
1				FACU species x 4 =
2.				UPL species x 5 =
3.				Column Totals: (A) (B)
4.				Prevalence Index = B/A =
5.				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7.				X 2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.0 ¹
		=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20%	of total cover:		
Herb Stratum (Plot size: 5')				
1. Diodia virginiana	5	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must be
2. Lactuca serriola	5	Yes	FAC	present, unless disturbed or problematic.
3.				Definitions of Four Vegetation Strata:
4	. <u> </u>			Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
5.				more in diameter at breast height (DBH), regardless of
6.				height.
7.				Sanling/Shrub - Woody plants, excluding vines, less
8.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9.				
10.				Harb All both second (non-woods) plants, recordings
11				of size, and woody plants less than 3.28 ft tall.
12.				
	10	= I otal Cover		Woody Vine – All woody vines greater than 3.28 ft in height
50% of total cover:	5 20%	of total cover:	2	noight.
Woody Vine Stratum (Plot size:)				
1				
2.				
3.	·			
4.				
5.				Hydrophytic
		=Total Cover		Vegetation
50% of total cover:	20%	of total cover:		Present? Yes X No
Remarks: (If observed, list morphological adaptati Site meets hydrophytic vegetation criteria.	ons below.)			

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

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Atlantic and Gulf Coastal Plain - Version 2.0

SOIL Sampling Point: GAR-DP 2 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Matrix (inches) Color (moist) Color (moist) Loc² % % Type¹ Texture Remarks 0-6 10YR 4/2 92 10YR 3/6 8 С М Loamy/Clayey Prominent redox concentrations ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains, ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Thin Dark Surface (S9) (LRR S, T, U) 1 cm Muck (A9) (LRR O) Histic Epipedon (A2) Barrier Islands 1 cm Muck (S12) 2 cm Muck (A10) (LRR S) Black Histic (A3) (MLRA 153B, 153D) Coast Prairie Redox (A16) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR O) (outside MLRA 150A) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Reduced Vertic (F18) Organic Bodies (A6) (LRR P, T, U) X Depleted Matrix (F3) (outside MLRA 150A, 150B) 5 cm Mucky Mineral (A7) (LRR P, T, U) Redox Dark Surface (F6) Piedmont Floodplain Soils (F19) (LRR P, T) Muck Presence (A8) (LRR U) Anomalous Bright Floodplain Soils (F20) Depleted Dark Surface (F7) 1 cm Muck (A9) (LRR P, T) Redox Depressions (F8) (MLRA 153B) Depleted Below Dark Surface (A11) Marl (F10) (LRR U) Red Parent Material (F21) Thick Dark Surface (A12) Depleted Ochric (F11) (MLRA 151) Very Shallow Dark Surface (F22) Iron-Manganese Masses (F12) (LRR O, P, T) Coast Prairie Redox (A16) (MLRA 150A) (outside MLRA 138, 152A in FL, 154) Sandy Mucky Mineral (S1) (LRR O, S) Umbric Surface (F13) (LRR P, T, U) Barrier Islands Low Chroma Matrix (TS7) (MLRA 153B, 153D) Sandy Gleyed Matrix (S4) Delta Ochric (F17) (MLRA 151) Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A, 150B) Other (Explain in Remarks) Stripped Matrix (S6) Piedmont Floodplain Soils (F19) (MLRA 149A) Dark Surface (S7) (LRR P, S, T, U) Anomalous Bright Floodplain Soils (F20) Polyvalue Below Surface (S8) (MLRA 149A, 153C, 153D) ³Indicators of hydrophytic vegetation and (LRR S, T, U) Very Shallow Dark Surface (F22) wetland hydrology must be present, (MLRA 138, 152A in FL, 154) unless disturbed or problematic. Restrictive Layer (if observed): Soil Hardpan Type: Depth (inches): 6 Hydric Soil Present? No Yes Remarks: Site meets hydric soil criteria.


 GAR-DP 3 Hydric Soil

 Image: Hydric Soil

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Reg See ERDC/EL TR-10-20; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
Project/Site: Bob Anthony Parkway Relocation City/County: Ridgelar	d / Madison Sampling Date: 8/15/2023
Applicant/Owner: Pearl River Valley Water Supply District	State: MS Sampling Point: GAR-DP 3
Investigator(s): Joe Rujawitz Section, Township, Range	S34 T7N R2E
Landform (hillside, terrace, etc.): swale Local relief (concave, convex	, none): concave Slope (%): 10
Subregion (LRR or MLRA): LRR P, MLRA 134 Lat: 32.411312° Long:	-90.087676° Datum: WGS 1984
Soil Map Unit Name: Cascilla-Calhoun association	NWI classification: R5UBFx*
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	No X (If no, explain in Remarks.)
Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal	Circumstances" present? Yes No X
Are Vegetation Soil or Hydrology naturally problematic? (If needed e	xplain any answers in Remarks)
SUMMARY OF FINDINGS – Attach site map showing sampling point locat	ions, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No Is the Sampled Area Hydric Soil Present? Yes X No within a Wetland? Wetland Hydrology Present? Yes X No	Yes <u>X</u> No
Remarks: According to USACE Antecedent Precipitation Tool, climatic conditions were drier than normal. S shows aquatic feature shifted from where wetland actually occurs. DP taken outside NWI wetland	ite meets all three criteria and is in a wetland. *NWI I feature but is in the actual wetland.
HYDROLOGY	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) X Surface Water (A1) Aquatic Fauna (B13) X High Water Table (A2) Saturation (A3) Hydrogen Sulfide Odor (C1) Water Marks (B1) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) Presence of Reduced Iron (C4) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Thin Muck Surface (C7) X Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes X No Depth (inches): 0.5 Visited Present? O.5	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) X Dry-Season Water Table (C2) X Crayfish Burrows (C8) X Geomorphic Position (D2) Shallow Aquitard (D3) X FAC-Neutral Test (D5) Sphagnum Moss (D8) (LRR T, U)
Water Table Present? Yes X No Depth (inches): 0	
Saturation Present ? Yes X NO Depth (inches): U Wetland	Hydrology Present? Yes X No
Remarks: Site meets wetland hydrology criteria.	available:
ENG FORM 6116-2, JUL 2018	Atlantic and Gulf Coastal Plain – Version 2.

ee Stratum (Plot size:)	Absolute	Dominant	Indicator	
, (i iotoizoi	% Cover	Species?	Status	Dominance Test worksheet:
				Number of Dominant Species That Are OBL, FACW, or FAC:(/
				Total Number of Dominant Species Across All Strata:
				Percent of Dominant Species That Are OBL, FACW, or FAC: (//
				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
		=Total Cover		OBL species x 1 =
50% of total cover:	20%	of total cover:		FACW species x 2 =
apling/Shrub Stratum (Plot size:)			FAC species x 3 =
	- ′			FACU species x 4 =
				UPL species x 5 =
				Column Totals: (A)
				Prevalence Index = B/A =
				Hudrophytic Vegetation Indicators:
				Y 1 Denid Test for Undershutin Verstetion
				Paminanaa Taat ia 550%
				2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3.0
		= I otal Cover		Problematic Hydrophytic Vegetation (Explain)
50% of total cover:	20%	of total cover:		
erb Stratum (Plot size: 5')				
Leersia hexandra	80	Yes	OBL	¹ Indicators of hydric soil and wetland hydrology mu
Diodia virginiana	15	No	FAC	present, unless disturbed or problematic.
Eleocharis acicularis	5	No	OBL	Definitions of Four Vegetation Strata:
				Tree - Woody plants, excluding vines, 3 in. (7.6 cr
				more in diameter at breast height (DBH), regardles
				neight.
				Sanling/Shrub Woody plants, evaluding vines 1
				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
				Herb – All herbaceous (non-woody) plants, regard
				or size, and woody plants less than 5.20 it tail.
	100	=Total Cover		Woody Vine – All woody vines greater than 3.28 f
50% of total cover:	50 20%	of total cover:	20	height.
50% of total cover:	50 20%	of total cover:	20	height.
50% of total cover: <u>body Vine Stratum</u> (Plot size:)	50 20%	of total cover:	20	height.
50% of total cover: <u>body Vine Stratum</u> (Plot size:)	50 20%	of total cover:	20	height.
50% of total cover: oody Vine Stratum (Plot size:)	50 20%	of total cover:	20	height.
50% of total cover: oody Vine Stratum (Plot size:)	50 20%	of total cover:	20	height.
50% of total cover: loody Vine Stratum (Plot size:)	50 20%	of total cover:	20	height.
50% of total cover: loody Vine Stratum (Plot size:)	50 20%	f total cover:	20	height. Hydrophytic
50% of total cover: loody Vine Stratum (Plot size:)		of total cover:	20	height. Hydrophytic Vegetation

ee Stratum (Plot size:)	Absolute	Dominant	Indicator	
, (i iotoizoi	% Cover	Species?	Status	Dominance Test worksheet:
				Number of Dominant Species That Are OBL, FACW, or FAC:(/
				Total Number of Dominant Species Across All Strata:(I
				Percent of Dominant Species That Are OBL, FACW, or FAC: (//
				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
		=Total Cover		OBL species x 1 =
50% of total cover:	20%	of total cover:		FACW species x 2 =
apling/Shrub Stratum (Plot size:)			FAC species x 3 =
	- ′			FACU species x 4 =
				UPL species x 5 =
				Column Totals: (A)
				Prevalence Index = B/A =
				Hudrophytic Vegetation Indicators:
				Y 1 Denid Test for Undershutin Verstetion
				Paminanaa Taat ia 550%
				2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3.0
		= I otal Cover		Problematic Hydrophytic Vegetation (Explain)
50% of total cover:	20%	of total cover:		
erb Stratum (Plot size: 5')				
Leersia hexandra	80	Yes	OBL	¹ Indicators of hydric soil and wetland hydrology mu
Diodia virginiana	15	No	FAC	present, unless disturbed or problematic.
Eleocharis acicularis	5	No	OBL	Definitions of Four Vegetation Strata:
				Tree - Woody plants, excluding vines, 3 in. (7.6 cr
				more in diameter at breast height (DBH), regardles
				neight.
				Sanling/Shrub Woody plants, evaluding vines 1
				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
				5,
				Herb – All herbaceous (non-woody) plants, regard
				or size, and woody plants less than 5.20 it tail.
	100	=Total Cover		Woody Vine – All woody vines greater than 3.28 f
50% of total cover:	50 20%	of total cover:	20	height.
50% of total cover:	50 20%	of total cover:	20	height.
50% of total cover: <u>body Vine Stratum</u> (Plot size:)	50 20%	of total cover:	20	height.
50% of total cover: <u>body Vine Stratum</u> (Plot size:)	50 20%	of total cover:	20	height.
50% of total cover: oody Vine Stratum (Plot size:)	50 20%	of total cover:	20	height.
50% of total cover: oody Vine Stratum (Plot size:)	50 20%	of total cover:	20	height.
50% of total cover: loody Vine Stratum (Plot size:)	50 20%	of total cover:	20	height.
50% of total cover: loody Vine Stratum (Plot size:)	50 20%	f total cover:	20	height. Hydrophytic
50% of total cover: loody Vine Stratum (Plot size:)		of total cover:	20	height. Hydrophytic Vegetation

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-10-20; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
Project/Site: Bob Anthony Parkway Relocation City/County: Ridgeland / M	adison Sampling Date: 8/15/2023
Applicant/Owner: Pearl River Valley Water Supply District	State: MS Sampling Point: GAR-DP 4
Investigator(s): Joe Rujawitz Section, Township, Range: S34	4 T7N R2E
Landform (hillside, terrace, etc.): hillside Local relief (concave, convex, none	e): convex Slope (%): 10
Subregion (LRR or MLRA): LRR P, MLRA 134 Lat: 32.411333° Long: -90.04	87665° Datum: WGS 1984
Soil Map Unit Name: Cascilla-Calhoun association	NWI classification: n/a
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	No X (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturbed? Are "Normal Circuit	mstances" present? Yes No X
Are Vegetation, Soil, or Hydrologynaturally problematic? (If needed, explain	any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations	, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes No X Wetland Hydrology Present? Yes No X	Yes NoX
Remarks: According to USACE Antecedent Precipitation Tool, climatic conditions were drier than normal. Site do wetland.	es not meet all three criteria and is not in a
HYDROLOGY	
Wetland Hydrology Indicators: Sea Primary Indicators (minimum of one is required: check all that apply)	condary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum Moss (D8) (LRR T, U)
Field Observations:	
Surrace water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches): Wetland Hyd	rology Present? Yes No X
(includes capillary fringe)	hle
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if availa	ule.
Remarks: No wetland hydrology indicators observed.	Atlantia and Oulf Constal Pinta Marries 21

ee Stratum (Plot size:)	Absolute	Dominant	Indicator	
,	% Cover	Species?	Status	Dominance Test worksheet:
				Number of Dominant Species That Are OBL, FACW, or FAC:1
		·		Total Number of Dominant Species Across All Strata: 2 (
		·		Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A
				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
		=Total Cover		OBL species x 1 =
50% of total cover:	20%	of total cover:		FACW species x 2 =
pling/Shrub Stratum (Plot size:)			FAC species x 3 =
				FACU species x 4 =
				UPL species x 5 =
				Column Totals: (A)
				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
		·		1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
				3 - Prevalence Index is <3.0 ¹
		-Total Cover		Broblematic Hydrophytic Vegetation ¹ (Evplain
		-fotal cover		
50% of total cover:	20%	or total cover:		
rb Stratum (Plot size: 5')			=1.0	
Setaria pumila	70	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology mu
Paspalum notatum	25	Yes	FACU	present, unless disturbed or problematic.
Paspalum dilatatum	5	No	FAC	Definitions of Four Vegetation Strata:
				Tree - Woody plants, excluding vines, 3 in. (7.6 cr
				more in diameter at breast height (DBH), regardles
				height.
				Sapling/Shrub Woody plants excluding vines
				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
				anan e nn 2211 ann 31-ann anan ei2e n (t m) aann
		·		Herb – All herbaceous (non-woody) plants, regard
				or size, and woody plants less than 5.20 it tall.
		-Total Causer		
	100 :	- Total Cover		Woody Vine - All woody vines greater than 3.28 f
50% of total cover	100 · · · · · · · · · · · · · · · · · ·	of total cover	20	Woody Vine – All woody vines greater than 3.28 f height.
50% of total cover:	<u>100</u> 50 20%	of total cover:	20	Woody Vine – All woody vines greater than 3.28 f height.
50% of total cover:	<u>100</u> 50 20% _)	of total cover:	20	Woody Vine – All woody vines greater than 3.28 f height.
50% of total cover:		of total cover:	20	Woody Vine – All woody vines greater than 3.28 f height.
50% of total cover: _ pody Vine Stratum (Plot size:		of total cover:	20	Woody Vine – All woody vines greater than 3.28 f height.
50% of total cover: <u>body Vine Stratum</u> (Plot size:		of total cover:	20	Woody Vine – All woody vines greater than 3.28 f height.
50% of total cover:		of total cover:	20	Woody Vine – All woody vines greater than 3.28 f height.
50% of total cover: oody Vine Stratum (Plot size:		of total cover:	20	Woody Vine – All woody vines greater than 3.28 f height. Hydrophytic
50% of total cover: <u>body Vine Stratum</u> (Plot size:		Total Cover	20	Woody Vine – All woody vines greater than 3.28 f height. Hydrophytic Vegetation

SOIL								Sampling Poin	t: GAR-DP 4
Profile Desc	cription: (Describe	to the depth	n needed to doc	ument the indic	ator or co	onfirm the	absence of in	dicators.)	
Depth	Matrix		Redo	ox Features	1 2	-			
(inches)	Color (moist)	%	Color (moist)	% Type	Loc-	lex	ture	Rem	arks
0-14	10YR 4/3	80	10YR 4/4			Loamy	/Clayey	20% 10YR 4	l/4 in matrix
				·					
				·					
				·					
				·					
1									
'Type: C=C	oncentration, D=Dep	letion, RM=F	Reduced Matrix,	MS=Masked San	d Grains.	-	Location: PL=	Pore Lining, M=N	Aatrix.
Histosol	(A1)	ible to all Li	Thin Dark S	erwise noted.) Surface (S9) (LRE	м. т. г.		1 cm Muck		inc sons :
Histic Fr	nipedon (A2)		Barrier Islar	nds 1 cm Muck (S	(12)	-	2 cm Muck	(A3) (LRR C)	
Black Hi	istic (A3)		(MLRA 1	53B, 153D)	,	-	Coast Prairi	e Redox (A16)	
Hydroge	en Sulfide (A4)		Loamy Muc	ky Mineral (F1) (LRR O)	-	(outside	MLRA 150A)	
Stratified	d Layers (A5)		Loamy Gley	ved Matrix (F2)		_	Reduced Ve	ertic (F18)	
Organic	Bodies (A6) (LRR P	, T, U)	Depleted M	atrix (F3)			(outside	MLRA 150A, 15	0B)
5 cm Mu	ucky Mineral (A7) (LF	RR P, T, U)	Redox Dark	Surface (F6)		-	Piedmont F	loodplain Soils (F19) (LRR P, T
Muck Pr	resence (A8) (LRR U)	Depleted Da	ark Surface (F7)		-	Anomalous	Bright Floodplai	n Soils (F20)
Depleter	JCK (A9) (LKK P, T) d Below Dark Surface	ο (Δ11)	Marl (E10) /	IPP II)			(MLKA 1: Red Parent	Material (F21)	
Thick Da	ark Surface (A12)	5 (ATT)	Nan (110) (Depleted O	chric (F11) (MLR	A 151)	-	Verv Shallo	w Dark Surface	(F22)
Coast P	rairie Redox (A16) (N	ILRA 150A)	Iron-Manga	nese Masses (F1	2) (LRR (D, P, T)	(outside	MLRA 138, 152	A in FL, 154)
Sandy N	/ucky Mineral (S1) (L	.RR 0, S)	Umbric Sur	face (F13) (LRR	P, T, U)		Barrier Islar	nds Low Chroma	Matrix (TS7)
Sandy G	Gleyed Matrix (S4)		Delta Ochri	c (F17) (MLRA 1	51)	-	(MLRA 1	53B, 153D)	
Sandy R	Redox (S5)		Reduced Ve	ertic (F18) (MLRA	A 150A, 1	50B)	Other (Expl	ain in Remarks)	
Stripped	Matrix (S6)		Piedmont F	loodplain Soils (F	19) (MLR	RA 149A)			
Dark Su	rface (S7) (LRR P, S	, Τ, U)	Anomalous	Bright Floodplain	Soils (F2	20)	31		
Polyvalu)	(MLRA 14	49A, 153C, 153D	() E22)		Indicators of	or nyaropnytic ve wdrology must b	getation and
	3, 1, 0)		(MLRA 1	38. 152A in FL. 1	54)		unless di	sturbed or proble	e present,
Restrictive	l aver (if observed):		(,		4111000 41	otana or prose	
Type:	Luger (il observeu).								
Depth (ii	nches):					Hydric	Soil Present?	Yes	No X
Remarks:						,			
Site does no	t meet hydric soil crit	eria.							

ENG FORM 6116-2, JUL 2018





Open Water

Bob Anthony Parkway Relocation Madison, Hinds, and Rankin County, Mississippi

Site 2 - Alternative B 2023 USDA National Agricultural Imagery Program

October 2023



Open Water

Bob Anthony Parkway Relocation Madison, Hinds, and Rankin County, Mississippi

Site 2 - Alternative E 2023 USDA National Agricultural Imagery Program





Site 3 2023 USDA National Agricultural Imagery Program





Bob Anthony Parkway Relocation Madison, Hinds, and Rankin County, Mississippi

Site 3 - Alternative B 2023 USDA National Agricultural Imagery Program



Site 3 - Alternative E 2023 USDA National Agricultural Imagery Program



U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-10-20; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
Project/Site: Bob Anthony Parkway Relocation City/County: Ridgeland / M	adison Sampling Date: 8/15/2023
Applicant/Owner: Pearl River Valley Water Supply District	State: MS Sampling Point: GAR-DP 5
Investigator(s): Joe Rujawitz Section Township Range: S3	4 T7N R2E
Landform (hillside terrace etc.): swale Local relief (concave convex non	e): concave Slope (%): 2
Subregion (I BR or MI BA): LBR P. MI BA 134 Lat: 32 404996° Long: -90.0	77638° Datum: WGS 1984
Soil Map Unit Name: Cascilla-Calhoun association	NWI classification: R5UBEx*
Are climatic / hydrologic conditions on the site typical for this time of year?	
Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circu	mstances" present? Ves No V
Are Vegetation, Soli, of Hydrologysignificantly disturbed? Are Normal Circu	
Are vegetation, or Hydrologynaturally problematic? (in needed, explain	rany answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations	s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No Is the Sampled Area within a Wetland? Hydric Soil Present? Yes X No within a Wetland? Wetland Hydrology Present? Yes X No No	Yes <u>X</u> No
Remarks: According to USACE Antecedent Precipitation Tool, climatic conditions were drier than normal. Site m shows aquatic feature shifted from where wetland actually occurs. DP taken outside NWI wetland bou	eets all three criteria and is in a wetland. *NWI indary but still refers to the feature.
HYDROLOGY	
Wetland Hydrology Indicators: Se	condary Indicators (minimum of two required)
Primary Indicators (minimum of one is required: check all that apply)	_Surface Soil Cracks (B6)
X Surface Water (A1) Aquatic Fauna (B13)	_ Sparsely Vegetated Concave Surface (B8)
X Saturation (A3) Hvdrogen Sulfide Odor (C1)	Moss Trim Lines (B16)
Water Marks (B1) Oxidized Rhizospheres on Living Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) X	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7) X	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remarks)	_Snallow Aquitaro (D3) EAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum Moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes X No Depth (inches): 2	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes X No Depth (inches): 0 Wetland Hyd	rology Present? Yes X No
(includes capillary fringe)	shla
Describe Recorded Data (stream gauge, monitoring well, aenai protos, previous inspections), il availa	able.
Remarks:	
Site meets wetland hydrology criteria.	
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			Absolute	Dominant	Indicator	
ree Stratum	(Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
-						Number of Dominant Species That Are OBL, FACW, or FAC:(#
i.						Total Number of Dominant Species Across All Strata:(6
i. i.						Percent of Dominant Species That Are OBL. FACW. or FAC: (A
						Prevalence Index worksheet:
J						Total % Cover of: Multiply by:
				=Total Cover		OBL species x 1 =
	50% of tot	al cover:	20%	of total cover:		FACW species x 2 =
apling/Shrub	Stratum (Plot size:)				FAC species x 3 =
		^				FACU species x 4 =
						UPL species x 5 =
						Column Totals: (A)
						Prevalence Index = B/A =
						Hydrophytic Vegetation Indicators:
						X 1 - Rapid Test for Hydrophytic Vegetation
						2 Deminente Test lo Hydrophytic Vegetation
						2 - Dominance Test is >50%
				Table		S - Prevalence Index is ≤5.0
				= I otal Cover		Problematic Hydrophytic Vegetation" (Explain)
	50% of tot	al cover:	20%	of total cover:		
erb Stratum	(Plot size: 5')				
Leersia he	xandra		100	Yes	OBL	¹ Indicators of hydric soil and wetland hydrology mu
						present, unless disturbed or problematic.
						Definitions of Four Vegetation Strata:
						Tree - Woody plants, excluding vines, 3 in. (7.6 cm
						more in diameter at breast height (DBH), regardles
						height.
						Sapling/Shrub Woody plants excluding vines V
						than 3 in. DBH and greater than 3.28 ft (1 m) tall.
).						
I						Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall.
			100	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft
	50% of tot	al cover: 5	0 20%	of total cover:	20	neight.
oody Vine St	tratum (Plot size:)				
						Hydrophytic
				=Total Cover		Vegetation
			20%	of total cover:		Present? Yes X No
	50% of tot	al cover:				
	50% of tot	aical adaptation	ne below)			
temarks: (If o	50% of tot	ial cover:	ns below.)			
i. 5. Remarks: (If o iite meets hyd	50% of tot observed, list morpholo trophytic vegetation cri	ial cover: ogical adaptation iteria.	ns below.)			
	50% of tot observed, list morpholo drophytic vegetation cri	al cover: gical adaptation iteria.	ns below.)			
temarks: (If o	50% of tot bserved, list morpholo frophytic vegetation cri	al cover: gical adaptatio iteria.	ns below.)			
i.	50% of tot	ial cover: ngical adaptation iteria.	ns below.)			

SOIL								Sampling Point: GAR-DP
Profile Desc	ription: (Describe	to the dep	th needed to doc	ument t	he indic	ator or co	onfirm the absence	of indicators.)
Depth	Matrix		Rede	ox Featur	res			
(inches)	Color (moist)	%	Color (moist)	%	Туре	Loc ²	Texture	Remarks
0-12	10YR 6/1	90	10YR 5/8	10	С	PL/M	Loamy/Clayey	Prominent redox concentration
					·			
¹ Type: C=Co	oncentration, D=Dep	letion, RM=	Reduced Matrix,	MS=Mas	ked San	d Grains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil I	Indicators: (Applica	able to all I	RRs, unless oth	erwise n	noted.)		Indicators	for Problematic Hydric Soils ³ :
Histosol	(A1)		Thin Dark S	Surface (S	59) (LRR	S, T, U)	1 cm M	luck (A9) (LRR O)
Histic Ep	pipedon (A2)		Barrier Islar	nds 1 cm	Muck (S	12)	2 cm M	luck (A10) (LRR S)
Black His	stic (A3)		(MLRA 1	53B, 153	BD)		Coast	Prairie Redox (A16)
Hydroge	n Sulfide (A4)		Loamy Muc	ky Miner	al (F1) (I	.RR O)	(outs	ide MLRA 150A)
Stratified	I Layers (A5)		Loamy Gley	ed Matri	x (F2)		Reduce	ed Vertic (F18)
Organic	Bodies (A6) (LRR P,	, T, U)	X Depleted M	atrix (F3))		(outs	ide MLRA 150A, 150B)
5 cm Mu	icky Mineral (A7) (LF	(R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	ont Floodplain Soils (F19) (LRR P,
1 are Mu	esence (A8) (LRR U)	Depleted D	ark Suria	(EQ)		Anoma	Ious Bright Floodplain Solis (F20)
T Chi Mu	Below Dark Surface	ο (Δ11)	Marl (E10)		(F0)		(MLP Red Pa	arent Material (E21)
Depieted	ark Surface (A12)	= (ATT)	Depleted O	chric (E1	1) (MI R	A 151)	Neu Fa	hallow Dark Surface (E22)
Coast Pr	rairie Redox (A16) (N	II RA 1504	Licon-Manga	nese Ma	SSAS (F1	2) (I RR (ide MI RA 138 152A in FL 154)
Sandy M	lucky Mineral (S1) (L	.RR O. S)	Umbric Sur	face (F13	3) (LRR	2, (ERR)	Barrier	Islands Low Chroma Matrix (TS7)
Sandy G	leved Matrix (S4)		Delta Ochri	c (F17) (MLRA 1	, , , o, 51)	(MLR	A 153B. 153D)
Sandy R	edox (S5)		Reduced V	ertic (F18	B) (MLRA	150A, 1	50B) Other (Explain in Remarks)
Stripped	Matrix (S6)		Piedmont F	loodplain	n Soils (F	19) (MLF	A 149A)	,
Dark Sur	rface (S7) (LRR P, S	, T, U)	Anomalous	Bright Fl	loodplain	Soils (F2	:0)	
Polyvalu	e Below Surface (S8	5)	(MLRA 1	49A, 153	C, 153D)	³ Indica	tors of hydrophytic vegetation and
(LRR :	S, T, U)		Very Shallo	w Dark S	Surface (I	-22)	wetla	and hydrology must be present,
			(MLRA 1	38, 152A	in FL, 1	54)	unle	ss disturbed or problematic.
Restrictive I	Layer (if observed):							
Type:								
Depth (ir	nches):						Hydric Soil Prese	ent? Yes X No
Remarks:							•	
Site meets h	ydric soil criteria.							

ENG FORM 6116-2, JUL 2018

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coa See ERDC/EL TR-10-20; the proponent agency is CECV	Stal Plain Region V-CO-R OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
Project/Site: Bob Anthony Parkway Relocation City/C	ounty: Ridgeland / Madison Sampling Date: 8/15/2023
Applicant/Owner: Pearl River Valley Water Supply District	State: MS Sampling Point: GAR-DP
Investigator(s): Joe Rujawitz Section, T	ownship, Range: S34 T7N R2E
Landform (hillside, terrace, etc.): hillside Local relief (oncave, convex, none): convex Slope (%): 2
Subregion (LRR or MLRA): LRR P. MLRA 134 Lat: 32.405035°	Long: -90.077661° Datum: WGS 198
Soil Map Unit Name: Cascilla-Calhoun association	NWI classification: n/a*
Are climatic / bydrologic conditions on the site typical for this time of year?	Vee No X (If no explain in Remarke)
Are Vogetation Soil X or Hudrology significantly disturbed?	Are "Normal Circumstances" procent?
Are Vegetation, Soil, or Hydrologysignificantly disturbed?	Are Normal Circuinstances present? Tes No
Are vegetation, Soil, or Hydrologynaturally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing samplin	g point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X Is the within the withe within the withe within the within the within the within the wit	Sampled Area a Wetland? Yes NoX
According to USACE Antecedent Precipitation Tool, climatic conditions were drive wetland. Soil appeared recently disturbed. *NWI shows aquatic feature shifted fratures but is outside the actual delineated wetland.	r than normal. Site does not meet all three criteria and is not in a om where wetland actually occurs. DP taken inside NWI wetland
HYDROLOGY	
Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Aquatic Fauna (B13) High Water Table (A2) Marl Deposits (B15) (LRR U) Saturation (A3) Hydrogen Sulfide Odor (C1) Water Marks (B1) Oxidized Rhizospheres on Livi Sediment Deposits (B2) Presence of Reduced Iron (C4 Drift Deposits (B3) Recent Iron Reduction in Tilled 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: Surface Water Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): [includes capillary fringe)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Soils (C6) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum Moss (D8) (LRR T, U)
Remarks: No wetland hydrology indicators observed.	inspections), if available:
ENG FORM 6116-2, JUL 2018	Atlantic and Gulf Coastal Plain – Version 2

ee Stratum (Plot size:)	Absolute	Dominant	Indicator	
(interested)	% Cover	Species?	Status	Dominance Test worksheet:
				Number of Dominant Species That Are OBL, FACW, or FAC: 0 (
				Total Number of Dominant Species Across All Strata: 2 (
				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (
				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
		=Total Cover		OBL species x 1 =
50% of total cover:	20%	of total cover:		FACW species x 2 =
pling/Shrub Stratum (Plot size:)			FAC species x 3 =
	/			FACU species x 4 =
-				UPL species x 5 =
				Column Totals: (A)
				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
				A papid Test for Hydrophytic Vegetation
				2 Deminance Test in >50%
				2 - Dominance Test is >50%
				3 - Prevalence Index is \$3.0
		= I otal Cover		Problematic Hydrophytic Vegetation (Explain
50% of total cover:	20%	of total cover:		
rb Stratum (Plot size: 5')				
Cynodon dactylon	70	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology mu
Paspalum notatum	20	Yes	FACU	present, unless disturbed or problematic.
Kummerowia striata	10	No	FACU	Definitions of Four Vegetation Strata:
				Tree - Woody plants, excluding vines, 3 in. (7.6 cr
				more in diameter at breast height (DBH), regardles
				neight.
				Sapling/Shrub Woody plants, evoluting vines
				than 3 in DBH and greater than 3.28 ft (1 m) tall
				and one port and greater than eleo it (1 m) tank
				Herb – All herbaceous (non-woody) plants, regard
				or size, and woody plants less than 3.26 it tall.
	100	=Total Cover		
	100			Woody Vine – All woody vines greater than 3.28 1
50% of total cover:	50 20%	of total cover:	20	height.
50% of total cover:	50 20%	of total cover:	20	height.
50% of total cover: body Vine Stratum (Plot size:		of total cover:	20	woody vine – All woody vines greater than 3.28 t height.
50% of total cover: body Vine Stratum (Plot size:		of total cover:	20	woody vine – All woody vines greater than 3.28 t height.
50% of total cover: <u>body Vine Stratum</u> (Plot size:		of total cover:	20	woody vine – All woody vines greater than 3.28 t height.
50% of total cover: <u>body Vine Stratum</u> (Plot size:		of total cover:	20	woody vine – All woody vines greater than 3.28 t height.
50% of total cover: <u>body Vine Stratum</u> (Plot size:		of total cover:	20	woody vine – All woody vines greater than 3.28 t height.
50% of total cover: <u>oody Vine Stratum</u> (Plot size:		of total cover:	20	Woody Vine – All Woody Vines greater than 3.28 t height.
50% of total cover:		of total cover:	20	Woody Vine – All Woody Vines greater than 3.28 f height. Hydrophytic Vegetation

Tome Desc	ription: (Describe)	to the dep	th needed to doc	ument t	he indica	itor or co	onfirm th	e absence of	indicators.)		
epth	Matrix		Redo	x Featu	res	. 2	_		-		
nches)	Color (moist)	%	Color (moist)	%	Type'	Loc	Te	exture	R	lemarks	
0-2	10YR 4/3	100					Loam	y/Clayey			
2-6	10YR 5/3	96	10YR 5/6	4	С	м	Loam	my/Clayey Distinct redox conce		ox conce	ntrations
6-14	10YR 5/8	100					Loam	y/Clayey			
								i			
ype: C=Ce	oncentration, D=Depl	etion, RM=	Reduced Matrix, I	MS=Mas	ked Sand	d Grains.		² Location: Pl	_=Pore Lining, I	M=Matrix	
Histosof Histoc Er Black Hi Hydroge Stratifiec Organic 5 cm Mu Muck Pr 1 cm Mu Depleter Thick Da Coast Pr Sandy M Sandy R Sandy R Stripped Dark Su	(A1) sipedon (A2) stic (A3) n Sulfide (A4) 4 Layers (A5) Bodies (A6) (LRR P, icky Mineral (A7) (LR esence (A8) (LRR U) ick (A9) (LRR P, T) 4 Below Dark Surface ark Surface (A12) rairie Redox (A16) (M fucky Mineral (S1) (L Sieyed Matrix (S4) tedox (S5) Matrix (S6) rface (S7) (LRR P, S	T, U) R P, T, U) (A11) ILRA 150A RR O, S)	Thin Dark S Barrier Islan (MLRA 11 Loamy Muci Loamy Gley Depleted Ma Redox Dark Depleted Da Redox Depr Marl (F10) (Depleted Oc) Iron-Manga Umbric Surf Delta Ochric Reduced Ve Piedmont Fi Anomalous	urface (\$ ds 1 cm 53B, 153 ky Miner ed Matri atrix (F3) Surface ark Surfa essions LRR U) thric (F1 esse Ma ace (F13 c (F17) (fortic (F18 oodplair Bright FI	S39 (LRR Muck (S iD) al (F1) (L x (F2)) (F6) ice (F7) (F8) 1) (MLRJ SSSS (F1) 3) (LRR F MLRA 15 3) (MLRA 1 Soils (F 0 sodplain	S, T, U) 12) RR O) 2) (LRR C 2) (LRR C 7, T, U) 10 150A, 11 150A, 11 150 (MLR Soils (F2	D, P, T) 50B) (A 149A) 0)	1 cm Mu 2 cm Mu Coast Pr (outsic Reduced (outsic Piedmon Anomalo (MLRA Red Pare Very Sha (outsic Barrier Is (MLRA Other (E)	k (A9) (LRR O ck (A9) (LRR C airie Redox (A1 le MLRA 150A) Vertic (F18) le MLRA 150A) Vertic (F18) le MLRA 150A, t Floodplain Soi us Bright Flood 153B) ant Material (F2 illow Dark Surfa le MLRA 138, 1 lands Low Chro 153B, 153D) xplain in Remar	150B) 150B) 150B) 150B) 150B) 10 10 10 10 10 10 10 10 10 10	(LRR P, T s (F20) :L, 154) ix (TS7)
Polyvalu (LRR	e Below Surface (S8 S, T, U))	(MLRA 14 Very Shallow (MLRA 13	19A, 153 w Dark S 88, 152A	C, 153D) Surface (F	522) 5 4)		³ Indicator wetlan unless	rs of hydrophyti d hydrology mu disturbed or pr	c vegetat ist be pre oblematio	ion and sent, c.
estrictive I Type: Depth (ii emarks: ite does no	Layer (if observed):	eria. Soils a	at site appear distr	urbed by	recent ci	ulvert inst	Hydri	c Soil Presen	t? Yes_	N	lo <u>X</u>





Bob Anthony Parkway Relocation Madison, Hinds, and Rankin County, Mississippi

Site 4 2023 USDA National Agricultural Imagery Program





Bob Anthony Parkway Relocation Madison, Hinds, and Rankin County, Mississippi

Site 4 - Alternative B 2023 USDA National Agricultural Imagery Program





Site 4 - Alternative E 2023 USDA National Agricultural Imagery Program

Data Points

Wetland - Emergent

Wetland - Forested

Open Water



U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-10-20; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)			
Project/Site: Bob Anthony Parkway Relocation City/County: Ridgeland /	Madison Sampling Date: 8/15/2023			
Applicant/Owner: Pearl River Valley Water Supply District	State: MS Sampling Point: GAR-DP 7			
Investigator(s): Joe Rujawitz Section, Township, Range: S	34 T7N R2E			
Landform (hillside, terrace, etc.): hillside Local relief (concave, convex, no	ne): convex Slope (%): 6			
Subregion (LRR or MLRA): LRR P, MLRA 134 Lat: 32.402942° Long: -90.	.074501° Datum: WGS 1984			
Soil Map Unit Name: Cascilla-Calhoun association	NWI classification: n/a			
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	No X (If no, explain in Remarks.)			
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circ	cumstances" present? Yes No X			
Are Vegetation, Soil, or Hydrologynaturally problematic? (If needed, expla	ain any answers in Remarks.)			
SUMMARY OF FINDINGS – Attach site map showing sampling point location	ns, transects, important features, etc.			
Hydrophytic Vegetation Present? Yes No Is the Sampled Area Hydric Soil Present? Yes No X Wetland Hydrology Present? Yes No X	Yes No_X			
Remarks: According to USACE Antecedent Precipitation Tool, climatic conditions were drier than normal. Site of wetland.	does not meet all three criteria and is not in a			
HYDROLOGY				
Wetland Hydrology Indicators: S Primary Indicators (minimum of one is required: check all that apply)	Econdary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) X 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):				
Saturation Present? Yes No X Depth (inches): Wetland Hy	rdrology Present? Yes No X			
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if avai Remarks: Site does not meet wetland hydrology criteria.	ilable:			
ENG FORM 6116-2, JUL 2018	Atlantic and Gulf Coastal Plain – Version 2.			

	Absolute	Dominant	Indicator	
ree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
				Number of Dominant Species That Are OBL, FACW, or FAC:1 (A
i.				Total Number of Dominant Species Across All Strata: 1 (B
5. 5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A
				Prevalence Index worksheet:
3.				Total % Cover of: Multiply by:
		=Total Cover		OBL species x 1 =
50% of total cover:	20%	of total cover:		FACW species x 2 =
apling/Shrub Stratum (Plot size:)			FAC species x 3 =
				FACU species x 4 =
				UPL species x 5 =
				Column Totals: (A)
				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				X 2 - Dominance Test is >50%
				$3 - \text{Prevalence Index is } \leq 3.0^{1}$
·		=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover	20%	of total cover:		
erb Stratum (Plot size: 5')	2078	or total cover.		
Bospolum unilloi	90	Voc	EAC	4
Paspalum pototum		No	EACU	Indicators of hydric soil and wetland hydrology mus
- Paspaium notatum	10	NO	FACU	present, unless disturbed of problematic.
·				Definitions of Four vegetation Strata:
·				Tree – Woody plants, excluding vines, 3 in. (7.6 cm
				height.
				Sapling/Shrub - Woody plants, excluding vines, le
				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
0				Herb – All herbaceous (non-woody) plants, regardle
1				of size, and woody plants less than 3.28 ft tall.
2.				
	100	=Total Cover		Woody Vine - All woody vines greater than 3.28 ft
50% of total cover:	50 20%	of total cover:	20	height.
loody Vine Stratum (Plot size:	_)			
				Hydrophytic
).		=Total Cover		Vegetation
	000/	of total cover:		Present? Yes X No
50% of total cover:	20%			
50% of total cover: Remarks: (If observed, list morphological adap	tations below.)			· — —
50% of total cover: Remarks: (If observed, list morphological adap Site meets hydrophytic vegetation criteria.	tations below.)			
50% of total cover: Remarks: (If observed, list morphological adap Site meets hydrophytic vegetation criteria.	tations below.)			•
50% of total cover: Remarks: (If observed, list morphological adap Site meets hydrophytic vegetation criteria.	tations below.)			•
50% of total cover: _ Remarks: (If observed, list morphological adap Site meets hydrophytic vegetation criteria.	tations below.)			•

SOIL									Sampl	ing Point:	GAR-DP 7
Profile Desc	cription: (Describe	to the dept	th needed to doc	ument ti	he indic	ator or c	onfirm the	absence o	of indicator	s.)	
Depth	Matrix		Redo	ox Featur	res						
(inches)	Color (moist)	%	Color (moist)	%	Туре	Loc ²	Tex	dure	Remarks		KS
0-8	10YR 5/3	96	10YR 5/8	4	С	Μ	Loamy	/Clayey	Prominent redox concentration		oncentrations
8-12	10YR 5/3	92	10YR 5/8	8	С	М	Loamy	/Clayey	Promine	ent redox c	oncentrations
				·							
				·							
¹ Type: C=Ce	oncentration, D=Dep	letion, RM=	Reduced Matrix,	MS=Mas	ked San	d Grains.		² Location: F	PL=Pore Lin	ing, M=Ma	trix.
Hydric Soil	Indicators: (Applica	able to all L	RRs, unless oth	erwise n	oted.)			Indicators 1	or Problem	natic Hydri	c Soils':
Histosol	(A1)		Thin Dark S	Surface (S	59) (LRR Muck (S	(S, I, U) 12)	-	1 cm M	uck (A9) (Li		
Black Hi	stic (A3)		(MI RA 1	105 1 Cm 538 153	Muck (S	12)	-	Coast P	uck (A10) (L Prairie Redo	.KK 5) V (A16)	
Hydroge	on Sulfide (A4)		Loamy Muc	kv Miner	al (F1) (I	RR O)	-	(outsi	ide MLRA 1	50A)	
Stratified	d Lavers (A5)		Loamy Gley	ed Matri	x (F2)			Reduce	d Vertic (F1	8)	
Organic	Bodies (A6) (LRR P	, T, U)	Depleted M	atrix (F3))		-	(outsi	ide MLRA 1	50A, 150E	3)
5 cm Mu	icky Mineral (A7) (LF	RR P, T, U)	Redox Dark	Surface	(F6)		_	Piedmo	nt Floodplai	n Soils (F1	9) (LRR P, T)
Muck Pr	esence (A8) (LRR U)	Depleted Da	ark Surfa	ce (F7)		-	Anomal	ous Bright F	loodplain	Soils (F20)
1 cm Mu	ick (A9) (LRR P, T)		Redox Dep	ressions	(F8)			(MLR	A 153B)		
Depleted	d Below Dark Surface	e (A11)	Marl (F10) (LRR U)			Ked Marent Material (F21)				
Thick Da	ark Surface (A12)	AL DA 460A	Depleted O	chric (F1)	1) (MLR.	A 151)	O. P. T) (outside MI RA 138, 152A in FL, 154)				
Sandy M	lucky Mineral (S1) (RR 0. S)	Umbric Sur	face (F13	3565 (F1 3) (I RR I	2)(LKK) 2 T II)	0, F, 1)	Barrier	Islands I ow	Chroma N	latrix (TS7)
Sandy G	leved Matrix (S4)		Delta Ochri	c (F17) (MLRA 1	51)	-	(MLR	A 153B. 15	3D)	
Sandy R	edox (S5)		Reduced Ve	ertic (F18) (MLRA	150A, 1	50B)	Other (E	Explain in R	emarks)	
Stripped	Matrix (S6)		Piedmont F	loodplain	Soils (F	19) (MLF	RA 149A)				
Dark Su	rface (S7) (LRR P, S	i, T, U)	Anomalous	Bright Fl	oodplain	Soils (F2	20)				
Polyvalu	e Below Surface (S8	3)	(MLRA 1	49A, 153	C, 153D)		³ Indicate	ors of hydro	phytic vege	etation and
(LRR	S, T, U)		Very Shallo	wetland hydrology must be present,							
D. statetter			(MLRA 1	38, 152A	in FL, 1	54)	1	unles	s disturbed	or problem	iatic.
Type:	Layer (if observed):										
Depth (ir	nches):						Hydric	Soil Prese	nt?	Yes	No X
Remarks:											
Site does no	t meet hydric soil crit	teria.									

ENG FORM 6116-2, JUL 2018

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-10-20; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
Project/Site: Bob Anthony Parkway Relocation City/County: Ridgeland / Ma	adison Sampling Date: 8/15/2023
Applicant/Owner: Pearl River Valley Water Supply District	State: MS Sampling Point: GAR-DP 8
Investigator(s): Joe Rujawitz Section, Township, Range: S34	T7N R2E
Landform (hillside, terrace, etc.): swale Local relief (concave, convex, none	e): concave Slope (%): 2
Subregion (LRR or MLRA): LRR P, MLRA 134 Lat: 32.402915° Long: -90.07	74526° Datum: WGS 1984
Soil Map Unit Name: Cascilla-Calhoun association	NWI classification: R5UBFx*
Are climatic / hydrologic conditions on the site typical for this time of year? Yes N	Io X (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circun	nstances" present? Yes No X
Are Vegetation , Soil , or Hydrology 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 Hydric Soil Present? Yes X No within a Wetland? Wetland Hydrology Present? Yes X No Is the Sampled Area	Yes <u>X</u> No
Remarks: According to USACE Antecedent Precipitation Tool, climatic conditions were drier than normal. Site me shows aquatic feature shifted from where wetland actually occurs. DP taken outside NWI wetland featu	eets all three criteria and is in a wetland. *NWI res but is inside the actual delineated wetland.
HYDROLOGY	
Wetland Hydrology Indicators: Sec Primary Indicators (minimum of one is required: check all that apply)	ondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum Moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Saturation Present? Yes X No Depth (inches): 0 Wetland Hydr	ology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if availat	ble:
Remarks: Site meets wetland hydrology criteria.	Atlantia and Culf Constel Blain Marris 2

Tatal Cover Species? Status Dominance Test worksheet: 2				Absolute	Dominant	Indicator	
Number of Dominant Species That Are OBL, FACW, or FAC: Trevalence Index worksheet: Total Yours 50% of total cover: 20% of total cover: PACW species X =	ee Stratum	(Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
Total Number of Dominant Species Species Across All Stratu: Total Cover: Species Across All Stratu: Problematic Hydrophytic Vegetation Problematic Hydrophytic Vegetation fidenators: X 1 - Rapid Test for Hydrophytic Vegetation fidenators: X 1 - Rapid Test for Hydrophytic Vegetation fidenators: X 1 - Rapid Test for Hydrophytic Vegetation fidenators: X 1 - Rapid Test for Hydrophytic Vegetation fidenators: X 1 - Rapid Test for Hydrophytic Vegetation fidenators: X 1 - Rapid Test for Hydrophytic Vegetation fidenators: X 1 - Rapid Test for Hydrophytic Vegetation fidenators: Soften thexandra 5 Fibrating fidena							Number of Dominant Species That Are OBL, FACW, or FAC:
Prevent of Dominant Species That Are OBL, FACW, or FAC: S0% of total cover: S0% of total cover: 20% of total cover: 2							Total Number of Dominant Species Across All Strata:(
Prevalence Index worksheet: Multiply by: 50% of total cover: 20% of total cover: apling/Shrub Stratum (Plot size:)				·			Percent of Dominant Species That Are OBL, FACW, or FAC:
							Prevalence Index worksheet:
==Total Cover OBL species x 1 =							Total % Cover of: Multiply by:
50% of total cover: 20% of total cover: FACW species x 2 = apling/Shrub Stratum (Plot size:) FACU species x 3 =				- <u> </u>	=Total Cover		OBL species x 1 =
ppling/Shrub Stratum (Plot size:)		50% of tota	al cover:	20%	of total cover:		FACW species x 2 =
FACU species x 4 = UPL species x 5 = Column Totals: (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation Software 50% of total cover:	pling/Shrub S	Stratum (Plot size:)			FAC species x 3 =
UPL species x 5 = Column Totals: (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 50% of total cover: 20% of total cover: 20% of total cover: 20% of total cover: 1 Problematic Hydrophytic Vegetation 1 (Exp <i>Finibritshis dichotana</i> 5 <i>Cyperus strigosus</i> 5 Sinder Test and the state Tree - Woody plants, excluding vines, 3 in. (7, more in diameter at breast height (DBH), regar height. Sapting/Shrub – Woody plants, excluding vines, 3 in. (7, more in diameter at breast height (DBH), regar height. Sapting/Shrub – Woody plants, excluding vines, 3 in. (7, more in diameter at breast height (DBH), regar height. Sapting/Shrub – Woody plants, excluding vines, 3 in. (7, more in diameter at breast height (DBH), regar height. Sapting/Shrub – Woody plants, excluding vines, 3 in. (7, more in diameter at breast height (DBH), regar height. Sapting/Shrub – Woody plants, excluding vines, 3 in. (7, more in diameter at breast height (DBH), regar height. Sapting/Shrub – Woody plants, excluding vines, 3 in. (7, more in diameter at breast height (DBH), regar height. Sapting/Shrub – Woody plants, excluding vines, 3 in. (7, more in diameter at breast height (DBH), regar height. Sapting Shrub – Mit cover:				•			FACU species x 4 =
Column Totals:							UPL species x 5 =
Prevalence Index = BiA = Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 50% of total cover: 20% 20% of total cover:							Column Totals: (A)
Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation 50% of total cover: 20% of total cover: 50% of total cover: 20% of total cover: 1 7 1 80 Yes OBL 1 1 1 7 1 80 Yes OBL 1 1 Cyperus strigosus 5 No FACW Definitions of Four Vegetation Strate: Tree - Woody plants, excluding vines, 3 in. (7, nore in diameter at breast height. Sapling/Shrub - Woody plants, excluding vines, 3 in. (7, nore in diameter at breast height. Sapling/Shrub - Woody plants, excluding vines, 3 in. (7, nore in diameter at breast height. Sapling/Shrub - Woody plants, excluding vines, 3 in. (7, nore in diameter at breast height. Sapling/Shrub - Woody plants, excluding vines, 3 in. (7, nore in diameter at breast height. Sody Vine Stratum (Plot size: 90 =Total Cover 90 =Total Cover 90 =Total Cover 90% of total cover: 18 90% of total cover: 20% of total cover: 90% of total cov							Prevalence Index = B/A =
							Hydrophytic Vegetation Indicators:
2 - Dominance Test is >50% 50% of total cover: 20% of total cover: 200							X 1 - Rapid Test for Hydrophytic Vegetation
3 - Prevalence Index is 5.01 50% of total cover: 20% of t							2 - Dominance Test is >50%
=Total Cover Problematic Hydrophylic Vegetation ¹ (Exp 50% of total cover: 20% of total cover: 20% of total cover: 20% of total cover: 20% of total cover: 20% of total cover: Problematic Hydrophylic Vegetation ¹ (Exp <i>i</i> Indicators of hydric soil and wetland hydrology <i>present</i> , unless disturbed or problematic. <i>Cyperus strigosus</i> 5 No FACW Tree – Woody plants, excluding vines, 3 in. (7. more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vines, 3 in. (7. more in diameter at breast height (DBH), regar 90 =Total Cover 90 =Total Cover 50% of total cover: 18 90 =Total Cover 50% of total cover: 20% of total cover: 50% of total cover: 20% of total cover: 50% of total cover: 20% of total cover: 90 =Total Cover 90% of total cover: 20% of total cover: <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3 - Prevalence Index is ≤3.0¹</td>							3 - Prevalence Index is ≤3.0 ¹
50% of total cover:					=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
b3 Statum (Plot size:5)		50% of tot	al cover:	20%	of total cover:		(,,,,
Usersia hexandra 0 Yes OBL Imbristylis dichotoma 5 No OBL Cyperus strigosus 5 No FACW Definitions of Four Vegetation Strata: Tree - Woody plants, excluding vines, 3 in. (7, more in diameter at breast height (DBH), regar height. Sapling/Shrub - Woody plants, excluding vines, 3 in. (7, more in diameter at breast height (DBH), regar height. Sapling/Shrub - Woody plants, excluding vines fisturbed or problematic. 90 =Total Cover 90 =Total Cover 50% of total cover: 18 Hydrophytic Yegatation 70% of total cover: 20% of total cover: 10 20% of total cover: 18 Hydrophytic Yegatation Yindicator cover 90% 90% 90% 90% 90% 90% 90% 90% 90% 90% 90% 90% 90% 90% 90% 90% 90%	rh Stratum	(Plot size: 5'	1 COVEI.	2078	or total cover.		
Let is a fink and a 00 1es ODE Fink bristylis dichotoma 5 No OBL Cyperus strigosus 5 No FACW Sector 5 No FACW Tree - Woody plants, excluding vines, 3 in. (7, more in diameter at breast height (DBH), regar height. Sapling/Shrub - Woody plants, excluding vines, 3 in. (7, more in diameter at breast height (DBH), regar height. Sapling/Shrub - Woody plants, excluding vines	Looreia hov	(i lot size. 0	/	80	Voc	ORI	
Improving the bologinal of the second sec	Eimbriotulio	dichotomo		5	No		'Indicators of hydric soil and wetland hydrology mu
Cyperius strigosus 5 No PACW Definitions of Pour vegetation strate: Image: Image	Currence et	ucholoma			No	COBL COBL	present, unless disturbed of problematic.
Tree - Woody plants, excluding vines, 3 in. (7. more in diameter at breast height (DBH), regar height. Sapling/Shrub - Woody plants, excluding vine than 3 in. DBH and greater than 3.28 ft (1 m) to than 3 in. DBH and greater than 3.28 ft (1 m) to than 3 in. DBH and greater than 3.28 ft tall.	Cyperus su	igosus			INO	FACW	Definitions of Four Vegetation Strata:
Image: Solution of the indicated at oreast height (Dorf), tegal Image: Solution of the indicated at oreast height (Dorf), tegal Image: Solution of the indicated at oreast height (Dorf), tegal Image: Solution of the indicated at oreast height (Dorf), tegal Image: Solution of the indicated at oreast height (Dorf), tegal Image: Solution of the indicated at oreast height (Dorf), tegal Image: Solution of the indicated at oreast height (Dorf), tegal Image: Solution of the indicated at oreast height (Dorf), tegal Image: Solution of the indicated at oreast height (Dorf), tegal Image: Solution of the indicated at oreast height (Dorf), tegal Image: Solution of the indicated at oreast height (Dorf), tegal Image: Solution of the indicated at oreast height (Dorf), tegal Image: Solution of the indicated at oreast height (Dorf), tegal Image: Solution of the indicated at oreast height (Dorf) proves (Image: Solution or the indicated at oreast height (Dorf) Image: Solution or the indicated at oreast height (Dorf) proves (Image: Solution or the indicated at oreast height (Dorf) proves (Image: Solution or the indicated at oreast height (Dorf) proves (Image: Solution or the indicated at oreast height (Dorf) proves (Image: Solution or the indicated at oreast height (Dorf) proves (Image: Solution or the indicated at oreast height (Dorf) proves (Image: Solution or the indicated at oreast height (Dorf) proves (Image: Solution or the indicated at oreast height (Dorf) proves (Image: Solution or theindicated at or the indicated at oreast (Im							Tree – Woody plants, excluding vines, 3 in. (7.6 ci
Sapling/Shrub – Woody plants, excluding vine than 3 in. DBH and greater than 3.28 ft (1 m) to than 3 in. DBH and greater than 3.28 ft (1 m) to than 3 in. DBH and greater than 3.28 ft (1 m) to than 3 in. DBH and greater than 3.28 ft tall. 90 =Total Cover 50% of total cover: 18 00 >Total Cover 00 >Total Cover 10 Woody Vine - All woody vines greater than 3.3 height. 00 Yine Stratum (Plot size: 0							height.
Sapling/Shrub – Woody plants, excluding vine than 3 in. DBH and greater than 3.28 ft (1 m) to than 3 in. DBH and greater than 3.28 ft (1 m) to than 3 in. DBH and greater than 3.28 ft (1 m) to than 3 in. DBH and greater than 3.28 ft (1 m) to than 3 in. DBH and greater than 3.28 ft (1 m) to than 3 in. DBH and greater than 3.28 ft tall. 90 =Total Cover 50% of total cover: 18 90 =Total Cover 50% of total cover: 18 90 =Total Cover 18 Woody Vine – All woody vines greater than 3.1 height. 90 =Total Cover 18 Hydrophytic 90 =Total Cover 19 Hydrophytic 19 Independent of total cover: 10 20% of total cover: Present? 10 20% of total cover: Present? 10 10 Independent of total cover: 10 20% of total cover: Pre							-
than 3 in. DBH and greater than 3.28 ft (1 m) to that a set in the							Sapling/Shrub - Woody plants, excluding vines, I
Herb – All herbaceous (non-woody) plants, reg of size, and woody plants less than 3.28 ft tall. 90 =Total Cover 50% of total cover: 45 20% of total cover: 18 woody Vine – All woody vines greater than 3. height. body Vine Stratum (Plot size:							than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Herb – All herbaceous (non-woody) plants, reg of size, and woody plants less than 3.28 ft tall. 90 =Total Cover 50% of total cover: 45 20% of total cover: 18 woody Vine – All woody vines greater than 3. height. body Vine Stratum (Plot size:							
							Herb - All herbaceous (non-woody) plants, regard
90 =Total Cover 50% of total cover: 45 20% of total cover: 18 body Vine Stratum (Plot size: 0 - - - <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>of size, and woody plants less than 3.28 ft tall.</td>							of size, and woody plants less than 3.28 ft tall.
90 =Total Cover Woody Vine – All woody vines greater than 3. height. 50% of total cover: 45 20% of total cover: 18 body Vine Stratum (Plot size:)							
50% of total cover: 45 20% of total cover: 18 pody Vine Stratum (Plot size:)				90	=Total Cover		Woody Vine – All woody vines greater than 3.28 f
body Vine Stratum (Plot size:)		50% of tota	al cover:	45 20%	of total cover:	18	height.
	ody Vine Str	atum (Plot size:)				
=Total Cover Hydrophytic 50% of total cover: 20% of total cover: Present? Yes X No marks: (If observed, list morphological adaptations below.) e meets hydrophytic vegetation criteria.							
=Total Cover Hydrophytic 50% of total cover: 20% of total cover: Present? Yes_X wmarks: (If observed, list morphological adaptations below.) e meets hydrophytic vegetation criteria.							
=Total Cover Vegetation 50% of total cover: 20% of total cover: Present? Yes X No emarks: (If observed, list morphological adaptations below.) te meets hydrophytic vegetation criteria.							Hydrophytic
50% of total cover: 20% of total cover: Present? Yes X No emarks: (If observed, list morphological adaptations below.) te meets hydrophytic vegetation criteria.					=Total Cover		Vegetation
emarks: (If observed, list morphological adaptations below.) Le meets hydrophytic vegetation criteria.		50% of tota	al cover:	20%	of total cover:		Present? Yes X No
te meets hydrophytic vegetation criteria.	marke: (If oh	served list morpholo	nical adaptati	ions below)			
	e meets hvdr	ophytic vegetation crit	eria.	ions below.)			
	o mooto nyan	ophyto regetation on	ond.				

SOIL							Sampling Point: GAR-	-DP 8
Profile Desc	ription: (Describe	to the dept	h needed to doo	ument the indic	ator or co	onfirm the absence of	indicators.)	
Depth	Matrix		Rede	ox Features	2			
(inches)	Color (moist)	%	Color (moist)	% Type	Loc ²	Texture	Remarks	
0-8	Gley1 5/5GY	100				Loamy/Clayey		
				·				
				· — —				
				·				
				·				
¹ Type: C=Co	oncentration, D=Dep	letion, RM=	Reduced Matrix,	MS=Masked San	d Grains.	² Location: Pl	L=Pore Lining, M=Matrix.	
Hydric Soil I	ndicators: (Applica	ble to all L	RRs, unless oth	erwise noted.)		Indicators for	or Problematic Hydric Soils ³	':
Histosol	(A1)		Thin Dark S	Surface (S9) (LRF	t S, T, U)	1 cm Mu	ck (A9) (LRR O)	
Histic Ep	ipedon (A2)		Barrier Islar	nds 1 cm Muck (S	12)	2 cm Mu	ck (A10) (LRR S)	
Black His	stic (A3)		(MLRA 1	53B, 153D)		Coast Pr	airie Redox (A16)	
Hydroger	n Sulfide (A4)		Loamy Muc	ky Mineral (F1) (I	RR O)	(outsic	le MLRA 150A)	
Stratified	Layers (A5)		X Loamy Gley	/ed Matrix (F2)		Reduced	Vertic (F18)	
Organic I	Bodies (A6) (LRR P	T, U)	Depleted M	atrix (F3)		(outsic	le MLRA 150A, 150B)	
5 cm Mu	CKy Mineral (A7) (LF	(R P, I, U)	Redox Dark	Surface (F6)		Pleamon	t Floodplain Solls (F19) (LRR	(P, I)
	esence (A8) (LKK U)	Depleted D	ark Surface (F7)		Anomaio	us Bright Floodplain Solis (F2	:0)
Depleted	Relow Dark Surface	(A11)	Marl (E10)			(WILKA Bod Bor	nt Material (E21)	
Depieted	rk Surface (A12)	(ATT)	Nan (110) (chric (E11) (MLR	A 151)	Ven/ Sha	allow Dark Surface (E22)	
Coast Pr	airie Redox (A16) (N	II RA 150A	Depieted O	nese Masses (F1	2) (I RR (P T) (outsid	e MIRA 138 152Δ in FI 14	54)
Sandy M	ucky Mineral (S1) (L	RR 0. S)	Umbric Sur	face (F13) (LRR	P. T. U)	Barrier Is	ands I ow Chroma Matrix (TS	S7)
Sandy G	leved Matrix (S4)		Delta Ochri	c (F17) (MLRA 1	51)	(MLRA	153B. 153D)	
Sandy R	edox (S5)		Reduced V	ertic (F18) (MLRA	150A, 1	50B) Other (E:	xplain in Remarks)	
Stripped	Matrix (S6)		Piedmont F	loodplain Soils (F	19) (MLR	A 149A)	,	
Dark Sur	face (S7) (LRR P, S	, T, U)	Anomalous	Bright Floodplain	Soils (F2	0)		
Polyvalue	e Below Surface (S8)	(MLRA 1	49A, 153C, 153D)	³ Indicato	rs of hydrophytic vegetation a	nd
(LRR S	S, T, U)		Very Shallo	w Dark Surface (F22)	wetlan	d hydrology must be present,	,
			(MLRA 1	38, 152A in FL, 1	54)	unless	disturbed or problematic.	
Restrictive L	_ayer (if observed):							
Type:								
Depth (in	nches):					Hvdric Soil Presen	t? Yes X No	
Remarks:						.,		
Site meets hy	ydric soil criteria.							

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Other Waters

Wetland - Forested


Madison, Hinds, and Rankin County, Mississippi

Site 5 - Alternative B 2023 USDA National Agricultural Imagery Program

Wetland - Emergent

Wetland - Forested

Open Water

Data Points

Other Waters









U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-10-20; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
Project/Site: Bob Anthony Parkway Relocation City/County: Jackson / Hind	ds Sampling Date: 8/15/2023
Applicant/Owner: Pearl River Valley Water Supply District	State: MS Sampling Point: GAR-DP 15
Investigator(s): Joe Rujawitz Section, Township, Range: S2	T6N R2E
Landform (hillside, terrace, etc.): depression Local relief (concave, convex, none	e): concave Slope (%): 3
Subregion (LRR or MLRA): LRR P, MLRA 134 Lat: 32.399197° Long: -90.0	70107° Datum: WGS 1984
Soil Map Unit Name: Cascilla-Chenneby association	NWI classification: PFO1A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	No X (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturbed? Are "Normal Circuit	mstances" present? Yes No X
Are Vegetation, Soil, or Hydrologynaturally problematic? (If needed, explain	any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations	, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No Is the Sampled Area Hydric Soil Present? Yes X No within a Wetland? Wetland Hydrology Present? Yes X No No	Yes <u>X</u> No
Remarks: According to USACE Antecedent Precipitation Tool, climatic conditions were drier than normal. Site m	eets all three criteria and is in a wetland.
HYDROLOGY	
Set Drimony Indicators: Set	condary Indicators (minimum of two required)
Surface Water (A1) Aquatic Fauna (B13)	Surrace Soll Gracks (B6) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)
X Water Marks (B1) Oxidized Rhizospheres on Living Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Algal Mat or Crust (B4) Thin Muck Surface (C7) X	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum Moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches): Wetland Hvd	rology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if availa	ble:
Descelar	
Remarks: Site meets wetland hydrology criteria.	
ENG FORM 6116-2, JUL 2018	Atlantic and Gulf Coastal Plain – Version 2.0

ree Stratum (Plot size: 30')	Absoluto	Dominant	Indicator	
	% Cover	Species?	Status	Dominance Test worksheet:
Taxodium distichum	30	Yes	OBL	Number of Dominant Species That Are OBL, FACW, or FAC:(A
				Total Number of Dominant Species Across All Strata: (B
				Percent of Dominant Species That Are OBL, FACW, or FAC: (A
				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
	30	=Total Cover		OBL species x 1 =
50% of total cover:	15 20%	of total cover:	6	FACW species x 2 =
apling/Shrub Stratum (Plot size:)			FAC species x 3 =
· · · · · · · · · · · · · · · · · · ·	-			FACU species x 4 =
				UPL species x 5 =
				Column Totals: (A)
				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
				X 1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
				$3 - \text{Prevalence index is } \le 3.0^1$
		-Total Cover		Broblematic Hydrophytic Vegetation ¹ (Explain)
50% of total acuan	20%	- Total Cover		
50% of total cover.	20%	or total cover.		
Annualization of the size: 5°)	50		FACIN	
Arundinaria gigantea	50	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology mu
Saururus cernuus	10	No	OBL	present, unless disturbed or problematic.
				Definitions of Four Vegetation Strata:
				Tree – Woody plants, excluding vines, 3 in, (7.6 cm
				more in diameter at breast height (DBH), regardles
				more in diameter at breast height (DBH), regardles height.
	\equiv			more in diameter at breast height (DBH), regardles height.
				more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, li than 3 in. DBH and greater than 3.28 ft (1 m) tall.
				more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, li than 3 in. DBH and greater than 3.28 ft (1 m) tall.
				more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, li than 3 in. DBH and greater than 3.28 ft (1 m) tall.
				more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, li than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall.
50% of total cover:		=Total Cover		 more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, let than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardl of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft height.
50% of total cover:	 	=Total Cover of total cover:		more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, le than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardl of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft height.
).	 	=Total Cover of total cover:		 more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, let than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft height.
).	 	=Total Cover of total cover:		 more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, let than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft height.
). 50% of total cover: <u>oody Vine Stratum</u> (Plot size:)	 	=Total Cover of total cover:		 more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, let than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft height.
). 50% of total cover: <u>oody Vine Stratum</u> (Plot size:)	 	=Total Cover of total cover:		 more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, let than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft height.
0	 	=Total Cover of total cover:		more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, le than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardl of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft height.
)		=Total Cover of total cover:		 more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, let than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft height. Hydrophytic
)	 	=Total Cover of total cover: =Total Cover		 more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, let than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardl of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft height. Hydrophytic Vegetation

SOIL								s	ampling Point:	GAR-DP 15
Profile Desc	cription: (Describe	to the depth	needed to doc	ument t	he indic	ator or co	onfirm the absence	of indic	ators.)	
Depth	Matrix		Redo	x Featu	res					
(inches)	Color (moist)	%	Color (moist)	%	Туре	Loc ²	Texture		Remai	rks
0-3	10YR 5/3	100					Sandy			
3-10	10YR 5/2	96	10YR 5/8	4	С	м	Sandy	Pro	ominent redox o	concentrations
					·					
					·					
					·			·		
		lotion RM-E	Poducod Matrix	MS-Mor		d Croine	² L conting:	DI -Dor	o Lipipa M=M	atrix
Hydric Soil	Indicators: (Applica	ble to all LF	Reduced Matrix, i	erwise i	noted.)	u Grains.	Indicator	for Pro	blematic Hvdr	ric Soils ³ :
Histosol	(A1)		Thin Dark S	urface (S9) (LRR	S, T, U)	1 cm	Muck (As	9) (LRR O)	
Histic Ep	pipedon (A2)		Barrier Islan	ds 1 cm	Muck (S	12)	2 cm	Muck (A	10) (LRR S)	
Black Hi	stic (A3)		(MLRA 1	53B, 153	3D)		Coast	Prairie F	Redox (A16)	
Hydroge	n Sulfide (A4)		Loamy Muc	ky Miner	ral (F1) (I	.RR 0)	(out	side ML	.RA 150A)	
Stratified	d Layers (A5)		Loamy Gley	ed Matr	ix (F2)		Reduc	ced Verti	c (F18)	
Organic 5 cm Mi	Bodies (A6) (LRR P,	, T, U)	Depleted Ma	atrix (F3)		(out	side ML	RA 150A, 150	
Muck Pr	esence (A8) (LRR U)	Depleted Dark	ark Surfa	ace (F7)		Anom	alous Br	ight Floodplain	Soils (F20)
1 cm Mu	ick (A9) (LRR P, T)	,	Redox Depr	essions	(F8)		(ML	RA 153E	3)	00110 (1 20)
Depleted	Below Dark Surface	e (A11)	Marl (F10) (LRR U)	. ,		Red F	arent Ma	, aterial (F21)	
Thick Da	ark Surface (A12)		Depleted Oc	chric (F1	1) (MLR	A 151)	Very	Shallow (Dark Surface (F	22)
Coast Pr	rairie Redox (A16) (N	ILRA 150A)	Iron-Mangar	nese Ma	asses (F1	2) (LRR (D, P, T) (out	side ML	RA 138, 152A	in FL, 154)
Sandy N	lucky Mineral (S1) (L	.RR O, S)	Umbric Surf	ace (F1	3) (LRR	P, T, U)	Barrie	r Islands	Low Chroma	Matrix (TS7)
Sandy G	Bleyed Matrix (S4)		Delta Ochric	; (F17) (51)	(ML	RA 153E	3, 153D)	
X_Sandy R	(edox (S5) Matrix (S6)		Reduced ve	oodolair	b) (MLKA 5 Soile /E	10) (MI D	Other	(Explain	in Remarks)	
Dark Su	rface (S7) (LRR P. S	. T. U)	Anomalous	Bright F	loodplain	Soils (F2	0)			
Polyvalu	e Below Surface (S8	s)	(MLRA 14	19A, 153	3C, 153D)	³ Indic	ators of h	nydrophytic veg	etation and
(LRR	S, T, U)		Very Shallo	v Dark S	Surface (I	F22)	wet	land hyd	Irology must be	present,
			(MLRA 13	38, 1524	A in FL, 1	54)	unle	ess distu	rbed or probler	natic.
Restrictive I	Layer (if observed):									
Type:										
Depth (ir	nches):						Hydric Soil Pres	sent?	Yes X	No
Remarks:										
Site meets h	ydric soil criteria.									

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Ge See ERDC/EL TR-10-20; the proponent agency is	Ulf Coastal Plain Region is CECW-CO-R OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
Project/Site: Bob Anthony Parkway Relocation	City/County: Jackson / Hinds Sampling Date: 8/15/2023
Applicant/Owner: Pearl River Valley Water Supply District	State: MS Sampling Point: GAR-DP 16
Investigator(s): Loe Rujawitz	ction Townshin Range: S2 T6N R2E
Landform (hilloide torrese etc.) – hilloide	
	I relier (concave, convex, none): none Siope (%): 10
Subregion (LRR or MLRA): LRR P, MLRA 134 Lat: 32.399179°	Long: -90.070079° Datum: WGS 1984
Soil Map Unit Name: Cascilla-Chenneby association	NWI classification: PFO1A
Are climatic / hydrologic conditions on the site typical for this time of year	Yes No X (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly dist	Irbed? Are "Normal Circumstances" present? Yes No X
Are Vegetation , Soil , or Hydrology naturally probler	natic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sa	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	
Remarks: According to USACE Antecedent Precipitation Tool, climatic conditions wetland.	vere drier than normal. Site does not meet alll three criteria and is not in a
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required: check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Mari Deposits (B15) (L	C(C1) Moss Trim Lines (B16)
Water Marks (B1) Oxidized Rhizosphere	s on Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduced	ron (C4) Cravfish Burrows (C8)
Drift Deposits (B3) Recent Iron Reduction	in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Rem	arks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	X FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum Moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):
Water Table Present? Yes No X Depth (inches):
Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No _X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), if available:
Remarks: No wetland hydrology indicators observed.	
ENG FORM 6116-2, JUL 2018	Atlantic and Gulf Coastal Plain – Version 2.0

ee Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Celtis laevigata	40	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: (A
				Total Number of Dominant Species Across All Strata: 2 (E
				Percent of Dominant Species That Are OBL, FACW, or FAC:100.0% (A
				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
	40	=Total Cover		OBL species x 1 =
50% of total cover:	20 20%	of total cover:	8	FACW species x 2 =
pling/Shrub Stratum (Plot size:)			FAC species x 3 =
· · ·	·			FACU species x 4 =
				UPL species x 5 =
				Column Totals: (A)
				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				X 2 Dominance Test is >50%
				$\frac{1}{2}$ - Dominance results > 50%
		-Tatal Cause		Desklamatic Underskutic Vacatation ¹ (Europein)
		- Total Cover		Problematic Hydrophytic Vegetation (Explain)
r <u>b Stratum</u> (Plot size: <u>5'</u>) Arundinaria gigantea	60	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology mu
				present, unless disturbed or problematic.
				Definitions of Four Vegetation Strata:
				Tree - Woody plants, excluding vines, 3 in. (7.6 cr
				more in diameter at breast height (DBH), regardles
				height.
				Sapling/Shrub – Woody plants, excluding vines, le
				than 3 m. DBH and greater than 3.28 ft (1 m) tail.
·				Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall.
	60	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft
50% of total cover:	30 20%	of total cover:	12	neight.
oody Vine Stratum (Plot size:)				
				Hydrophytic
		=Total Cover		Hydrophytic Vegetation
50% of total cover:		=Total Cover of total cover:		Hydrophytic Vegetation Present? Yes X No
50% of total cover: emarks: (If observed, list morphological adaptation ie meets hydrophytic vegetation criteria.	20%	=Total Cover of total cover:	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No
50% of total cover:	20%	=Total Cover of total cover:	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No

SOIL									Sampling Poi	nt: GAR	-DP 16
Profile Desc	ription: (Describe	to the dept	h needed to doc	ument t	the indic	ator or co	onfirm th	e absence of i	ndicators.)		
Depth	Matrix		Redo	x Featu	res						
(inches)	Color (moist)	%	Color (moist)	%	Туре	Loc ²	Te	exture	Rer	narks	
0-2	10YR 5/2	100					S	andy			
2-12	10YR 5/3	98	10YR 3/6	2	С	М	S	andy	Distinct redox	concentra	ations
		·									
		·									
17								2	Des liste M		
Type: C=Co	oncentration, D=Dep	etion, RM=	Reduced Matrix, I	MS=Mas	sked San	d Grains.		"Location: PL=	Problematic H	Matrix.	_ ³ .
Histosol	(A1)		Thin Dark S	urface (S9) (LRF	S. T. U)		1 cm Muck	(A9) (LRR O)		
Histic Ep	ipedon (A2)		Barrier Islan	ds 1 cm	Muck (S	12)		2 cm Muck	(A10) (LRR S)		
Black Hi	stic (A3)		(MLRA 1	53B, 153	3D)	,		Coast Prai	irie Redox (A16)		
Hydroge	n Sulfide (A4)		Loamy Muc	ky Mine	ral (F1) (I	RR O)		(outside	MLRA 150A)		
Stratified	l Layers (A5)		Loamy Gley	ed Matr	ix (F2)			Reduced \	/ertic (F18)		
Organic	Bodies (A6) (LRR P	, T, U)	Depleted Ma	atrix (F3)			(outside	MLRA 150A, 1	50B)	
5 cm Mu	cky Mineral (A7) (LF	RR P, T, U)	Redox Dark	Surface	∋ (F6)			Piedmont	Floodplain Soils	(F19) (LR	R P, T)
Muck Pro	esence (A8) (LRR U)	Depleted Da	ark Surfa	ace (F7)			Anomalou	s Bright Floodpla	ain Soils (F	-20)
T cm Mu	CK (A9) (LKK P, T) Bolow Dark Surface	0 (011)	Mort (E10) (essions	(F8)				153B) at Material (E21)		
Depleted	rk Surface (A12)	e (ATT)	Wan (F10) (chric (E1	(1) (MLR	A 151)		Keu Paler	ow Dark Surface	(F22)	
Coast Pr	airie Redox (A16) (N	(LRA 150A)	Iron-Manga	nese Ma	asses (F1	2) (LRR (O. P. T)	(outside	MLRA 138, 152	2A in FL. 1	154)
Sandy M	lucky Mineral (S1) (L	.RR O, S)	Umbric Surf	ace (F1	3) (LRR	P, T, U)	-,.,.,	Barrier Isla	ands Low Chrom	a Matrix (TS7)
Sandy G	leyed Matrix (S4)		Delta Ochrid	(F17) (MLRA 1	51)		(MLRA	153B, 153D)	,	,
Sandy R	edox (S5)		Reduced Ve	ertic (F1	8) (MLRA	150A, 1	50B)	Other (Exp	plain in Remarks)	
Stripped	Matrix (S6)		Piedmont Fl	oodplaiı	n Soils (F	19) (MLR	RA 149A)				
Dark Su	face (S7) (LRR P, S	i, T, U)	Anomalous	Bright F	loodplain	Soils (F2	20)				
Polyvalu	e Below Surface (S8	3)	(MLRA 14	19A, 153	3C, 153D)		³ Indicators	of hydrophytic v	regetation	and
(LRR :	S, T, U)		Very Shallov	w Dark S	Surface (-22)		wetland	hydrology must	be presen	it,
De etristice I	even (if a become d)		(MLRA 13	38, 1524	A in FL, 1	54)	-	unless o	disturbed or prob	lematic.	
Type:	_ayer (if observed):										
Depth (ir	nches):						Hydri	c Soil Present	? Yes	No	х
Remarks:											
Site does not	t meet hydric soil crit	teria.									



Project: Bob Anthony Parkwa	ay Relocation	City/County/State: Jackson/Hi	nds/Mississippi
Investigator(s): Joe Rujawit	z	Lat: 32.399102° Long: _90.069104°	Sample Location ID: OW9
Applicant/Owner: Pearl Riv	ver Valley Water Supply District	Date:	08/15/2023
Reason for Survey: Wetland	1 Delineation		
River Basin/HUC Number	:031800020601	Tributary Name (if known):	Unknown stream
Size of Watershed: 20,913.:	58 Acres	Nearest TNW: Pearl Diver	
Size of Drainage Area: n/a.	Relief channel	real River	
	Tributary subsystem:		
	Ephemeral	Intermittent	Perennial
TRIBUTARY	Tributary flows directly inte Explain: No. OW 9 flows into	o a TNW? OW8 and a pond before connecting	g with Pearl River.
CHARACTERIZATION	Distance to nearest TNW:River Miles:0.33A	erial Miles: 0.29	
	Describe flow route to TNW	Tributary flows east into OW8, t Pearl River.	hence into riparian pond; thence into
	Tributary is (natural / artific Explain: Natural. Tributary is a	ial / manipulated): a relief channel of adjacent wetland	l during flood events.
WEATHER CONDITIONS	Current: rain (steady rain) showers (intermittent) cloud cover (%) Clear/ sunny air temperature: <u>86</u> (°F)	Has there been heavy ra Average Rainfall:	in in the last 7 days? No
	Comment:		
	Predominant surrounding l	anduse:	
	✓ Forest Co	mmercial Other (Explain):
WATERSHED FEATURES	Field/Pasture	dustrial	
	Agricultural Re	sidential	

TRIBUTARY FEATURES	Estimated reach length: 77 (ft.) Estimated channel width: 3 (ft.) Estimated channel depth: 0.25 (ft.) Estimated slope of banks: Substrate: vertical 2:1 3:1 4:1 greater Image: Comparison of the state
TRIBUTARY CONDITION	 Tributary has (defined bed and banks / OHWM): Explain: Defined bed and banks Bank stability (highly eroded, sloughing banks, etc): Explain: Bank appears stable. Riffle / Run / Pool complex: No Explain: No flow observed.
FLOW CONDITIONS	Tributary geometry (relatively straight, meandering, other): Explain: Relatively straight. Current flow is (discrete, confined, overland sheet flow, etc): Explain: No flow on day of investigation Average flow events per year: ?
VEGETATION	Approximate width of riparian buffer: n/a (ft.) Dominant species present (top bank / buffer): Triadica sebifera, Saururus cernuus, Arundinaria gigantea, Persicaria puncata Aquatic vegetation present: No Comment: No



Project: Bob Anthony Parkwa	ay Relocation	City/County/Stat	e: Jackson/Hinds	/Mississippi
Investigator(s): Joe Rujawitz	2	Lat: 32.398963° Long: _90.068826°		Sample Location ID: OW8
Applicant/Owner: Pearl Riv	ver Valley Water Supply District	Date:	08	/15/2023
Reason for Survey: Wetland	1 Delineation			
River Basin/HUC Number	:031800020601	Tributary Name	(if known): _{Ur}	known stream
Size of Watershed: 20,913.5	58 Acres	Noorost TNW: -		
Size of Drainage Area: App	prox. 339 Acres	Nearest TNW: P	earl River	
	Tuibutowy subsystems			
	Ephemeral	Intermittent	✓	Perennial
TRIBUTARY	Tributary flows directly int Explain: No. OW8 flows into	o a TNW? a pond before connec	ting with Pearl R	iver.
CHARACTERIZATION	Distance to nearest TNW: River Miles: 0.27 A	Aerial Miles: 0.	23	ion nandi thansa inta Daarl Divar
	Describe flow route to TNW	V:	uneast into ripar	an pond, mence mio rean Kiver.
	Explain: The tributary has bee into Pearl River	ial / manipulated): n created artificially t	o drain the ditche	es along Ross Barnette Reservoir
WEATHER CONDITIONS	Current: rain (steady rain) showers (intermittent) cloud cover(%) clear/ sunny air temperature:86(°F)	Has there be Average	en heavy rain i Rainfall:	in the last 7 days? No 0 (in.)
	Comment:			
	Predominant surrounding l	anduse:		
WATERCHER	✓ Forest Co	ommercial	✓ Other (Exp	blain):
WATERSHED FEATURES	Field/Pasture Inc	dustrial	Area around sta associated with and utility ease	ream is maintained ROW Spillway Road, Barnett Reservoir, ment.
	Agricultural Re	esidential		

TRIBUTARY FEATURES	Estimated reach length: 77 (ft.) Estimated channel width: 3 (ft.) Estimated channel depth: 0.25 (ft.) Estimated slope of banks: Substrate: vertical 2:1 3:1 4:1 greater Image: Comparison of the state
TRIBUTARY CONDITION	 Tributary has (defined bed and banks / OHWM): Explain: Defined bed and banks Bank stability (highly eroded, sloughing banks, etc): Explain: Bank appears stable. Riffle / Run / Pool complex: No Explain: No flow observed.
FLOW CONDITIONS	Tributary geometry (relatively straight, meandering, other): Explain: Relatively straight. Current flow is (discrete, confined, overland sheet flow, etc): Explain: No flow on day of investigation Average flow events per year: ?
VEGETATION	Approximate width of riparian buffer: n/a (ft.) Dominant species present (top bank / buffer): Triadica sebifera, Saururus cernuus, Arundinaria gigantea, Persicaria puncata Aquatic vegetation present: No Comment: No



Project/Site: Bob Anthony Parkway Relocation City/County: Brandon / Rankin Sampling Date: &1/5/2023 Applicant/Owner: Pearl River Valley Water Supply District State: MS Sampling Point: GAR-OP 11 Investigator(s): Joe Rugwitz Section, Township, Range: S2 TEN R2E Landform (hillside, terrace, etc.): depression Local relief (concave, corrvex, none): Concave Slope (%): 4 Soli Map Unit Name: Casciliant Attabutia association, frequently flooded NWI classification: n/a Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.) Are Vegetation , Soli , or Hydrology ajgnificantly disturbed? Are "Normal Circumstances" present? Yes No X Hydrophytic Vegetation Present? Yes X No Is the Sampled Area within a Wetland? Yes X No
Applicant/Owner: Peart River Valley Water Supply District State: MS Sampling Point: GAR-DP 11 Investigator(s): Joe Rujawitz Section, Township, Range: S2 T6N R2E Landform (hilliside, terrace, etc.): depression Local relief (concave, convex, none): Concave Slope (%): 4 Subregion (LRR or MLRA): LRR P, MLRA 134 Lat: 32.397483* Long:-90.067581* Datum: WGS 1984 Soli Map Unit Name: Cascilla-Arkabutita association, frequently flooded NWI classification: n/a Are climatic / hydrologic conditions on the site typical for this time of year? Yes
Investigator(s): Joe Rujawitz Section, Township, Range: S2 T6N R2E Landform (hillside, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): 4 Subregion (LRR or MLRA): LER P, MLRA 134 Lat: 32.397483* Long -90.067581* Datum: WGS 1984 Soil Map Unit Name: Cascilla-Arkabutla association, frequently flooded NWI classification: n/a Are climatic / hydrologic conditions on the site typical for this time of year? Yes No_X (ff no, explain in Remarks.) Are Vegetation , Soil or Hydrology naturally problematic? (if needed, explain any answers in Remarks.) No_X SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrohytic Vegetation Present? Yes No
Landform (hillside, terrace, etc.): depression Local relief (concave, convex, none): Concave Slope (%): 4 Subregion (LRR or MLRA): LRR P, MLRA 134 Lat: 32.397483* Long: -90.067581* Datum: WGS 1984 Soil Map Unit Name: Cascilla-Artabuttla association, frequently flooded NWI classification: n/a Are dimitic / hydrologic conditions on the site typical for this time of year? Yes No X No Xare Vegetation _, or Hydrology significantly disturbed? Are Normal Circumstances* present? Yes No X SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes X
Subregion (LRR or MLRA): LRR P, MLRA 134 Lat: 32.397483° Long: -90.067581° Datum: WGS 1984 Soil Map Unit Name: Cascilla-Arkabutia association, frequently flooded NWI classification: n/a Are dimatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.) Are Vegetation , soil , or Hydrology
Soil Map Unit Name: Cascilla-Arkabutla association, frequently flooded NWI classification: n/a Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X. (if no, explain in Remarks.) Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No X. Are Vegetation , Soil , or Hydrology 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
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _X (If no, explain in Remarks.) Are Vegetation, Soil, or Hydrology
Are Vegetation, Soil, or Hydrology
Are Vegetation, Soil, or Hydrologynaturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes X No
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophylic Vegetation Present? Yes No is the Sampled Area within a Wetland? Yes No Hydrophylic Vegetation Present? Yes X No within a Wetland? Yes X No Remarks: According to USACE Antecedent Precipitation Tool, climatic conditions were drier than normal. Site meets all three criteria and is in a wetland. HYDROLOGY Primary Indicators: Surface Soil Cracks (B6) Surface Soil Cracks (B6) <t< td=""></t<>
Hydrophytic Vegetation Present? Yes X No Is the Sampled Area within a Wetland? Yes X No Wetland Hydrology Present? Yes X No is the Sampled Area within a Wetland? Yes X No Remarks: According to USACE Antecedent Precipitation Tool, climatic conditions were drier than normal. Site meets all three criteria and is in a wetland. HYDROLOGY Surface Mater (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) Surface (B16) X Drainage Patterns (B10) Math Deposits (B15) Marl Deposits (B15) (LRR U) Moss Trim Lines (B16) Dry.Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced Iron (C4) Dry.Season Water Table (C2) Crayfish Burrows (C8) Sturation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Satlawation (Visible on Aerial Imagery (C9) Shallow Aquitard (D3) Algal Mat or Crust (B4) Thin Muck Surface (C7) Shallow Aquitard (D3) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Other (Explain in Remarks) Splangum Moss (D8) (LRR T, U) Splangum Moss (D8) (LRR T, U)
Remarks: According to USACE Antecedent Precipitation Tool, climatic conditions were drier than normal. Site meets all three criteria and is in a wetland. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Aquatic Fauna (B13) High Water Table (A2) Marl Deposits (B15) (LRR U) Saturation (A3) Hydrogen Sulfide Odor (C1) Water Marks (B1) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) Presence of Reduced Iron (C4) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Thin Muck Surface (C7) Iron Deposits (B5) Other (Explain in Remarks) X Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3) Y Indet Observations: Sphagnum Moss (D8) (LRR T, U)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6)
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required: check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) High Water Table (A2) Marl Deposits (B15) (LRR U) X Drainage Patterns (B10) Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Water Marks (B1) Oxidized Rhizospheres on Living Roots (C3) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) X Geomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) X Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Sphagnum Moss (D8) (LRR T, U)
Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Marl Deposits (B15) (LRR U) X Drainage Patterns (B10) Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Water Marks (B1) Oxidized Rhizospheres on Living Roots (C3) Dry-Season Water Table (C2) Sediment Deposits (B3) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation (Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) X Geomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) X Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) Sphagnum Moss (D8) (LRR T, U) Field Observations: Surface Water Present? Yes No X Depth (inches):
Inight Value Fable (A2) Initial Deposits (6.13) (LRR T, U) Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Water Marks (B1) Oxidized Rhizospheres on Living Roots (C3) Dry-Season Water Table (C2) Sediment Deposits (B3) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) X Geomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) X Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Sphagnum Moss (D8) (LRR T, U)
Water Marks (B1) Oxidized Rhizospheres on Living Roots (C3) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) X Geomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) X Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Sphagnum Moss (D8) (LRR T, U)
Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) X Geomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) X Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Sphagnum Moss (D8) (LRR T, U)
Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) XGeomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) X Inundation Visible on Aerial Imagery (B7)
Algal Mat or Crust (B4) Thin Muck Surface (C7) X Geomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) X Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Sphagnum Moss (D8) (LRR T, U) Field Observations: Surface Water Present? Yes No X Depth (inches):
Water-Stained Leaves (B9)
Field Observations: Surface Water Present? Yes No _X Depth (inches):
Surface Water Present? Yes No X Depth (inches):
Water Table Present? Yes No X Depth (inches):
Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks: Site meets wetland hydrology criteria

ee Stratum (Plot size: 30')		Dominant	Indicator	
/	% Cover	Species?	Status	Dominance Test worksheet:
Acer saccharinum	55	Yes	FAC	Number of Dominant Species
Triadica sebifera	30	Yes	FAC	That Are OBL, FACW, or FAC: 3 (A
Taxodium distichum	10	No	OBL	Total Number of Dominant
				Species Across All Strata: 3 (B
				Barport of Dominant Species
				That Are OBL. FACW, or FAC: 100.0% (A
				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
		-Total Causer		
	90	-Total Cover	40	
50% of total cover.	48 20%	or total cover:	19	FAC vv species x 2 =
Oling/Shrub Stratum (Plot size:)			FAC species x 3 =
				FACU species x 4 =
				UPL species x 5 =
				Column Totals: (A)
				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				X 2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3.0 ¹
50% - 6 + 1-1		=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20%	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: <u>b Stratum</u> (Plot size:) <i>Triadica sebifera</i>	20%	=Total Cover of total cover: Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20%	=Total Cover of total cover: Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology mus present, unless disturbed or problematic.
50% of total cover:) <u>b Stratum</u> (Plot size:) <i>Triadica sebifera</i>	20% 5	=Total Cover of total cover: Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology mus present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
50% of total cover:) <u>b Stratum</u> (Plot size:) <i>Triadica sebifera</i>	20% 5	=Total Cover of total cover: Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology mus present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm
50% of total cover:) <u>b Stratum</u> (Plot size:) Triadica sebifera	20% 5 	=Total Cover of total cover: Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology mus present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless
50% of total cover:	20%	=Total Cover of total cover: Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology mus present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height.
50% of total cover:	20%	=Total Cover of total cover: Yes 	FAC	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology muspresent, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height.
50% of total cover:	20%	=Total Cover of total cover: Yes 	FAC	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology muspresent, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height. Sapling/Shrub – Woody plants, excluding vines, let
50% of total cover:	20%	=Total Cover of total cover: Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology mus present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height. Sapling/Shrub – Woody plants, excluding vines, le than 3 in. DBH and greater than 3.28 ft (1 m) tall.
50% of total cover:	20%	=Total Cover of total cover: Yes 	FAC	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology mus present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height. Sapling/Shrub – Woody plants, excluding vines, le than 3 in. DBH and greater than 3.28 ft (1 m) tall.
50% of total cover:	 	=Total Cover of total cover: Yes 	FAC	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology muspresent, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height. Sapling/Shrub – Woody plants, excluding vines, let than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless
50% of total cover:	20%	=Total Cover of total cover: Yes 		Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology muspresent, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height. Sapling/Shrub – Woody plants, excluding vines, let than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
50% of total cover:	20%	-Total Cover Yes		Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology mus present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height. Sapling/Shrub – Woody plants, excluding vines, le than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.
50% of total cover:	20%	=Total Cover of total cover: Yes Yes = Total Cover	FAC	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology mu- present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles- height. Sapling/Shrub – Woody plants, excluding vines, le than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft height
50% of total cover:	20%	=Total Cover of total cover: <u>Yes</u> 	FAC	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology muspresent, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height. Sapling/Shrub – Woody plants, excluding vines, let than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft height.
50% of total cover:	20% 5 	=Total Cover of total cover: Yes Yes =Total Cover of total cover:		Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology mus- present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height. Sapling/Shrub – Woody plants, excluding vines, le than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft height.
50% of total cover:	20% 5 	=Total Cover of total cover: <u>Yes</u> 	FAC	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology mup present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height. Sapling/Shrub – Woody plants, excluding vines, let than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft height.
50% of total cover:	20% 5 	=Total Cover of total cover: <u>Yes</u> 		Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology muspresent, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height. Sapling/Shrub – Woody plants, excluding vines, le than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft height.
50% of total cover:	20% 5 	=Total Cover Yes Yes Total cover: Yes Total Cover Total Cover of total cover:		Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology mus present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height. Sapling/Shrub – Woody plants, excluding vines, le than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft height.
50% of total cover:	20% 5 	=Total Cover of total cover: <u>Yes</u> 		Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology muspresent, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height. Sapling/Shrub – Woody plants, excluding vines, let than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft height.
50% of total cover:	20%5	=Total Cover of total cover: <u>Yes</u> 		Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology mus present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height. Sapling/Shrub – Woody plants, excluding vines, le than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft height.
50% of total cover:	20%5	=Total Cover of total cover: <u>Yes</u> = Total Cover of total cover: = Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology mus present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height. Sapling/Shrub – Woody plants, excluding vines, le than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft height.

SOIL								Sampling Point: GAR-DP 11
Profile Desc	cription: (Describe	to the dept	h needed to doc	ument t	he indica	ator or co	onfirm the absence	of indicators.)
Depth	Matrix		Redo	ox Featu	res			
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc ^z	Texture	Remarks
0-2	10YR 5/3	100						
2-12	10YR 5/2	98	10YR 5/8	2	С	М	Sandy	Prominent redox concentrations
	TO THE OFF		101110/0				Juny	, ronment roast concentratione
					· —			
					·			
					·			
¹ Type: C=Ce	oncentration, D=Dep	letion, RM=	Reduced Matrix, I	MS=Mas	ked San	d Grains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applica	ble to all L	RRs, unless oth	erwise r	noted.)		Indicators	for Problematic Hydric Soils ³ :
Histosol	(A1)		Thin Dark S	urface (59) (LRR	(S, T, U)	1 cm M	luck (A9) (LRR O)
Black Hi	stic (A3)		/MI RA 1	53B 153		12)	2 cm w	Prairie Redox (A16)
Hydroge	n Sulfide (A4)		Loamy Muc	kv Miner	al (F1) (L	RR O)	(outs	side MLRA 150A)
Stratified	d Layers (A5)		Loamy Gley	ed Matr	ix (F2)	,	Reduce	ed Vertic (F18)
Organic	Bodies (A6) (LRR P,	T, U)	Depleted M	atrix (F3)		(outs	ide MLRA 150A, 150B)
5 cm Mu	icky Mineral (A7) (LF	R P, T, U)	Redox Dark	Surface	e (F6)		Piedmo	ont Floodplain Soils (F19) (LRR P, T)
Muck Pr	esence (A8) (LRR U)	Depleted Da	ark Surfa	ace (F7)		Anoma	lous Bright Floodplain Soils (F20)
1 cm Mu	ick (A9) (LRR P, T)	(414)	Redox Depr	essions	(F8)		(MLR	RA 153B)
Depleted	ark Surface (A12)	e (ATT)	Depleted Or	chric (E1	1) (MI R	A 151)	Ked Pa	hallow Dark Surface (E22)
Coast P	rairie Redox (A16) (N	ILRA 150A	Iron-Manga	nese Ma	isses (F1	2) (LRR (D. P. T) (outs	side MLRA 138. 152A in FL. 154)
Sandy N	lucky Mineral (S1) (L	.RR O, S)	Umbric Surf	ace (F1	3) (LRR	P, T, U)	Barrier	Islands Low Chroma Matrix (TS7)
Sandy G	eleyed Matrix (S4)		Delta Ochrid	(F17) (MLRA 1	51)	(MLF	RA 153B, 153D)
X Sandy R	Redox (S5)		Reduced Ve	ertic (F18	B) (MLRA	150A, 1	50B) Other (Explain in Remarks)
Stripped	Matrix (S6)		Piedmont F	oodplair	n Soils (F	19) (MLR	A 149A)	
Dark Su	rface (S7) (LRR P, S	, T, U)	Anomalous	Bright F	loodplain	Soils (F2	0) 3	
Polyvalu	S T III)	(MLRA 14	19A, 153	SUTACO () =22)	Indica	tors of hydrophytic vegetation and
LINK	3, 1, 0)		(MLRA 1	38. 152A	in FL. 1	54)	unle	ss disturbed or problematic.
Restrictive	aver (if observed):		(• .,		
Type:	Layer (n obserrea).							
Depth (ir	nches):						Hydric Soil Prese	ent? Yes X No
Remarks:								
Site meets h	ydric soil criteria.							

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Regi See ERDC/EL TR-10-20; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
Project/Site: Bob Anthony Parkway Relocation City/County: Brandon /	Rankin Sampling Date: 8/15/2023
Applicant/Owner: Pearl River Valley Water Supply District	State: MS Sampling Point: GAR-DP 12
Investigator(s): Joe Rujawitz Section, Township, Range:	S2 T6N R2E
Landform (hillside, terrace, etc.): hillside Local relief (concave, convex,	none): none Slope (%): 10
Subregion (LRR or MLRA): LRR P, MLRA 134 Lat: 32.397502° Long: -	90.067536° Datum: WGS 1984
Soil Map Unit Name: Cascilla-Arkabutla association, frequently flooded	NWI classification: n/a
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	No X (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal C	ircumstances" present? Yes No X
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, ex	plain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point location	ons, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No Is the Sampled Area Hydric Soil Present? Yes No X within a Wetland? Wetland Hydrology Present? Yes X No X	Yes No_X
Remarks: According to USACE Antecedent Precipitation Tool, climatic conditions were drier than normal. Si wetland.	e does not meet all three criteria and is not in a
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Surface Water (A1) Aquatic Fauna (B13)	Surface Soll Cracks (B6) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRR U)	X Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)
Water Marks (B1) Oxidized Rhizospheres on Living Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Drift Deposits (B3) Recent Iron Reduction in Tilled Solis (C6)	Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remarks)	Shallow Aguitard (D3)
X Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum Moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
(includes capillary fringe)	Hydrology Present? fes <u>A</u> NO
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if a	vailable:
Remarks:	
Site meets wetland hydrology criteria.	
ENG FORM 6116-2, JUL 2018	Atlantic and Gulf Coastal Plain – Version 2.0

ree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Acer accelering	20	Vee	EAC	Semilario rest worksheet.
Acer sacchannum	30	res	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: (/
				Total Number of Dominant
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 100.0% (/
				Total % Cover of: Multiply by:
	30	=Total Cover		OBL species x 1 =
50% of total cover:	15 20%	of total cover:	6	FACW species x 2 =
pling/Shrub Stratum (Plot size: 15'	_)	Vos	EAC	FAC species x 3 =
Triadica sebifera	20	Yes	FAC	UPL species x 5 =
mario opprora		100		Column Totals: (A)
				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				X 2 - Dominance Test is >50%
		T-1-1 0		3 - Prevalence Index is ≤3.0°
50% of total acuer	20 20%	= I otal Cover	10	Problematic Hydrophytic Vegetation (Explain)
orb Stratum (Plot size: 5')	30 20%	or total cover.	12	
Triadica sebifera	10	Yes	FAC	¹ Indicators of budgia soil and watland budgalagy mu
				present, unless disturbed or problematic.
				Definitions of Four Vegetation Strata:
				Tree - Woody plants, excluding vines, 3 in. (7.6 cr
				more in diameter at breast height (DBH), regardles
				neight.
				Sapling/Shrub – Woody plants, excluding vines, I
				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
				Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall.
	10	-Total Cover		Weedy Vine All weedy vince greater than 2.28 f
50% of total cover:	5 20%	of total cover:	2	height.
body Vine Stratum (Plot size:)				
		T 0		Hydrophytic
FOP/ of total cover	200/	= I otal Cover		Vegetation
50% of total cover:	20%	or total cover:		
	ione holow)			
emarks: (If observed, list morphological adaptati te meets hydrophytic vegetation criteria.	ions below.)			
emarks: (If observed, list morphological adaptati te meets hydrophytic vegetation criteria.	ions below.)			
emarks: (If observed, list morphological adaptatite meets hydrophytic vegetation criteria.	ions below.)			
emarks: (If observed, list morphological adaptatite meets hydrophytic vegetation criteria.	ions below.)			

SOIL							Sampling Point:	GAR-DP 12
Profile Description: (Desc	ribe to the dept	h needed to doo	ument ti	he indica	ator or co	onfirm the absence o	f indicators.)	
Depth Ma	trix	Red	ox Featur	res				
(inches) Color (mois	st) %	Color (moist)	%	Туре	Loc ^z	Texture	Rema	rks
0-2 10YR 5/2	2 100					Sandy		
2-12 10YR 5/3	3 98	10YR 3/6	2	С	М	Sandy	Distinct redox co	ncentrations
			·					
¹ Type: C=Concentration D	-Depletion RM-	Reduced Matrix	MS-Mae	ked San	d Graine	² Location: E		atrix
Hydric Soil Indicators: (Ap	plicable to all L	RRs, unless oth	erwise n	oted.)	u Grains.	Indicators f	or Problematic Hyd	ric Soils ³ :
Histosol (A1)	•	Thin Dark S	Surface (S	69) (LRR	S, T, U)	1 cm Mu	uck (A9) (LRR O)	
Histic Epipedon (A2)		Barrier Islar	nds 1 cm	Muck (S	12)	2 cm Mu	uck (A10) (LRR S)	
Black Histic (A3)		(MLRA 1	53B, 153	D)		Coast P	rairie Redox (A16)	
Hydrogen Sulfide (A4)		Loamy Muc	ky Miner	al (F1) (L	.RR O)	(outsi	de MLRA 150A)	
Stratified Layers (A5)		Loamy Gley	ed Matri	x (F2)		Reduce	d Vertic (F18)	
Organic Bodies (A6) (LF	RR P, T, U)	Depleted M	atrix (F3))		(outsi	de MLRA 150A, 150	В)
5 cm Mucky Mineral (A7	7) (LRR P, T, U)	Redox Dark	Surface	(F6)		Piedmoi	nt Floodplain Soils (F	19) (LRR P, T)
Muck Presence (A8) (LI	RR U)	Depleted D	ark Surfa	ce (F7)		Anomal	ous Bright Floodplain	Soils (F20)
1 cm Muck (A9) (LRR P	Р, Т)	Redox Dep	ressions	(F8)		(MLR)	A 153B)	
Depleted Below Dark St	urface (A11)	Marl (F10)	LRR U)			Red Par	rent Material (F21)	
Thick Dark Surface (A12	2)	Depleted O	chric (F1	1) (MLR	A 151)	Very Sh	allow Dark Surface (F	22)
Coast Prairie Redox (A1	16) (MLRA 150A) Iron-Manga	nese Ma	sses (F1	2) (LRR (D, P, T) (outsi	de MLRA 138, 152A	in FL, 154)
Sandy Mucky Mineral (S	61) (LRR O, S)	Umbric Sur	face (F13	8) (LRR I	P, T, U)	Barrier I	slands Low Chroma I	Matrix (TS7)
Sandy Gleyed Matrix (S	(4)	Delta Ochri	c (F17) (MLRA 1	51)	(MLR)	A 153B, 153D)	
Sandy Redox (S5)		Reduced V	ertic (F18) (MLRA	150A, 1	50B) Other (E	Explain in Remarks)	
Stripped Matrix (S6)		Piedmont F	loodplain	Soils (F	19) (MLR	A 149A)		
Dark Surface (S7) (LRR	ξ Ρ, S, T, U)	Anomalous	Bright Fl	oodplain	Soils (F2	.0)		
Polyvalue Below Surfac	e (S8)	(MLRA 1	49A, 153	C, 153D)	°Indicato	ors of hydrophytic veg	etation and
(LRR S, T, U)		Very Shallo	w Dark S 38 1524	in FI 1	-22) 54)	wetla	nd hydrology must be s disturbed or probler	present, natic
Restrictive Laver (if observer	ved):	(11210) 1			•1)	dillos		nutro.
Туре:	,							
Depth (inches):						Hydric Soil Prese	nt? Yes	No X
Remarks:								
Site does not meet hydric so	oil criteria.							



Project: Bob Anthony Parkwa	ay Relocation	City/County/State: Jackson/Hinds/Mississippi					
Investigator(s): Joe Rujawit	z	Lat: 32.398833° Long: -90.068169°	5	Sample Location ID: DW7			
Applicant/Owner: Pearl Riv	ver Valley Water Supply District	Date: 08/15/2023					
Reason for Survey: Wetland	1 Delineation						
River Basin/HUC Number	:031800020601	Tributary Name	(if known): _{Unk}	nown stream			
Size of Watershed: 20,913.	58 Acres	Nearest TNW: D	and Divor				
Size of Drainage Area: 1.5	Acres	1.000 000 11100 PG	ari Kiver				
	Tributary subsystem:						
	Ephemeral	Intermittent	F	Perennial			
TRIBUTARY	Tributary flows directly into a TNW? Explain: No. OW7 flows into a pond before connecting with Pearl River.						
CHARACTERIZATION	Distance to nearest TNW: River Miles: 0.28 Aerial Miles: 0.23						
	Describe flow route to TNW: Tributary flows southwest into riparian pond; thence into Pearl River.						
	Tributary is (natural / artific Explain: The tributary has bee	ial / manipulated): n created artificially to	o drain the area alo	ong Ross Barnette Reservoir.			
WEATHER CONDITIONS	Current: rain (steady rain) showers (intermittent) cloud cover(%) clear/ sunny air temperature: <u>86</u> (°F)	Has there be Average	en heavy rain in Rainfall: <u>0</u>	n the last 7 days? No			
	Comment:						
	Predominant surrounding l	anduse:					
	✓ Forest Co	ommercial	✓Other (Expl	ain):			
WATERSHED FEATURES	Field/Pasture	dustrial	Area around stre associated with S Reservoir	am is maintained ROW Spillway Road and Barnett			
	Agricultural Re	esidential	Accounter on				

TRIBUTARY FEATURES	Estimated reach length: 150 (ft.) Estimated channel width: 3 (ft.) Estimated channel depth: 0.25 (ft.) Estimated slope of banks: Substrate: vertical 2:1 3:1 4:1								
TRIBUTARY CONDITION	 Tributary has (defined bed and banks / OHWM): Explain: Defined bed and banks Bank stability (highly eroded, sloughing banks, etc): Explain: Stable near source where lined with riprap. Towards the mouth, the stream has slightly eroded banks. Riffle / Run / Pool complex: No Explain: No flow observed. 								
FLOW CONDITIONS	Tributary geometry (relatively straight, meandering, other): Explain: Relatively straight. Current flow is (discrete, confined, overland sheet flow, etc): Explain: No flow on day of investigation Average flow events per year: ?								
VEGETATION	Approximate width of riparian buffer: n/a (ft.) Dominant species present (top bank / buffer): Triadica sebifera, Saururus cernuus, Persicaria spp., Chasmanthium latifolium Aquatic vegetation present: No Comment: Weeds growing in riprap near source. Vegetation along OW7 dominated by Triadica sebifera in forested areas and by Persicaria puncata and Saururus cernuus in emergent areas. The emergent areas belong to the riparian zone of OW8.								

Site 6





Bob Anthony Parkway Relocation Madison, Hinds, and Rankin County, Mississippi

Site 6 2023 USDA National Agricultural Imagery Program



Legend Data Points Wetland - Emergent Other Waters

Bob Anthony Parkway Relocation Madison, Hinds, and Rankin County, Mississippi

Site 6 - Alternative B 2023 USDA National Agricultural Imagery Program





Bob Anthony Parkway Relocation Madison, Hinds, and Rankin County, Mississippi

Site 6 - Alternative E 2023 USDA National Agricultural Imagery Program



U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Regio See ERDC/EL TR-10-20; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 n Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
Project/Site: Bob Anthony Parkway Relocation City/County: Brandon / F	Rankin Sampling Date: 8/15/2023
Applicant/Owner: Pearl River Valley Water Supply District	State: MS Sampling Point: GAR-DP 9
Investigator(s): Joe Rujawitz Section, Township, Range:	52 T6N R2E
Landform (hillside, terrace, etc.): swale Local relief (concave, convex, n	one): concave Slope (%): 2
Subregion (LRR or MLRA): LRR P, MLRA 134 Lat: 32.397339° Long: -90	0.065958° Datum: WGS 1984
Soil Map Unit Name: Cascilla-Arkabutla association, frequently flooded	NWI classification: n/a
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	No X (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturbed? Are "Normal Cir	cumstances" present? Yes No X
Are Vegetation, Soil, or Hydrologynaturally problematic? (If needed, expl	ain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locatio	ns, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X Is the Sampled Area Hydric Soil Present? Yes X No within a Wetland? Wetland Hydrology Present? Yes X No	Yes No_X
Remarks: According to USACE Antecedent Precipitation Tool, climatic conditions were drier than normal. Site wetland.	does not meet all three criteria and is not in a
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Surface Water (A1) Aquatic Fauna (B13)	Surface Soli Cracks (B6) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)
Water Marks (B1) Oxidized Rhizospheres on Living Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Algal Mat or Crust (B4) Thin Muck Surface (C7)	X Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remarks)	Shallow Aquitard (D3)
X Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum Moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	vdrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if ava	ailable:
Remarks: Site meets wetland hydrology criteria.	
ENG FORM 6116-2, JUL 2018	Atlantic and Gulf Coastal Plain – Version 2.0

ree Stratum (Plot size:		Absolute	Dominant	Indicator	
(Flot size.)	% Cover	Species?	Status	Dominance Test worksheet:
- -					Number of Dominant Species That Are OBL, FACW, or FAC: 0 (/
·					Total Number of Dominant Species Across All Strata: 1 (f
					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (/
					Prevalence Index worksheet:
					Total % Cover of: Multiply by:
			=Total Cover		OBL species 0 x 1 = 0
50% of t	otal cover:	20%	of total cover:		FACW species 0 x 2 = 0
pling/Shrub Stratum (Plot size:)			FAC species 0 x 3 = 0
					FACU species 100 x 4 = 400
					UPL species 0 x 5 = 0
					Column Totals: 100 (A) 400
					Prevalence Index = B/A = 4.00
					Hydrophytic Vegetation Indicators:
					1 - Rapid Test for Hydrophytic Vegetation
					2 - Dominance Test is >50%
					3 - Prevalence Index is ≤3.0 ¹
			=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain
50% of t	otal cover:	20%	of total cover:		
0070 011)		or total borton.		
rh Stratum (Plot size: 5'					
rb Stratum (Plot size: 5'		100	Voc	EACU	
r <u>b Stratum</u> (Plot size: 5' Paspalum notatum	,	100	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology mu
r <u>b Stratum</u> (Plot size: 5' Paspalum notatum	,	100	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology mu present, unless disturbed or problematic.
r <u>b Stratum</u> (Plot size: <u>5'</u> Paspalum notatum	,	100	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology mupresent, unless disturbed or problematic. Definitions of Four Vegetation Strata:
r <u>b Stratum</u> (Plot size: <u>5'</u> Paspalum notatum	,	100	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology mupresent, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cr mars in dimension st. hereat height (DBH), magardia
r <u>b Stratum</u> (Plot size: <u>5'</u> Paspalum notatum	,	100	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology mupresent, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cr more in diameter at breast height (DBH), regardless height.
r <u>b Stratum</u> (Plot size: <u>5'</u> Paspalum notatum		100	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology mupresent, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cr more in diameter at breast height (DBH), regardles height.
Paspalum (Plot size: 5'		100	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology mupresent, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cr more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, 1
r <u>b Stratum</u> (Plot size: <u>5'</u> Paspalum notatum			Yes	FACU	 ¹Indicators of hydric soil and wetland hydrology mipresent, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cr more in diameter at breast height (DBH), regardler height. Sapling/Shrub – Woody plants, excluding vines, than 3 in. DBH and greater than 3.28 ft (1 m) tall.
r <u>b Stratum</u> (Plot size: <u>5'</u> Paspalum notatum	, 		Yes	FACU	 ¹Indicators of hydric soil and wetland hydrology mipresent, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cr more in diameter at breast height (DBH), regardler height. Sapling/Shrub – Woody plants, excluding vines, 1 than 3 in. DBH and greater than 3.28 ft (1 m) tall.
rb Stratum (Plot size: <u>5'</u> Paspalum notatum	, 		Yes	FACU	 ¹Indicators of hydric soil and wetland hydrology mipresent, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cr more in diameter at breast height (DBH), regardler height. Sapling/Shrub – Woody plants, excluding vines, i than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regard
r <u>b Stratum</u> (Plot size: <u>5'</u> Paspalum notatum	, 		Yes	FACU	 ¹Indicators of hydric soil and wetland hydrology mepresent, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cl more in diameter at breast height (DBH), regardler height. Sapling/Shrub – Woody plants, excluding vines, i than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall.
Paspalum notatum	,		Yes	FACU	 ¹Indicators of hydric soil and wetland hydrology mupresent, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cr more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, 1 than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft beight
Paspalum notatum Paspalum notatum)	<u> 100</u> <u> </u>	Yes		 ¹Indicators of hydric soil and wetland hydrology mepresent, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cr more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, 1 than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft height.
rb Stratum (Plot size: 5' Paspalum notatum 	,		Yes		 ¹Indicators of hydric soil and wetland hydrology mepresent, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cr more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, 1 than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft height.
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rb Stratum (Plot size: 5' Paspalum notatum 					 ¹Indicators of hydric soil and wetland hydrology mepresent, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cr more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, 1 than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft height.
Paspalum notatum Paspalum notatum	,				 ¹Indicators of hydric soil and wetland hydrology mupresent, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cr more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, 1 than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft height.
Paspalum notatum Paspalum notatum Paspalum notatum					 ¹Indicators of hydric soil and wetland hydrology mupresent, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cr more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, I than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft height.
erb Stratum (Plot size: 5' Paspalum notatum Paspalum notatum Paspalum notatum Paspalum notatum Paspalum (Plot size: 50% of t Paspalum (Plot size:)		Yes		 ¹Indicators of hydric soil and wetland hydrology mupresent, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, 1e than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardl of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft height. Hydrophytic
erb Stratum (Plot size: 5' Paspalum notatum)				 ¹Indicators of hydric soil and wetland hydrology mupresent, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, 1 it than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardl of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft height. Hydrophytic Vegetation

SOIL								5	Sampling Point:	GAR-DP 9
Profile Desc	cription: (Describe	to the dept	h needed to doc	ument t	he indic	ator or c	onfirm the abse	nce of indi	cators.)	
Depth	Matrix		Redo	x Featu	res					
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc ²	Texture		Remar	ks
0-2	10YR 3/2	98	10YR 3/6	2	С	М	Loamy/Claye	ey Pr	ominent redox c	oncentrations
2-6	10YR 4/2	70	10YR 3/6	5	С	М	Loamy/Claye	ey	25% 10YR 5/2 in Matrix	
6-14	10YR 6/2	80	10YR 6/8	20	С	М	Sandy	Pr	Prominent redox concentratio	
					·					
¹ Turnet C=C		lation DM-I	Peduced Metrix		ked Can	d Craina	21 0001	ion: DI -Do	ro Lining M-Ma	dela.
Hydric Soil	Indicators: (Applica	ble to all L	RRs. unless oth	erwise r	noted.)	u Grains.	Indica	tors for Pr	oblematic Hydr	ic Soils ³ :
Histosol	(A1)		Thin Dark S	urface (59) (LRF	S. T. U)	1	cm Muck (A	9) (LRR O)	
Histic Er	pipedon (A2)		Barrier Islan	ds 1 cm	Muck (S	(12)	2	cm Muck (A	10) (LRR S)	
Black Hi	stic (A3)		(MLRA 1	53B. 153	3D)	,	<u> </u>	oast Prairie	Redox (A16)	
Hydroge	en Sulfide (A4)		Loamy Muc	kv Miner	al (F1) (I	RR O)	_	(outside MI	RA 150A)	
Stratified	Lavers (A5)		Loamy Glev	ed Matri	x (F2)		R	educed Vert	ic (F18)	
Organic	Bodies (A6) (I RR P	тш	X Depleted M	atrix (E3)			(outside MI	RA 150A 150F	3)
5 cm Mu	icky Mineral (A7) (LR	28 P T II)	Bedox Dark	Surface	/ (E6)		Pi	edmont Flor	-dolain Soils (F1	
Muck Br		(((F, 1, 0)	Deploted Dr	ourlace	(FO)		—,		right Eloodoloin	Soile (E20)
	esence (AO) (LRK U)	Depieted Da				^			30lis (F20)
T CHI MU	d Balaw Dark Surface	(111)	Mark (E10) /		(ГО)		P	(IVILKA 155	D) Interial (EQ1)	
Depleted	a Below Dark Surface	e (ATT)	Nari (F10) (LKK U)	1) / М В			ed Parent M	Derk Surface (F	222
	ark Surface (A12)				1) (WLR	A 151)	~ ~ ~ ^v	ery Shallow	Dark Surface (F	22) In FL 454)
Coast Pl	rairie Redox (A16) (N	ILKA 150A)	Iron-Manga	iese Ma	Isses (F1	2) (LRR (U, P, I)	(outside Mi	_RA 138, 152A	IN FL, 154)
Sandy M	lucky Mineral (S1) (L	.RR 0, S)	Umbric Surf	ace (F1:	3) (LRR	P, T, U)	Bi	arrier Island	s Low Chroma N	Aatrix (TS7)
Sandy G	Bleyed Matrix (S4)		Delta Ochrid	(F17) (MLRA 1	51)		(MLRA 153	B, 153D)	
X Sandy R	Redox (S5)		Reduced Ve	ertic (F18	3) (MLRA	A 150A, 1	50B)O	ther (Explair	n in Remarks)	
Stripped	Matrix (S6)		Piedmont F	oodplair	n Soils (F	19) (MLF	RA 149A)			
Dark Su	rface (S7) (LRR P, S	, T, U)	Anomalous	Bright F	loodplain	Soils (F2	20)			
Polyvalu	e Below Surface (S8	5)	(MLRA 14	19A, 153	8C, 153D)	°lı	ndicators of	hydrophytic veg	etation and
(LRR	S, T, U)		Very Shallo	w Dark S	Surface (F22)		wetland hyd	drology must be	present,
Restrictive	Laver (if observed):		(MLKA I	50, 1524	(In FL, 1	54)	1	uniess dist	inced of problem	latic.
Туре:										
Depth (ir	nches):						Hydric Soil	Present?	Yes X	No
Remarks:										
Site meets h	ydric soil criteria.									
	,									
1										
1										
1										

U.S. Army Corps WETLAND DETERMINATION DATA SHEET See ERDC/EL TR-10-20; the prop	s of Engineers – Atlantic and Gulf Coastal ponent agency is CECW-C	Plain Region O-R	OMB Control #: 0710-0024, Exp. Requirement Control Symbol (Authority: AR 335-15, paragr	: 11/30/2024 EXEMPT: raph 5-2a)
Project/Site: Bob Anthony Parkway Relocation	City/Coun	ty: Brandon / Rar	kin Sampling Dat	e: 8/15/2023
Applicant/Owner: Pearl River Valley Water Supp	v District		State: MS Sampling Poir	nt: GAR-DP 10
Investigator(s): Joe Rujawitz	Section, Towns	ship, Range: S2	T6N R2E	
Landform (hillside terrace etc.): swale	Local relief (conc	ave convex non	a): concave Slope (%	J: 2
Subregion (I RR or MI RA): LRR P. MI RA 134		Long: -90.0	5977° Dətum:	WGS 1984
Soil Man Linit Name: Cascilla-Arkabutla association	frequently flooded	Long50.0	NWI classification: n/a	100 1304
Are elimetic (hudrelesis conditions on the site turical	for this time of user?	Vec		vilce)
Are climatic / hydrologic conditions on the site typical	ior this time of year?	Tes I		irks.)
Are vegetation, Soll, or Hydrology	significantly disturbed ? A	re "Normal Circu	mstances present? Yes	
Are Vegetation, Soil, or Hydrology	naturally problematic? (I	f needed, explain	any answers in Remarks.)	
SUMMARY OF FINDINGS – Attach site n	nap showing sampling po	oint locations	, transects, important fea	tures, etc.
Hydrophytic Vegetation Present? Yes	K No Is the Sam	npled Area		
Hydric Soil Present? Yes	K No within a W	Vetland?	Yes X No	
Wetland Hydrology Present? Yes	K No			
				s and FM.
HYDROLOGY				
Wetland Hydrology Indicators:		Sec	condary Indicators (minimum of tw	o required)
Primary Indicators (minimum of one is required; che	ck all that apply)		Surface Soil Cracks (B6)	
Surface Water (A1) Aq	uatic Fauna (B13)		Sparsely Vegetated Concave Su	rface (B8)
High Water Table (A2)	arl Deposits (B15) (LRR U)		Drainage Patterns (B10)	
Water Marks (B1)	idized Rhizospheres on Living R	oots (C3)	Dry-Season Water Table (C2)	
Sediment Deposits (B2)	esence of Reduced Iron (C4)		Cravfish Burrows (C8)	
Drift Deposits (B3)	cent Iron Reduction in Tilled Soil	s (C6)	Saturation Visible on Aerial Imag	ery (C9)
Algal Mat or Crust (B4) Th	in Muck Surface (C7)	x	Geomorphic Position (D2)	
Iron Deposits (B5) Ot	her (Explain in Remarks)		Shallow Aquitard (D3)	
X Inundation Visible on Aerial Imagery (B7)		Х	FAC-Neutral Test (D5)	
Water-Stained Leaves (B9)			Sphagnum Moss (D8) (LRR T, U)
Field Observations:				
Surface Water Present? Yes No	C Depth (inches):			
Water Table Present? Yes No 2	C Depth (inches):			
Saturation Present? Yes No 2	C Depth (inches):	Wetland Hyd	rology Present? Yes X	(No
(Includes capillary tringe)	well period photos, provious incr	octions) if ovaila	blo	
Describe Recorded Data (stream gauge, monitoring	well, aerial priotos, previous insp	ections), ir avalia	Die.	
Remarks:				
Site meets wetland hydrology criteria.				
ENG FORM 6116-2, JUL 2018			Atlantic and Gulf Coastal Plai	n – Version 2.(
VEGETATION (Four Strata) – Use scien	ntific names	of plants.		Sampling Point: GAR-DP 10
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Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2				That Are OBL, FACW, or FAC: 2 (A)
4.				Species Across All Strata: 2 (B)
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
		=Total Cover		OBL species x 1 =
50% of total cover:	20%	of total cover:		FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)			FAC species x 3 =
1.	_			FACU species x 4 =
2.				UPL species x 5 =
3.				Column Totals: (A) (E
4.				Prevalence Index = B/A =
5.				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7.				X 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
		=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20%	of total cover		
Horb Stratum (Plot aize: 20')	2078	or total cover.		
A Device distant distance (Piol Size. 30)	10	Vee	FACIN	
1. Panicum dichotomitiorum	40	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must
2. Diodia virginiana	40	Yes	FAC	present, unless disturbed or problematic.
3.				Definitions of Four Vegetation Strata:
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of
5.				more in diameter at breast height (DBH), regardless of height
6.				noight.
7.				Sapling/Shrub - Woody plants, excluding vines, less
8.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9				
10				Harb All borbassous (non-woods) plants, recentles
11.				of size, and woody plants less than 3.28 ft tall.
12.	80	=Total Cover		Woody Vine - All woody vines greater than 3.28 ft in
50% of total cover:	40 20%	of total cover:	16	height.
Woody Vine Stratum (Plot size:)				
1.				
2.				
3.				
4.				
5.				
		=Total Cover		Hydrophytic
50% of total cover:	20%	of total cover		Present? Yes X No
	2070	or total obver.		
Remarks: (If observed, list morphological adaptat	ions below.)			
Site meets hydrophytic vegetation criteria.				
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Torlie Description: (Description: (Descript									
Joint Color (moist) Color (moist) <thcolor (moist)<="" th="" th<=""><th>Profile Desc</th><th>cription: (Describe</th><th>to the dept</th><th>h needed to doo</th><th>ument ti</th><th>he indica</th><th>ator or co</th><th>onfirm the absence</th><th>of indicators.)</th></thcolor>	Profile Desc	cription: (Describe	to the dept	h needed to doo	ument ti	he indica	ator or co	onfirm the absence	of indicators.)
O.2 10YR 3/2 98 10YR 3/6 2 C M Loamy/Clayey Prominent redox concentration 2-6 10YR 4/2 70 10YR 3/6 5 C M Loamy/Clayey 25% 10YR 5/2 in Matrix 6-14 10YR 6/2 80 10YR 6/8 20 C M Sandy Prominent redox concentration 17pe: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. 17pe: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. 17pe: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. 17pe: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. 17pe: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. 17pe: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. 17pe: Train Sand Matrix, MS=Masked Sand Grains. *Lo	(inches)	Color (moist)	%	Color (moist)	0x reatur %	Tvpe ¹	Loc ²	Texture	Remarks
0.2 101K 3/2 95 101K 3/0 2 C M Loamy/Clayey Prominent redox concentration 2-6 10YR 6/2 80 10YR 6/8 20 C M Sandy Prominent redox concentration 6-14 10YR 6/2 80 10YR 6/8 20 C M Sandy Prominent redox concentration Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. type: C=Concentration, CAP Batrified (A1) Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators: (Applicable to all LRR, Unlex (S12) 2 cm Muck (A10) (LRR S) <t< td=""><td>0.2</td><td>10VP 3/2</td><td>08</td><td>1070 3/6</td><td></td><td><u>.,,,,,,</u></td><td></td><td>Learny/Clavey</td><td>Prominant radox concentration</td></t<>	0.2	10VP 3/2	08	1070 3/6		<u>.,,,,,,</u>		Learny/Clavey	Prominant radox concentration
2-6 10YR 4/2 70 10YR 3/8 5 C M Loamy/Clayey 25% 10YR 5/2 in Matrix 6-14 10YR 6/2 80 10YR 6/8 20 C M Sandy Prominent redox concentration Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils? Histosol (A1) Tinin Dark Surface (S1) (MLRA 1538, 153D) Coast Praine Redox (A16) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) Pledmont Floodplain Soils (F10) Muck Presence (A8) (LRR P, T, U) Redox Dark Surface (F11)	0-2	1011 3/2	- 30	1011 3/0				Loaniy/Clayey	Fromment redox concentration
6-14 10YR 6/2 80 10YR 6/8 20 C M Sandy Prominent redox concentration Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *1_Ocation: PL=Pore Lining, M=Matrix. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *1_Ocation: PL=Pore Lining, M=Matrix. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *1_Ocation: PL=Pore Lining, M=Matrix. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *1_Ocation: PL=Pore Lining, M=Matrix. Histosol (A1) Thin Dark Surface (S9) (LRR S, T, U) Indicators for Problematic Hydric Soils*: Histosol (A1) Thin Dark Surface (S9) (LRR O) 2 cm Muck (A10) (LRR O) Hydrogen Suffide (A4) Loarny Mucky Mineral (F1) (LRR O) Coast Praine Redox (A16) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F7) Redox Dark Surface (F8) Muck Presence (A8) (LRR P, T) Redox Dark Surface (F12) (LRR O, P, T) Matrix (F10) (LRR U) Torn Muck (A9) (LRR P, T, U) Depleted Matrix (F2) Red Parent Material (F21) Coast Praine Redox (A16) Indicators of A110 (MLRA 150) MucRA 138, 152A in FL, 154) <	2-6	10YR 4/2	70	10YR 3/6	5	С	M	Loamy/Clayey	25% 10YR 5/2 in Matrix
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Wight C Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histosol (A1) Thin Dark Surface (S9) (LRR S, T, U) 1 cm Muck (A10) (LRR O) Histosol (A2) Barrier Islands 1 cm Muck (S12) 2 cm Muck (A10) (LRR P) Hydrogen Suffide (A4) Loamy Gleyed Matrix (F2) Coast Prairie Redox (A16) Organic Bodies (A6) (LRR P, T, U) X Depleted Matrix (F3) Reduced Vertic (F18) Scm Mucky Mineral (A7) (LRR P, T, U) Redox Dark Surface (F6) Piedemont Floodplain Soils (F19) (LRR P, T, U) Scm Mucky Mineral (A7) Depleted Dark Surface (F7) Anomalous Bright Floodplain Soils (F20) 1 m Muck (A9) (LRR P, T, U) Redox Depressions (F8) (MLRA 153B) Z Depleted Below Dark Surface (A12) Depleted Ochric (F11) (MLRA 151) Very Shallow Dark Surface (F22) Coast Prairie Redox (A16) (MLRA 150A) Iron-Manganese Masses (F12) (LRR O, P, T) Gustide MLRA 153B, 152A in FL, 154) Sandy Gleyed Matrix (S4) Delte Ochric (F12) (MLRA 150, 150B) Other (Explain in Remarks) Stripped Matrix (S4) Delte Ochric (F12) (MLRA 150A, 150B) Other (Explain in Remarks)	6-14	10YR 6/2	80	10YR 6/8	20	С	М	Sandy	Prominent redox concentration
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Histosol (A1) Thin Dark Surface (S9) (LRR S, T, U) Indicators for Problematic Hydric Soils ³ : Histosol (A2) Barrier Islands 1 cm Muck (S12) 2 cm Muck (A10) (LRR O) Black Histo (A3) (MLRA 153B, 153D) Coast Prairie Redox (A16) Organic Bodies (A6) (LRR P, T, U) Loamy Gleyed Matrix (F2) Reduced Vertic (F18) Organic Bodies (A6) (LRR P, T, U) Depleted Matrix (F3) (outside MLRA 150A, 150B) S cm Muck (M)ineral (A7) (LRR P, T, U) Redox Dark Surface (F6) Pletedmont Floodplain Soils (F19) (LRR P, Muck Presence (A8) (LRR U) Depleted Dark Surface (F7) Anomalous Bright Floodplain Soils (F20) 1 cm Muck (A9) (LRR P, T) Redox Depressions (F8) Rdu F10) (LRR O, P, T) Depleted Bolw Dark Surface (A11) Marl (F10) (LRR D, P, T) Barrier Islands Low Chrome Matrix (F2) Sandy Mucky Mineral (S1) (LRR O, S) Umbric Surface (F13) (LRR P, T, U) Barrier Islands Low Chrome Matrix (T7) Sandy Gleyed Matrix (S6) Detleta Ochric (F17) (MLRA 150A, 150B) Other (Explain in Remarks) Stripped Matrix (S6) Pleidmont Floodplain Soils (F19) (MLRA 143A, 152A, 150D) Other (Explain in Remarks)									
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. tydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histosol (A1) Barrier Islands 1 cm Muck (S12) 2 cm Muck (A9) (LRR Q) Black Histic (A3) (MLRA 1538, 153D) Coast Prairie Redox (A16) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR O) (outside MLRA 150A) Stratified Layers (A6) LRR P, T, U) X Depleted Matrix (F2) Reduced Vertic (F18) Gorganic Bodies (A6) (LRR P, T, U) X Depleted Matrix (F3) (outside MLRA 150A, 150B) 5 cm Muck (A9) (LRR P, T) Redox Dark Surface (F6) Piedmont Floodplain Soils (F19) (LRR P, Muck Presence (A8) (LRR V) Depleted Dark Surface (F7) Anomalous Bright Floodplain Soils (F20) 1 cm Muck (A9) (LRR P, T) Redox Depressions (F8) (MLRA 153B) X Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Very Shallow Dark Surface (F22) Coast Prairie Redox (A16) (MLRA 153B) Getarent Material (F21) Sandy Mucky Mineral (S1) (LRR O, S) Umbric Surface (F13) (LRR P, T, U) Barrier Islands Low Chroma Matrix (TS7) Sandy Gleyed Matrix (S4)									
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histosol (A1) Thin Dark Surface (S9) (LRR S, T, U) 2 cm Muck (A9) (LRR O) Black Histic (A3) (MLRA 153B, 153D) Coast Prairie Redox (A16) Hydrogen Suffide (A4) Loarny Mucky Mineral (F1) (LRR O) Coast Prairie Redox (A16) Organic Bodies (A6) (LRR P, T, U) X Depleted Matrix (F3) Reduced Vertic (F18) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) Piedmont Floodplain Soils (F19) (LRR P, Muck (A9) (LRR P, T) Redox Dark Surface (F7) Anomalous Bright Floodplain Soils (F20) 1 m Muck (A9) (LRR P, T) Redox Depressions (F8) (MLRA 153B) X Depleted Below Dark Surface (A12) Depleted Ochric (F11) (MLRA 151) Very Shallow Dark Surface (F22) Coast Prairie Redox (A16) (MLRA 150A) Iron-Manganese Masses (F12) (LRR O, P, T) Barrier Islands Low Chroma Matrix (TS7) Sandy Mucky Mineral (S1) (LRR O, S) Umbric Surface (F13) (LRR P, T, U) Barrier Islands Low Chroma Matrix (TS7) Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A, 150B) Sindicators of hydrophytic vegetation and wetlan hydrolo									
tydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.) indicators for Problematic Hydric Soils:: Histosol (A1) Thin Dark Surface (S9) (LRR S, T, U) 2 cm Muck (A9) (LRR 0) Histic Epipedon (A2) Barrier Islands 1 cm Muck (S12) 2 cm Muck (A10) (LRR S) Black Histic (A3) (MLRA 153B, 153D) Coast Prairie Redox (A16) Organic Bodies (A6) (LRR P, T, U) X Depleted Matrix (F3) Reduced Vertic (F18) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) Piedmont Floodplain Soils (F19) (LRR P, Muck Presence (A8) (LRR U) Depleted Dark Surface (F7) Anomalous Bright Floodplain Soils (F20) 1 cm Muck (A9) (LRR P, T) Redox Dapressions (F8) (MLRA 153B) X Depleted Below Dark Surface (A11) Mari (F10) (LRR U) Red Parent Material (F21) Otaris Redox (A16) (MLRA 150A) Iron-Manganese Masses (F12) (LRR O, P, T) (outside MLRA 153A, 152A in FL, 154) Sandy Mucky Mineral (S1) (LRR O, S) Umbric Surface (F13) (LRR P, T, U) Barrier Islands Low Chroma Matrix (TS7) Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A, 150B) Other (Explain in Remarks) Stripped Matrix (S6) Piedmont Floodplain Soils (F20) (MLRA 153B, 153D) Dark Surface (S7) (LRR P, S, T, U) Anomalous Bright Floodplain Soils	Type: C=C	oncentration, D=Dep	letion, RM=	Reduced Matrix,	MS=Mas	ked San	d Grains.	² Location:	PL=Pore Lining, M=Matrix.
Histosto (A1) Hint Dark Surface (S2) 2 cm Muck (A10) (LRR 9) Histic Epipedon (A2) Barrier Islands 1 cm Muck (S12) 2 cm Muck (A10) (LRR 9) Black Histic (A3) (MLRA 153B, 153D) 2 cm Muck (A10) (LRR R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR 0) Coast Prairie Redox (A16) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Reduced Vertic (F18) Organic Bodies (A6) (LRR P, T, U) X Depleted Matrix (F3) (outside MLRA 150A, 150B) 5 cm Muck (A9) (LRR P, T) Redox Dark Surface (F6) Piedmont Floodplain Soils (F19) (LRR P, Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Redox Dark Surface (F7) Anomalous Bright Floodplain Soils (F20) 1 cm Muck (A9) (LRR P, T) Redox Dark Surface (F1) Mart (F10) (LRR U) 2 cost Prairie Redox (A16) Merk A 150A) Umbric Surface (F1) (LRR O, P, T) Sandy Mucky Mineral (S1) (LRR O, S) Umbric Surface (F13) (LRR P, T, U) Barrier Islands Low Chroma Matrix (TS7) Sandy Mucky Mineral (S1) Delta Ochric (F17) (MLRA 150A, 150B) Other (Explain in Remarks) Stripped Matrix (S6) Piedmont Floodplain Soils (F20) (MLRA 153A, 152A) Polyvalue Below Surface (S8) (MLRA 138, 152A in FL, 154) Metand hydrology must be present, unless dis	History	Indicators: (Applica	able to all L	RRs, unless oth	erwise n	ioted.)	е т III	Indicators	for Problematic Hydric Soils":
Instance Explored (A2) Barner Istands 1 cm Muck (S12) 2 cm Muck (A10) (LRK 5) Black Histic (A3) (MLRA 153B, 153D) Coast Prairie Redox (A16) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR 0) (outside MLRA 150A) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR 0) Reduced Vertic (F18) Organic Bodies (A6) (LRR P, T, U) X Depleted Matrix (F3) (outside MLRA 150A, 150B) 5 cm Mucky Mineral (A7) (LRR P, T, U) Redox Dark Surface (F6) Piedmont Floodplain Soils (F19) (LRR P, Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Redox Depressions (F8) (MLRA 153B) X Depleted Below Dark Surface (A11) Mad (F10) (LRR U) Red Parent Material (F21) Yery Shallow Dark Surface (A12) Depleted Ochric (F11) (MLRA 151) Very Shallow Dark Surface (F22) Coast Prairie Redox (A16) (MLRA 150A) Iron-Manganese Masses (F12) (LRR O, P, T) (outside MLRA 138, 152A in FL, 154) Sandy Gleyed Matrix (S4) Delta Ochric (F13) (MLRA 150B) Other (Explain in Remarks) Stripped Matrix (S6) Piedmont Floodplain Soils (F19) (MLRA 149A) Other (Explain in Remarks) Stripped Matrix (S6) Piedmont Floodplain Soils (F19) (MLRA 149A) Other (Explain in Remarks) Ophyalue Below Surface (S7) (LRR P, S, T, U) <	Histosol	(AI)		Thin Dark 3	ouriace (a	Muele (S	10) 10)	1 cm M	Muck (A9) (LRR O)
Biack Histic (x3) (MickA 1555, 153D) Coast Praine Redox (x16) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR 0) (outside MLRA 150A) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR 0) (outside MLRA 150A) 5 cm Mucky Mineral (A7) (LRR P, T, U) Redox Dark Surface (F6) Piedmont Floodplain Soils (F19) (LRR P, 10) Muck Presence (A8) (LRR U) Depleted Dark Surface (F7) Anomalous Bright Floodplain Soils (F20) 1 cm Muck (A9) (LRR P, T) Redox Depressions (F8) (MLRA 153B) X Depleted Below Dark Surface (A11) Marl (F10) (LRR U) Red Parent Material (F21) Thick Dark Surface (A12) Depleted Ochric (F11) (MLRA 151) Very Shallow Dark Surface (F22) Coast Prairie Redox (A16) (MLRA 150A) Iron-Manganese Masses (F12) (LRR O, P, T) (outside MLRA 138, 152A in FL, 154) Sandy Mucky Mineral (S1) (LRR O, S) Umbric Surface (F13) (LRR A 150B) Other (Explain in Remarks) Stripped Matrix (S6) Piedmont Floodplain Soils (F19) (MLRA 149A) Other (Explain in Remarks) Stripped Matrix (S6) Piedmont Floodplain Soils (F19) (MLRA 149A) Other (Explain in Remarks) Polyvalue Below Surface (S7) (LRR P, S, T, U) Anomalous Bright Floodplain Soils (F20) Other (Explain in Remarks) Polyvalue Below Surface (S7)	Block Hi	pipedon (A2)		Barrier Islan		INIUCK (S	12)		Drainia Baday (A16)
Imploident Sunide (x4)	Black Hi	ISTIC (A3)			53B, 153	D) al (E1) (I		Coast	Prairie Redox (A16)
Strattined Layers (AS)	Hydroge	en Sumde (A4)		Loamy Muc	ky Miner	ai (F1) (L	.RR U)	(out	side MLRA 150A)
Organic Bodies (A6) (LRR P, T, U) X Depleted Matrix (F3) (outside MLRA 150A, 150B) 5 cm Mucky Mineral (A7) (LRR P, T, U) Redox Dark Surface (F6) Piedmont Floodplain Soils (F19) (LRR P, Muck A9) (LRR P, T) 1 cm Muck (A9) (LRR P, T) Redox Depressions (F8) (MLRA 153B) X Depleted Below Dark Surface (A11) Marl (F10) (LRR U) Red Parent Material (F21) Thick Dark Surface (A12) Depleted Ochric (F11) (MLRA 151) Very Shallow Dark Surface (F22) Coast Prairie Redox (A16) (MLRA 150A) Iron-Manganese Masses (F12) (LRR O, P, T) (outside MLRA 138, 152A in FL, 154) Sandy Mucky Mineral (S1) (LRR O, S) Umbric Surface (F13) (LRR P, T, U) Barrier Islands Low Chroma Matrix (TS7) Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A, 150B) Other (Explain in Remarks) Stripped Matrix (S6) Piedmont Floodplain Soils (F20) Other (Explain in Remarks) Polyvalue Below Surface (S8) (MLRA 149A, 153C, 153D) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. testrictive Layer (if observed): Type:	Straumed	d Layers (Ab)		Loamy Gley	yed Matri	x (F2)		Reduc	ed Vertic (F18)
5 cm Mucky Mineral (A7) (LRR P, T, U) Redox Dark Surface (F6) Piedmont Floodplain Soils (F19) (LRR P, Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Redox Depressions (F8) Anomalous Bright Floodplain Soils (F20) 2 Depleted Below Dark Surface (A11) Marl (F10) (LRR U) Red Parent Material (F21) 2 Thick Dark Surface (A12) Depleted Ochric (F11) (MLRA 151) Very Shallow Dark Surface (F22) 2 Coast Prairie Redox (A16) (MLRA 150A) Iron-Manganese Masses (F12) (LRR O, P, T) (outside MLRA 138, 152A in FL, 154) 2 Sandy Mucky Mineral (S1) (LRR O, S) Umbric Surface (F13) (LRR P, T, U) Barrier Islands Low Chroma Matrix (TS7) 3 Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A, 150B) Other (Explain in Remarks) 3 Stripped Matrix (S6) Piedmont Floodplain Soils (F20) Murka 149A, 153C, 153D) 4 Normalous Bright Floodplain Soils (F20) MLRA 138, 152A in FL, 154) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. 4 Estrictive Layer (if observed):: Type:	Organic	Bodies (A6) (LRR P	, I, U)	X Depleted M	atrix (F3))		(out	SIDE MLRA 150A, 150B)
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(LRR S, T, U) Very Shallow Dark Surface (F22) (MLRA 138, 152A in FL, 154) wetland hydrology must be present, unless disturbed or problematic. testrictive Layer (if observed): Type:	Polyvalu	e Below Surface (S8	5)	(MLRA 1	49A, 153	C, 153D)	³ Indica	ators of hydrophytic vegetation and
Image: Construction of the second	(LRR	S. T. U)	,	Verv Shallo	w Dark S	Surface (F	, -22)	wet	and hydrology must be present.
Restrictive Layer (if observed): Type: Type:	(0, 1, 0,		(MLRA 1	38, 152A	in FL, 1	54)	unle	ess disturbed or problematic.
Depth (inches):	Restrictive	Layer (if observed):							
Remarks: Nite meets hydric soil criteria.	Depth (i	nches):						Hydric Soil Pres	ent? Yes <u>X</u> No
Site meets hydric soil criteria.	Remarks:								
	3ite meets h	ydric soil criteria.							

Atlantic and Gulf Coastal Plain - Version 2.0



FIELD DATA SHEET

OTHER WATERS OF THE U.S.

Project: Bob Anthony Parkwa	ay Relocation	City/County/Stat	C: Jackson/Hinds/Missi	issippi
Investigator(s): Joe Rujawit	2	Lat: 32.396582° Long: -90.064492°	Sam OW1	ple Location ID: 0
Applicant/Owner: Pearl Riv	ver Valley Water Supply District	Date:	08/15/20	23
Reason for Survey: Wetland	1 Delineation			
River Basin/HUC Number	:031800020601	Tributary Name	(if known): _{Pearl} Riv	er
Size of Watershed: 20,913.	58 Acres	Nearest TNW: Po	arl River	
Size of Drainage Area: 1,95	52,000			
	Tributary subsystem:			
	Ephemeral	Intermittent	Peren	nial
TRIBUTARY	Tributary flows directly int Explain: Yes, tributary is a TN	0 a TNW? IW		
CHARACTERIZATION	Distance to nearest TNW: River Miles: 0 A	Aerial Miles:		
	Describe flow route to TNW	Tributary is a TNW		
	Tributary is (natural / artific Explain: manipulated	ial / manipulated):		
WEATHER CONDITIONS	Current: rain (steady rain) showers (intermittent) cloud cover(%) clear/ sunny air temperature: <u>86</u> (°F)	Has there be Average	en heavy rain in the Rainfall: <u>0</u>	last 7 days? No _ (in.)
	Comment:			
	Predominant surrounding l	anduse:		
WATEDCHED	Forest Co	ommercial	✓ Other (Explain):	
FEATURES	Field/Pasture Inc	dustrial	Area around stream is associated with Spilly and utility easement.	s maintained ROW vay Road, Barnett Reservoir,
	Agricultural Re	esidential		

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

TRIBUTARY FEATURES	Estimated reach length: 180 (ft.) Estimated channel width: 189 (ft.) Estimated channel depth: 25 (ft.) Estimated slope of banks: Substrate: vertical 2:1 3:1 4:1 greater Image: Substrate: Substrate: Substrate: Image: Substrate: Image: Substrate: Image: Substrate:
TRIBUTARY CONDITION	 Tributary has (defined bed and banks / OHWM): Explain: Defined bed and banks. Bank stability (highly eroded, sloughing banks, etc): Explain: Lined with riprap in study area Riffle / Run / Pool complex: No Explain: None observed. Water flow remains deep and turbulent due to dam.
FLOW CONDITIONS	Tributary geometry (relatively straight, meandering, other): Explain: Meandering Current flow is (discrete, confined, overland sheet flow, etc): Explain: confined Average flow events per year:
VEGETATION	Approximate width of riparian buffer: n/a (ft.) Dominant species present (top bank / buffer): Aquatic vegetation present: No Comment: Natural riparian zone lined with riprap in project area,

Appendix C — **Background Information**

USDA NRCS Web Soil Survey USFWS National Wetland Inventory Map USGS National Elevation Dataset USDA National Land Cover Dataset



USDA United States Department of Agriculture

> Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Hinds County, Mississippi, Madison County, Mississippi, and Rankin County, Mississippi

Bob Anthony Parkway Relocation



September 13, 2023







Custom Soil Resource Report

Table—Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
СҮ	Cascilla-Chenneby association	100	4.2	10.1%
w	Water	0	0.9	2.1%
Subtotals for Soil Surve	y Area		5.1	12.2%
Totals for Area of Interes	st		41.9	100.0%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
сс	Cascilla-Calhoun association	94	29.6	70.7%
Subtotals for Soil Surve	y Area		29.6	70.7%
Totals for Area of Interes	st		41.9	100.0%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
2	Cascilla-Arkabutla association, frequently flooded	82	6.4	15.4%
w	Water	0	0.7	1.7%
Subtotals for Soil Survey	y Area		7.2	17.1%
Totals for Area of Interes	st		41.9	100.0%

Rating Options—Hydric Rating by Map Unit

Aggregation Method: Percent Present Component Percent Cutoff: None Specified Tie-break Rule: Lower





LIDAR Digital Elevation Model (2019)



Appendix D — Rainfall Data

Local Recorded Weather

U.S. Depar National O National Er	tment of Co ceanic & Atr wironmenta	mmerce nospheric A I Satellite, D	dministration ata, and Info	mation Servi	8		Ę	Record C	d of Cl bsen	limatolo vations controlled a	gical nd may not				National	Centers for E Ashevi	invironmental 151 Pa lie, North Car	Information tton Avenue olina 28801
Current Lo Station: ST	Cation: Elev.	RSITY, MS	33.4691° N I US USC002	Lon: -88.7822 28374	8			be identical Gen	to the o erated o	riginal obse n 09/05/202	rvations.		Observation	Time Tempe	erature: 0700	Observation	Time Precipi	tation: 0700
			Ter	mperature (F			-	recipitation			Evapo	ration			"Soil Temp	erature (F)"		
>	Z		"24 Hrs. E Observati	Ending at on Time"		24 Ho	ur Amou	nts Ending a	Ŧ	At Obs. Time				4 in. Depth			8 in. Depth	
	0 <i>c+</i> £	0 a >	Max.	.''W	At Obs.	Rain, Meited Snow, Etc. (in)	ш— а D	Snow, Ice Pellets, Hail (in)	u – a D	Snow, Ice Pellets, Hall, Ice on Ground (in)	24 Hour Wind Movement (ml)	Amount of Evap. (in)	Ground Cover (see *)	Мах.	Min.	Ground Cover (see *)	Max.	Min.
2023	07	01	98	17	79	0.00												
2023	07	02	26	76	78	0.00				1								
2023	20	03	96	73	75	0.10												
2023	20	64	22	70	72	0.45												
2023	20	05	88	71	73	0.10												
2023	20	90	91	02	72	0.10												
2023	20	20	92	72	74	0.66												
2023	20	80	89	11	73	0.00												
2023	07	60	93	72	74	1.32												
2023	20	10	86	02	72	0.56												
2023	20	1	86	68	20	0.00												
2023	10	12	89	02	74	0.57												
2023	07	13	89	73	75	0.75												
2023	20	14	88	74	76	0.30				- <u>1</u> 4								
2023	20	15	91	73	75	1.69												
2023	07	16	88	72	74	0.04												
2023	20	17	92	11	73	0.00												
2023	07	18	93	72	74	00.00												
2023	20	19	96	74	78	0.00												
2023	20	20	96	75	17	0.00												
2023	07	21	96	76	78	0.00												
2023	20	22	96	02	72	0.70												
2023	10	23	87	65	67	0.00												
2023	20	24	88	99	68	0.00												
2023	20	25	92	68	76	0.00												
2023	20	26	8	73	75	0.00												
2023	20	27	95	74	76	0.00												
2023	20	28	98	74	76	0.00												
2023	20	29	66	74	76	0.00												
2023	20	30	66	75	11	0.00												
2023	20	31	96	71	73	00.00												
		Summary	93	72		7.34												
Empty, or t	nank, cells i	ndicate that	a data obser	vation was no	of reported.													
-Ground C	over. 1=Gra	ss; 2=Fallow	v; 3=Bare Gr	ound; 4=Bron	ne grass; 5=	=Sod; 6=Stra	w mulch;	7=Grass mut	K; 8=Ba	re muck; 0=1	Jnknown							
S" Inis da	ta value faik	ad one of N	CEI's quality (control tests.	AI	UDS." = Tem	perature	at time of obs	ervation									
action and	inel a long	in in indian	now category		indicate a s	Value was in	-noning	and another the	the second s	d of the most	and the second							
Data value	inconsisten	cy may be p	resent due to	o rounding cal	culations d	uring the con	version p	incress from	SI metric	units to star	idard imperial	units.						



Appendix E — Compiled Maps

Site maps including both Garver and CEI delineated aquatic features.



Site 1 2023 USDA National Agricultural Imagery Program



Site 1 - Alternative B 2023 USDA National Agricultural Imagery Program

Wetland - Emergent



Site 1 - Alternative E 2023 USDA National Agricultural Imagery Program

Wetland - Emergent



Site 2 2023 USDA National Agricultural Imagery Program

Open Water



Site 2 - Alternative B 2023 USDA National Agricultural Imagery Program

Open Water





Bob Anthony Parkway Relocation Madison, Hinds, and Rankin County, Mississippi

Site 2 - Alternative E 2023 USDA National Agricultural Imagery Program





Bob Anthony Parkway Relocation Madison, Hinds, and Rankin County, Mississippi

Site 3 2023 USDA National Agricultural Imagery Program



Legend
Data Points Wetland - Emergent
Open Water Wetland - Forested

Bob Anthony Parkway Relocation Madison, Hinds, and Rankin County, Mississippi

Site 3 - Alternative B 2023 USDA National Agricultural Imagery Program



Legend
Data Points
Data Points
Open Water
Wetland - Emergent
Wetland - Forested

Bob Anthony Parkway Relocation Madison, Hinds, and Rankin County, Mississippi

Site 3 - Alternative E 2023 USDA National Agricultural Imagery Program



Open Water



Site 4 - Alternative B 2023 USDA National Agricultural Imagery Program



Site 4 - Alternative E 2023 USDA National Agricultural Imagery Program

Wetland - Emergent

Open Water



Site 5 2023 USDA National Agricultural Imagery Program



Site 5 - Alternative B 2023 USDA National Agricultural Imagery Program



October 2023





October 2023





2023 USDA National Agricultural Imagery Program




Site 7 - Alternative B 2023 USDA National Agricultural Imagery Program



Site 7 - Alternative E 2023 USDA National Agricultural Imagery Program



Site 8 2023 USDA National Agricultural Imagery Program



Site 8 - Alternative B 2023 USDA National Agricultural Imagery Program



Site 8 - Alternative E 2023 USDA National Agricultural Imagery Program



Wetland - Emergent

CEI Delineated Other Water



Site 9 - Alternative B 2023 USDA National Agricultural Imagery Program



Site 9 - Alternative E 2023 USDA National Agricultural Imagery Program

Wetland - Emergent

CEI Delineated Other Water

WETLAND AND OTHER WATERS ASSESSMENT REPORT

Bob Anthony Parkway Relocation

Madison and Rankin Counties, MS Project Number FLBD-6945-00(013) LPA/108635-800000 FMS Number 108635/801000

Prepared by Cypress Environment and Infrastructure

August 2023



Executive Summary

The Mississippi Department of Transportation is proposing to replace Spillway Road which is currently located on and adjacent to the Ross Barnett Reservoir dam in Jackson, Mississippi. The project is located in Madison and Rankin Counties (West Segment: Sections 34 and 35- Township 7N- Range 2E; East Segment: Section 02- Township 6N- Range 2E).

A total of 21 wetland features (6.01 acres total) and five Other Waters features (2,113 linear feet total) are found in the delineation boundary. The wetlands comprise 5.77 acres of palustrine emergent wetlands and 0.24 acres of palustrine forested wetlands. The Other Waters comprise 878 linear feet of perennial stream and 1,235 linear feet of intermittent stream. The delineation boundary also contains 375 linear feet of ephemeral stream, which does not meet the criteria to be classified as an Other Waters feature but is documented in this report to present a comprehensive assessment of the site. The wetland and Other Waters features should be considered potentially jurisdictional until concurrence is given by a representative of the United States Army Corps of Engineers.

This report presents the presence of potentially jurisdictional wetlands and Other Waters of the United States and does not present potential impacts. This Wetlands and Other Waters Assessment is presented as a supporting document for the Bob Anthony Parkway Relocation Project.

1

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Figure B-9. Map of potentially jurisdictional areas: W13, W12, W14, OW3, and OW4

Figure B-10. Map of potentially jurisdictional areas: W15, W16, and W21Figure B-11. Map of potentially jurisdictional areas: W21, W18, W17, W20, OW5, and OW6Wetland Determination Data Forms and PhotosOther Waters of the U.S. Field Data Sheets and Photos

Appendix C — Background Information

Figure C-1. West Segment Soils Map

Figure C-2. East Segment Soils Map

Figure C-3. National Hydrography Dataset Map

Figure C-4. USFWS National Wetlands Inventory Map

Figure C-5. USGS National Elevation Dataset Map

Figure C-6. USDA National Land Cover Dataset Map

Appendix D — Rainfall Data

Acronyms and Abbreviations

APT BLH	Antecedent Precipitation Tool Bottomland Hardwood
DP	Data Point
HUC	Hydrologic Unit Code
MDOT	Mississippi Department of Transportation
NRCS	Natural Resources Conservation Service
OW	Other Waters of the United States
PEM	Palustrine Emergent
PFO	Palustrine Forested
RHA	River and Harbors Act, Section 10
TMDL	Total Maximum Daily Load
USACE	United States Army Corps of Engineers
USDA	United States Department of Agriculture
USFWS	United States Fish and Wildlife Services
USGS	United States Geological Survey

Chapter 1. Introduction

The purpose of this report is to identify, quantify, and describe potentially jurisdictional areas such as wetlands and Other Waters (OW) of the United States within the delineation boundary. The wetland and OW delineation was conducted by Savannah R. Morales and Bettie Shoemaker of Cypress Environment and Infrastructure. Fieldwork was performed during a site visit from July 11, 2023, through July 13, 2023. This report facilitates the Mississippi Department of Transportation's (MDOT) efforts to document potentially jurisdictional wetland and OW boundary determinations for review by regulatory authorities and to avoid or minimize impacts to potentially jurisdictional wetlands and OW during the design process.

The project is located adjacent to the Bob Anthony Parkway in Madison and Rankin Counties, near Jackson, Mississippi (Section 34- Township 7N- Range 2E, Section 02- Township-6N-Range 2E, and Section 01- Township-6N-Range 2E). See Figures 1a, 1b, 2, and 3 for more detailed location information. This report is presented as a supplemental study to the overall Bob Anthony Parkway Relocation project.



Figures 1a and 1b. State and County Vicinity Maps



Figure 2. 2021 Aerial imagery of delineation area





Chapter 2. Methods

This chapter summarizes the methods used to comply with MDOT, federal, state, and local guidance. Please see Appendix A for further details of the methods used in this report.

Prior to initiation of fieldwork, geographic information system (ArcPro 3.2) software was used to compile known hydrologic, geologic, and other relevant information on the study area. Information was gathered from U.S. Fish and Wildlife Service National Wetland Inventory Maps, the U.S. Department of Agriculture (USDA) Natural Resource Conservation Service (NRCS) Web Soil Survey Maps, U.S. Geological Survey (USGS) Digital Elevation Model, and 2021 aerial photograph. A site visit was conducted from July 11, 2023, through July 13, 2023, to record relevant data on potentially jurisdictional areas for the purposes of Clean Water Act and/or Rivers and Harbors Act permitting. See Appendix C for maps showing soils, the National Hydrography Dataset, the Wetlands Inventory, the National Elevation Dataset contours, and U.S. Geological Survey's National Land Cover Database.

Work will take place along the south side of the Bob Anthony Parkway/ Spillway Road. Specific details and plans of the proposed work are not yet finalized. This report presents information for the west and east segments of the delineation boundary. Potential jurisdictional wetlands within the delineation boundary were documented during the site visit and are described in this report. Wetland determinations were made using observable vegetation, hydrology, and soils in accordance with the routine approach described in the USACE Wetland Delineation Manual (1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region Version 2.0 (2010). Details of wetland and upland areas are described on the Wetland Determination Data Forms – Atlantic and Gulf Coastal Plain Region found in Appendix B. OWs are described on OW Field Data Sheets found in Appendix B. Wetland boundaries and locations were not surveyed by a professional land surveyor but were mapped by a hand-held GPS device with sub-meter accuracy (Trimble TDC650).

Regional supplement datasheets were completed at each Data Point (DP) location. At each DP location soils, vegetation, and hydrology were described, and representative photographs were taken. OW Field Data Sheets were completed for each tributary reach within the delineation boundary and not a full channel reach. Photographs were taken up and down gradient at each OW

assessment site.

After fieldwork was completed, data was entered into GIS software (ArcPro 3.0.2), potentially jurisdictional areas were mapped, and areas and lengths were calculated.

Chapter 3. Existing Conditions

Based upon the site inspection, a total of 21 wetland features (6.01 acres), five perennial or intermittent OW features (~2,113 linear feet), and one ephemeral feature (~375 linear feet) are found within the delineation boundary. Although the ephemeral feature is considered non-jurisdictional, it was characterized and documented in this report to present a comprehensive assessment of the site. All potential jurisdictional areas should be considered preliminary prior to confirmation by USACE. Findings are discussed in Tables 2 through 5.

Landscape Setting

The delineation boundary runs alongside the dam of the Ross Barnett Reservoir which was constructed in 1963. While the construction of the reservoir has disturbed much of the delineation area, enough time has passed that wetlands and OW on site have established wetland vegetation, hydrologic regimes, and hydric soils. The delineation boundary contains a matrix of ridge and swale complexes draining to the Pearl River. Higher undulating planes can be found on the northwest end and hillslopes are present towards the southwest end. Manmade features like ponds and ditches are present within the boundary and have established vegetative communities.

The delineation boundary is within the Brashear Creek-Pearl River subwatershed (USGS Hydrologic Unit Code (HUC) 031800020601). The project is in the Southern Mississippi Valley Loess (134) Major Land Resource Area portion of the South Atlantic and Gulf Slope Cash Crops, Forest, and Livestock Region (LRR P) as described by the NRCS. Dominant land use in the area is undeveloped forest within and southwest of the delineation boundary. The mowed dam lawn and the reservoir rights-of-way are northeast of the delineation boundary. Appendix C includes maps showing Soil Survey data, the National Hydrography Dataset, U.S. Fish and Wildlife Service's National Wetlands Inventory, USGS National Elevation data, and Land Use data.

Hydrology

Rainfall in July of 2023 was typical of Gulf Coastal Plain region with sporadic, heavy afternoon showers, see Appendix D for WETS table. At the time of the survey, the area was under normal conditions according to the USACE's Antecedent Precipitation Tool (APT), see Appendix D for APT results. Rain showers were observed on July 11 and July 12 by field personnel. All OW observed on site were actively flowing during the field survey except the ephemeral feature (OW

4). The flowing OWs were at or below the observable Ordinary High-Water Mark at the time of the survey.

Wetlands 3 and 4 appear to be man-made depressions that are fed by rainfall, runoff, and sub-surface flow from the surrounding landscape. Wetland 3 is impounded and does not have a visible surface water connection under normal conditions. Wetland 4 appears to drain southwest during high water events.

OW 3 drains from the drainage ditches north of the boundary south through a forested wetland. There is a rock checkdam at the edge of the maintained drainage ditch and the forest edge. Water was actively flowing over the rock checkdam during the field visit.

No tributaries within the delineation boundary are on the Mississippi Department of Environmental Quality (MDEQ) Section 303(d) list or have established Total Maximum Daily Loads (TMDL). The receiving waterbody of the reported tributaries, the Pearl River (State Waterbody ID: MS508911), has TMDLs established for DDT, sediment, nitrogen, total phosphorus, and toxaphene. The Pear River is not currently listed as impaired by the MDEQ.

Vegetation

Wetland plant communities within the delineation boundary include swamp, emergent wetland, and bottomland hardwood forest. Swamp areas are dominated by water tupelo (*Nyssa aquatica*) and cypress (*Taxodium distichum*). Emergent wetlands are within maintained areas and are dominated by smartweed (*Persicaria hydropiperoides*). Bottomland hardwood forests are dominated by several oak species (*Quercus spp.*), Chinese tallow (*Triadica sebifera*), sugarberry (*Celtis laevigata*), cypress (*T. distichum*), river birch (*Betula nigra*), silver maple (*Acer saccharinum*), and/or water tupelo (*N. aquatica*), and a small Chinese tallow (*T. sebifera*) grove. See Table 2 for habitat type associated with each wetland feature. Upland plant communities within the delineation boundary include mixed community hardwood forest dominated in the tree strata by black cherry (*Prunus seratina*), musclewood (*Carpinus caroliniana*), various oaks (*Quercus spp.*), various hickories (*Carya spp.*) American hop hornbeam (*Ostrya virginiana*), Chinese tallow (*T. sebifera*), sugarberry (*C. laevigata*), cypress (*T. distichum*), gallberry (*Ilex glabra*), various pines (*Pinus spp.*), and sweetgum (*Liquidambar styraciflua*). See Wetland Determination Data Forms in Appendix B for a detailed description of vegetative species within the delineation boundary.

Soils

Soils found in the project area are mapped as Cascilla-Arkabutla association, frequently flooded, and Cascilla-Calhoun association. Both soil types are classified as predominantly hydric (>80% hydric) by the USDA NRCS. See Table 1 and Wetland Determination Data Forms in Appendix B for detailed soil conditions at each data point. Figures 6 and 7 in Appendix B show the distribution of soils across the delineation boundary.

Soil Series	Component/ Local Phase	Component Percent	Landform	Hydric Status	Area (Acres)
Cascilla-	Cascilla	60	Flood plains	Yes	
Calhoun	Calhoun	22	Terraces	Yes	34.40
association	Gillsburg	12	Flood plains	Yes	
Cascilla-	Cascilla	43	Flood plains	Yes	
Arkabutla association, frequently flooded	Arkabutla	34	Flood plains	Yes	34.11
	Unnamed hydric soils (134fp)	5	Flood plains	Yes	

Table 1. Detailed soil resource table

Wetlands and Other Waters

This report is a delineation report supplemental to the full delineation and impact report. As of the time of this writing, the specific project components have not been finalized. This report presents only the presence of potentially jurisdictional wetlands and OW of the U.S. within the delineation boundary. No impacts are presented.

There were 21 wetland features observed within the boundary. See Table 2 for the list of wetland features. Most of the wetland features are part of a ridge and swale matrix found across the landscape in association with the nearby Pearl River. Most of the wetland features are supported by precipitation and groundwater from the surrounding landscape. Some wetland features are isolated depressional wetlands while others are associated with potential OW of the U.S. A total of 6.01 acres of wetlands were observed within the boundary comprising 5.77 acres of forested wetlands and 0.24 acres of emergent wetlands. See the Wetland Determination Data

Forms and associated photographs for detailed wetland descriptions. See Appendix B for detailed figures of wetlands features present across the site.

There were four perennial OW features totaling 878 linear feet, one intermittent OW feature totaling 1,235 linear feet, and one ephemeral feature totaling 375 linear feet within the boundary. OW 1 starts within the forested area of the delineation boundary and flows southwest ultimately draining into the Pear River. OW 2, 3, and 5 are perennial and connected to drainage ditches along the dam levee, water flows south eventually draining into the Pearl River. OW 6 is a man-made drainage feature running parallel to the dam levee flowing northwest and draining into OW 5. OW 4 is an ephemeral feature that starts in an area of low topography and drains into OW 3. OW 4 was predominantly dry during the time of survey despite recent rains. Minimal water was present in OW 4 where the feature meets OW 3. Given the event-based flow regime of OW 4, it is the opinion of Cypress that OW 4 is not jurisdictional under the Clean Water Act. See Appendix B for detailed figures of OW features present across the site.



Figure 4. Potentially jurisdictional wetlands and Other Waters of the U.S.

Data Point	Wetland ID	Figure #	Latitude	Longitude	Section- Township- Range	Cowardin Classification	Habitat	Area
DP1	W1	5a	32.411467	-90.088790	S34,T7N,R2E	PEM	Emergent	0.03
DP4	W2	5b	32.407915	-90.083433	S34,T7N,R2E	PFO	BLH	0.02
DP6	W3	5b	32.406492	-90.081256	S34,T7N,R2E	PFO	Swamp	0.53
DP6	W4	5b	32.407040	-90.081986	S34,T7N,R2E	PFO	Swamp	0.63
DP3	W5	5c	32.405347	-90.079452	S34,T7N,R2E	PFO	BLH	0.39
DP10	W6	5d	32.402404	-90.075018	S34,T7N,R2E	PFO	Swamp	0.23
DP12	W7	5d	32.401704	-90.073898	S34,T7N,R2E	PFO	BLH	0.28
DP12	W8	5d	32.401238	-90.073201	S34,T7N,R2E	PFO	BLH	0.06
DP12	W9	5d, 5e	32.401055	-90.072615	S34,T7N,R2E	PFO	BLH	0.14
DP14	W10	5f	32.395159	-90.063507	S02,T6N,R2E	PFO	BLH	0.17
DP16	W11	5f	32.394262	-90.062111	S02,T6N,R2E	PFO	Swamp	0.32
DP16	W12	5f, 5g	32.393489	-90.060904	S02,T6N,R2E	PFO	Swamp	0.77
-	W13	5f, 5g	32.394094	-90.061133	S02,T6N,R2E	PEM	Emergent	0.09
DP17	W14	5g	32.392042	-90.058329	S02,T6N,R2E	PFO	BLH	0.26
-	W15	5h	32.390261	-90.056346	S02,T6N,R2E	PFO	Tallow Forest	0.04
DP20	W16	5h	32.389064	-90.054122	S01,T6N,R2E	PFO	BLH	0.43
DP23	W17	5i	32.387863	-90.050944	S01,T6N,R2E	PFO	BLH	0.85
-	W18	5i	32.388356	-90.051957	S01,T6N,R2E	PEM	Emergent	0.10
DP22	W19	5i	32.388074	-90.052338	S01,T6N,R2E	PFO	Swamp	0.52
DP24	W20	5i	32.387506	-90.051243	S01,T6N,R2E	PFO	BLH	0.12
-	W21	5i	32.389144	-90.053063	S01,T6N,R2E	PEM	Emergent	0.02

Table 2. Wetland Table

DP- Data point- collection point for sampling data for wetland assessment PFO- Palustrine Forested PEM- Palustrine Emergent BLH- Bottomland Hardwood Forest

Table 3.	Wetland	Summary	Table
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Wetland Summary	Total Acres Present
Forested	5.77
Scrub-Shrub	0
Emergent	0.24
Total	6.01

Table 4.	Other Waters	of the U.S.	Assessment Table
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Channel Assessment	Figure #	Latitude	Longitude	Section Township Range	Туре	Length in Project Area (feet)	Channel Width (feet)	Name
OW1	5d	32.402404	-90.074962	S34,T7N,R2E	Intermittent	164	15	Unnamed
OW2	5f	32.394360	-90.062121	S02,T6N,R2E	Perennial	380	8	Unnamed
OW3	5f, 5g	32.393329	-90.061035	S02,T6N,R2E	Perennial	438	10	Unnamed
OW4	5f, 5g	32.393194	-90.060238	S02,T6N,R2E	Ephemeral	375	20	Unnamed
OW5	5i	32.388059	-90.052322	S01,T6N,R2E	Perennial	417	10	Pelahatchie Creek
OW6	5i	32.387896	-90.051052	S01,T6N,R2E	Perennial	714	4	Unnamed

Other Waters Assessment Summary	Total Linear Feet Present
Perennial	878
Intermittent	1,235
Ephemeral (non-jurisdictional)	375
Total Linear Feet	2,488

Table 5. Other Waters of the U.S. Assessment Summary Table

Chapter 4. References

ESRI. ArcGIS Map Service: World_Imagery. Exported July 25, 2023.

- Mississippi Automated Resource Information System (MARIS). Accessed 2023. Hydrologic Features, Watershed Data, and other GIS information.
- Mississippi Department of Environmental Quality (MDEQ). TMDL Tool version 1.31. Spring 2022 Release. https://opcgis.deq.state.ms.us/tmdltool/. Accessed July 27, 2023.
- U.S. Army Corps of Engineers (USACE). Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1. U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.
- U.S. Army Corps of Engineers (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. EDRC/ EL TR- 10-20. Vicksburg, MS: U.S. Army Engineer Research and Development Center.
- U.S. Army Corps of Engineers (USACE). 2020. *National Wetland Plant List, version 3.5.* U.S. Army Corps of Engineer Research and Development Center. Cold Regions Research and Engineering Laboratory, Hanover, NH.
- U.S. Department of Agriculture (USDA). Natural Resource Conservation Service (NRCS). 2006. *Field Indicators of the Hydric Soils in the United States*. Version 8.2. ed. L. M. Vasilas, G. W. Hurt, and J. F. Berkowitz. USDA, NRCS, in cooperation with the National Technical Committee for Hydric Soils.
- U.S. Department of Agriculture (USDA). Natural Resource Conservation Service (NRCS). 2022. 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.
- U.S. Department of Agriculture (USDA). Natural Resource Conservation Service (NRCS). Web Soil Survey- Custom Soil Report, websoilsurvey.nrcs.usda.gov, Accessed: July 7, 2023
- United States Fish and Wildlife Service (USFWS). 1979. *Classification of Wetlands and Deepwater Habitats of the United States* by Cowardin LM, Carter V, Golet FC, LaRoe ET. FWS/ OBS-79/31.

United States Fish and Wildlife Service (USFWS). National Wetland Inventory (NWI) maps.

- United States Geological Survey. National Elevation Dataset Digital Elevation Model. Obtained from the USGS Data Download Application, <u>https://apps.nationalmap.gov/downloader/</u>. Accessed July 24, 2023.
- Weather Underground. https://www.wunderground.com/calendar/us/ms/pearl/KJAN. Accessed July 24, 2023.

Appendix A — Methods and Tools

Parameter	Method or Tool	Website	Reference
Wetland Delineation	1987 Manual	http://el.erdc.usace.army.mil/elpu bs/pdf/wlman87.pdf	Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual, Technical Report Y-87-1, US. Army Engineer Waterways Experiment Station, Vicksburg, Miss.
	Regional Supplement	http://el.erdc.usace.army.mil/elpu bs/pdf/trel10-20.pdf	U.S. Army Corps of Engineers. 2010. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (Version 2.0), ed. J.S. Wakely, R.W. Lichvar, and C.V. Noble. ERDC/ EL TR-10-20. Vicksburg, MS: U.S. Army Engineer Research and Development Center.
Wetland Classification	USFWS / Cowardin Classification System	http://www.fws.gov/nwi/Pubs_Re ports/Class_Manual/class_titlepg. htm	Cowardin, L. M., V. Carter, F. C. Golet, E. T. LaRoe. 1979. <i>Classification of wetlands and deepwater habitats</i> <i>of the United States</i> . Government Printing Office, Washington, D.C.
Other Waters Delineation	ОНWM	http://www.usace.army.mil/inet/fu nctions/cw/cecwo/reg/33cfr328.ht <u>m</u>	Congressional Federal Register 33 Part 328 Definition of Waters of the United States.
Plant	BONAP	http://www.bonap.org/	Kartesz, J.T. 2014. Floristic Synthesis of North America, Version 1.0 Biota of North America Program (BONAP). (in press).
	National Wetland Plant List	https://cwbi- app.sec.usace.army.mil/nwpl_stati c/v34/home/home.html	U.S. Army Corps of Engineers 2020. National Wetland Plant List, version 3.5 U.S. Army Corps of Engineers Engineer Research and Development Center Cold Regions Research and Engineering Laboratory, Hanover, NH
Soils Data	Soil Survey	https://websoilsurvey.nrcs.usda.go v/app/WebSoilSurvey.aspx	Website
	Hydric Soil Indicators	http://soils.usda.gov/use/hydric/	USDA Natural Resources Conservation Service. 2018. Field indicators of hydric soils in the United States, Version 8.2. L. M. Vasilas. G. W. Hurt, and J. F. Berkowitz. USDA, NRCS, in cooperation with the National Technical Committee for Hydric Soils
Climate Data	Wets Table	http://www.wcc.nrcs.usda.gov/cli mate/wetlands.html	Website
	Rainfall Data	https://www.ncei.noaa.gov/access /us-climate- normals/#dataset=normals- monthly&timeframe=30&location =MS&station=US1MSMD0001	NOAA National Centers for Environmental Information U.S. Climate Normals
	Local Weather	http://www.wunderground.com/	Website

Table A-1. Methods and tools used to prepare the report.

Appendix B — **Detailed Site Information**

Site maps, plan and profile sheets, Wetland Determination Data Forms, Other Water Field Datasheets, site photographs






















Wetland Determination Data Forms- Atlantic and Gulf Coastal Plain Region and Photos

	Bob Anth	nony Parkway Relo	cation	Co	unty:	Madison	Sampling Date:	: July 11, 2023
Applicant/Owner:		Mississippi Depart	ment of Transport	tation	State	: <u> </u>	Mississippi Sample Point:	DP1
Investigator(s):	Savannah R. Mora	ales and	Bettie Shoe	maker	Section, Township,	Range:	S34, 1	T7N, R2E
Landform (hillslope, terrace	e, etc.):	S	lough		Local relief (conca	ave, convex, none	e): Concave	Slope (%): 0-5
Subregion (LRR or MLRA):		LRR P,	MLRA 134		Lat: 32.4	1145 L	_ong:	Datum: NAD 83
Soil Map Unit Name:			Cascilla-Calho	oun association			NWI Classification:	N/A
Are climatic / hydrologic co	nditions on the site ty	pical for this time o	f year?	()	res / No)	Yes	(If no, explain in Remarks.)	
Are Vegetation	,301	No or Hydrold	ogy <u>No</u>	significantiy	ulsiulbeu?	Are Normai Circ	eeded explain any answers in l	Remarks)
SUMMARY OF FIN	DINGS - Attach	site map sho	owing sampl	ling point l	ocations. tran	sects, impo	rtant features, etc.	rtemarks.)
			N-					
Hydrophylic Vegetation Pl Hydric Soil Present?	resent?	Yes X	No		Is the Sampled	Area		
Wetland Hydrology Prese	ent?	Yes X	No		within a Wetlan	d?	Yes X	No
- · ·								
Remarks: This point was deter	mined to be within a w	vetland due to the r	presence of all thr	ree wetland crite	ria			
				oo notana ona				
Wotland bydrology	Indicators							
wettand hydrology	indicators.						Secondary Indicators (minimu	um of two required)
Primary Indicators (n	minimum of one is req	uired; check all tha	t apply)	Equipo (P12)			Surface Soil Cracks (B6)
X High Water T	El (A1) Table (A2)		Aqualic Marl De	enosits (B15)	RR U)		Drainage Patterns (B	10)
X Saturation (A	(3)		Hvdrog	en Sulfide Odor	(C1)		Moss Trim Lines (B16	5)
Water Marks	s (B1)		Oxidize	d Rhizospheres	on Living Roots(C	3)	Dry-Season Water Ta	able (C2)
Sediment De	eposits (B2)		Presen	ce of Reduced	ron (C4)		X Crayfish Burrows (C8	3)
Drift Deposits	s (B3)		Recent	Iron Reduction	in Tilled Soils (C6)		Saturation Visible on	Aerial Imagery (C9)
X Algal Mat or 0	Crust (B4)		Thin Mu	uck Surface (C7)		X Geomorphic Position	(D2)
Iron Deposits	s (B5)		Other (I	Explain in Rema	arks)		Shallow Aquitard (D3))
Inundation Vi	isible on Aerial Image	ry (B7)					X FAC-Neutral Test (D5	5)
Water-Staine	ed Leaves (B9)					-	Sphagnum moss (D8) (LRR T, U)
Field Observations:								
Surface Water Present?	Yes	X No		Depth (inches):	1	Wetland Hydro	logy Present? Yes	
Water Table Present?	Yes	X No		Depth (inches):	0			
Saturation Present?	Yes	X No	المتعاملين	Depth (inches):	>16			
Describe Recorded I	Data (stream gauge, r	nonitoring well, aer	nai priotos, previo	ous inspections)	, il avallable:			
Remarks:								
A positivo indication	of wotland bydrology	was absorved (at l	oast one primary	indicator)				
A positive indication	or wettand hydrology	was observed (at r	east one primary	indicator).				
SOIL								
Profile Description:	: (Describe to the de	epth needed to do	ocument the indi	icator or confir	m the absence of	indicators.)		
Profile Description:	: (Describe to the de Matrix	epth needed to do	ocument the indi	icator or confi Redox Fea	m the absence of	indicators.)		
Profile Description: Depth	: (Describe to the de Matrix Color (moist)	epth needed to do	coument the indi	icator or confi Redox Fea	m the absence of atures Type ¹	indicators.)	Texture	Remarks
Profile Description: Depth	: (Describe to the de Matrix Color (moist) 10YR 5/2	epth needed to do 	color (moist) 10YR 4/6	icator or confi Redox Fea <u>%</u> 5	m the absence of ^{tures} <u>Type¹</u> C	Findicators.)	Texture	Remarks
Profile Description: Depth	: (Describe to the de Matrix Color (moist) 10YR 5/2 10YR 6/1	epth needed to do <u>%</u> C <u>95</u> <u>80</u>	color (moist) 10YR 4/6 10YR 5/6	icator or confin Redox Fea % 5 20	m the absence of tures Type ¹ C C	indicators.)	Texture Silt Loam Silt Loam	Remarks
Profile Description: Depth	: (Describe to the de Matrix Color (moist) 10YR 5/2 10YR 6/1 10YR 6/2		Color (moist) 10YR 4/6 10YR 5/6 10YR 5/6	icator or confi Redox Fea % 5 20 30	m the absence of tures <u>Type¹</u> <u>C</u> <u>C</u> <u>C</u>	Loc ² M PL M	Texture Silt Loam Silt Loam Silt Loam	Remarks
Profile Description: Depth	: (Describe to the do Matrix Color (moist) 10YR 5/2 10YR 6/1 10YR 6/2	meeded to do	Color (moist) 10YR 4/6 10YR 5/6 10YR 5/6	icator or confii Redox Fea <u>%</u> 5 20 30	m the absence of tures <u>Type¹</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u>	Loc ² M PL M	Texture Silt Loam Silt Loam Silt Loam	Remarks
Profile Description: Depth	: (Describe to the do Matrix Color (moist) 10YR 5/2 10YR 6/1 10YR 6/2 ation. D=Depletion. Rf	needed to do	color (moist) 10YR 4/6 10YR 5/6 10YR 5/6 10YR 5/6	icator or confi Redox Fee <u>%</u> <u>5</u> 20 <u>30</u> 	m the absence of tures C C C C C C	Loc ² M PL M ² Location: PL =P	Texture Silt Loam Silt Loam Silt Loam	Remarks
Profile Description: Depth	: (Describe to the de Matrix Color (moist) 10YR 5/2 10YR 6/1 10YR 6/2 attion, D=Depletion, R/ tors: (Applicable to	epth needed to do <u>%</u> C <u>95</u> <u>80</u> <u>70</u> M=Reduced Matrix all LRRs, unless	color (moist) 10YR 4/6 10YR 5/6 10YR 5/6 	icator or confi Redox Fea 	m the absence of tures C C C C C C	Loc ² M PL M ² Location: PL=P	Texture Silt Loam Silt Loam Silt Loam Silt Loam Core Lining, M=Matrix. Indicators for Problematic	Remarks
Profile Description: Depth	: (Describe to the de Matrix Color (moist) 10YR 5/2 10YR 6/1 10YR 6/2 ation, D=Depletion, Rf tors: (Applicable to	Appth needed to do <u>%</u> C <u>95</u> <u>80</u> <u>70</u> M=Reduced Matrix all LRRs, unless	ocument the indi color (moist) 10YR 4/6 10YR 5/6 10YR 5/6 , MS=Masked Sar otherwise noted Polyvalu	icator or confi Redox Fea 	m the absence of tures C C C C e (S8) (LRR S, T, L	^T indicators.) <u>Loc²</u> <u>M</u> <u>PL</u> <u>M</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u>	Texture Silt Loam Silt Loam Silt Loam Silt Loam Core Lining, M=Matrix. Indicators for Problematic 1 cm Muck (A9) (LRR	Remarks Hydric Soils ³ : O)
Profile Description: Depth	: (Describe to the de Matrix Color (moist) 10YR 5/2 10YR 6/1 10YR 6/2 ation, D=Depletion, Rf tors: (Applicable to on (A2)	% C 95 80 70 W=Reduced Matrix all LRRs, unless	Document the indi Color (moist) 10YR 4/6 10YR 5/6 10YR 5/6 	icator or confir Redox Fea 	m the absence of <u>Type¹</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u>	indicators.) Loc ² M PL M ² Location: PL=P	Texture Silt Loam Silt Loam Silt Loam Orer Lining, M=Matrix. Indicators for Problematic 1 cm Muck (A9) (LRR 2 cm Muck (A10) (LRR	Remarks Hydric Soils ³ : O) R S)
Profile Description: Depth	: (Describe to the de Matrix Color (moist) 10YR 5/2 10YR 6/1 10YR 6/2 ation, D=Depletion, Rf tors: (Applicable to on (A2) X3)	% C 95	Document the indi Color (moist) 10YR 4/6 10YR 5/6 10YR 5/6 	icator or confir Redox Fea 	m the absence of <u>tures</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u>	F indicators.) Loc ² M PL M 2Location: PL=P	Texture Silt Loam Silt Loam Silt Loam Silt Loam Core Lining, M=Matrix. Indicators for Problematic 1 cm Muck (A9) (LRR 2 cm Muck (A10) (LRR Reduced Vertic (F18) (Remarks Hydric Soils ³ : O) R S) (outside MLRA 150A,B)
Profile Description: Depth	: (Describe to the de Matrix Color (moist) 10YR 5/2 10YR 6/1 10YR 6/2 ation, D=Depletion, Rf tors: (Applicable to on (A2) \\3) fide (A4)	meeded to do m	ocument the indi color (moist) 10YR 4/6 10YR 5/6 10YR 5/6 , MS=Masked Sar otherwise noted Polyvalue Thin Dar Loamy M Loamy G	icator or confi Redox Fea <u>%</u> <u>5</u> <u>20</u> <u>30</u> <u>30</u> <u>4.</u> e Below Surface k Surface (S9) I Aucky Mineral (F Sleyed Matrix (F	m the absence of <u>Type¹</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u>	indicators.) Loc ² M PL M ² Location: PL=P	Texture Silt Loam Silt Loam Silt Loam Silt Loam Core Lining, M=Matrix. Indicators for Problematic 1 cm Muck (A9) (LRR 2 cm Muck (A10) (LRR Reduced Vertic (F18) (Piedmont Floodplain S	Remarks Hydric Soils ³ : O) R S) (outside MLRA 150A,B) oils (F19) (LRR P, S, T)
Profile Description: Depth	: (Describe to the de Matrix Color (moist) 10YR 5/2 10YR 6/1 10YR 6/2 ation, D=Depletion, Rf tors: (Applicable to on (A2) \\3) fide (A4) ers (A5)	meeded to do m	Color (moist) 10YR 4/6 10YR 5/6 10YR 5/6 MS=Masked Sat otherwise noted Polyvalue Thin Dar Loamy M Loamy G X Depleted	icator or confi Redox Fea <u>%</u> <u>5</u> <u>20</u> <u>30</u> <u>30</u> <u>40</u> e Below Surface k Surface (S9) I Aucky Mineral (F Sleyed Matrix (F3)	m the absence of <u>Type¹</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u>	indicators.) Loc ² M PL M 2Location: PL=P	Texture Silt Loam Silt Loam Silt Loam Silt Loam Core Lining, M=Matrix. Indicators for Problematic 1 cm Muck (A9) (LRR 2 cm Muck (A10) (LRR Reduced Vertic (F18) (Piedmont Floodplain S Anomalous Bright Loar	Remarks Hydric Soils ³ : O) R S) (outside MLRA 150A,B) oils (F19) (LRR P, S, T) my Soils (F20)
Profile Description: Depth	: (Describe to the de <u>Matrix</u> <u>Color (moist)</u> <u>10YR 5/2</u> <u>10YR 6/1</u> <u>10YR 6/2</u> <u>ation, D=Depletion, Rf</u> tors: (Applicable to on (A2) A3) fide (A4) ers (A5) es (A6) (LRR P, T, U)	epth needed to do	Decument the indi color (moist) 10YR 4/6 10YR 5/6 10YR 5/6 	icator or confi Redox Fea <u>%</u> <u>5</u> <u>20</u> <u>30</u> <u>30</u> <u>30</u> and Grains. A.) the Below Surface ik Surface (S9) I Aucky Mineral (F Sleyed Matrix (F3) ark Surface (F6) ark Surface (F6)	m the absence of <u>Type¹</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u>	indicators.) Loc ² M PL M 2Location: PL=P	Texture Silt Loam Silt Loam Silt Loam Pore Lining, M=Matrix. Indicators for Problematic 1 cm Muck (A9) (LRR 2 cm Muck (A10) (LRR Reduced Vertic (F18) (Piedmont Floodplain S Anomalous Bright Loar (MLRA 153B)	Remarks Hydric Soils ³ : O) R S) (outside MLRA 150A,B) oils (F19) (LRR P, S, T) my Soils (F20)
Profile Description: Depth	: (Describe to the de <u>Matrix</u> <u>Color (moist)</u> <u>10YR 5/2</u> <u>10YR 6/1</u> <u>10YR 6/2</u> <u>10YR 6/2</u> <u>ation, D=Depletion, Rf</u> tors: (Applicable to on (A2) A3) fide (A4) ors (A5) ss (A6) (LRR P, T, U) dineral (A7) (LRR P, T, U)	epth needed to do	Decument the indi Solor (moist) 10YR 4/6 10YR 5/6 10YR 5/6 	icator or confir Redox Fea <u>%</u> <u>20</u> <u>30</u> <u>30</u> and Grains. I.) e Below Surface k Surface (S9) Mucky Mineral (F Bleyed Matrix (F3) Dark Surface (F6 d Dark	m the absence of <u>Type¹</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u>	indicators.) Loc ² M PL M 2Location: PL=P	Texture Silt Loam Silt Loam Silt Loam Silt Loam Core Lining, M=Matrix. Indicators for Problematic 1 cm Muck (A9) (LRR 2 cm Muck (A10) (LRR Reduced Vertic (F18) (Piedmont Floodplain S Anomalous Bright Loar (MLRA 153B) Red Parent Material (T Vore Shallow Pari)	Remarks Hydric Soils ³ : O) X S) (outside MLRA 150A,B) oils (F19) (LRR P, S, T) my Soils (F20) (F2) from (TE12)
Profile Description: Depth (inches) 0-1 1-12 12-16 ¹ Type: C=Concentra Hydric Soils Indicat Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye Organic Bolie 5 cm Mucky M Muck Presenc 1 cm Muck (M	: (Describe to the de <u>Matrix</u> <u>Color (moist)</u> <u>10YR 5/2</u> <u>10YR 6/1</u> <u>10YR 6/2</u> <u>10YR 6/2</u> <u>ation, D=Depletion, RI</u> tors: (Applicable to on (A2) A3) fide (A4) ors (A5) ss (A6) (LRR P, T, U) dineral (A7) (LRR P, T) se (A8) (LRR V) 9) (LRR P, T)	epth needed to do	Decument the indi Solor (moist) 10YR 4/6 10YR 5/6 10YR 5/6 10YR 5/6 	icator or confir Redox Fea <u>%</u> <u>20</u> <u>30</u> <u>30</u> and Grains. I.) e Below Surface k Surface (S9) Mucky Mineral (F Sleyed Matrix (F3) Dark Surface (F6 d Dark Surface (F6 d Dark Surface (F6 0) (J F2 I))	m the absence of <u>Type¹</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u>	indicators.) Loc ² M PL M 2Location: PL=P	Texture Silt Loam Silt Loam Silt Loam Silt Loam Core Lining, M=Matrix. Indicators for Problematic Core Muck (A9) (LRR Core Muck (A10) (Remarks Hydric Soils ³ : 0) 8 S) (outside MLRA 150A,B) ioils (F19) (LRR P, S, T) my Soils (F20) F2) face (TF12) arks)
Profile Description: Depth	: (Describe to the de <u>Matrix</u> <u>Color (moist)</u> <u>10YR 5/2</u> <u>10YR 6/1</u> <u>10YR 6/2</u> <u>10YR 6/2</u> <u>ation, D=Depletion, Rf</u> tors: (Applicable to on (A2) A3) fide (A4) ors (A5) ss (A6) (LRR P, T, U) dineral (A7) (LRR P, T se (A8) (LRR P, T) wy Dark Surface (A11)	epth needed to do	Decomment the indi Solor (moist) 10YR 4/6 10YR 5/6 10YR 5/6 10YR 5/6 	icator or confii Redox Fea <u>%</u> <u>5</u> <u>20</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u>	m the absence of <u>Type¹</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u>	indicators.) Loc ² M PL M 2Location: PL=P	Texture Silt Loam Silt Loam Silt Loam Silt Loam Core Lining, M=Matrix. Indicators for Problematic 1 cm Muck (A9) (LRR 2 cm Muck (A0) (LRR 2 cm Muck (A10) (LRR Reduced Vertic (F18) (Piedmont Floodplain S Anomalous Bright Loar (MLRA 153B) Red Parent Material (T Very Shallow Dark Sur Other (Explain in Rema	Remarks Hydric Soils ³ : O) R S) (outside MLRA 150A,B) oils (F19) (LRR P, S, T) my Soils (F20) F2) face (TF12) arks)
Profile Description: Depth	: (Describe to the de <u>Matrix</u> <u>Color (moist)</u> <u>10YR 5/2</u> <u>10YR 6/1</u> <u>10YR 6/2</u> <u>10YR 6/2</u> <u>ation, D=Depletion, RI</u> tors: (Applicable to on (A2) A3) fide (A4) ars (A5) ss (A6) (LRR P, T, U) dineral (A7) (LRR P, T U) 9) (LRR P, T) we Dark Surface (A11) Inface (A12)	Appth needed to do	Decument the indi Solor (moist) 10YR 4/6 10YR 5/6 10YR 5/6 10YR 5/6 	icator or confii Redox Fea <u>%</u> <u>20</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>3</u>	m the absence of <u>tures</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u>	Tindicators.)	Texture Silt Loam Silt Loam Silt Loam Silt Loam Core Lining, M=Matrix. Indicators for Problematic 1 cm Muck (A9) (LRR 2 cm Muck (A10) (LRR 2 cm Muck (A10) (LRR Reduced Vertic (F18) (Piedmont Floodplain S Anomalous Bright Loar (MLRA 153B) Red Parent Material (T Very Shallow Dark Sur Other (Explain in Rema ³ Indicators of hydrop	Remarks Hydric Soils ³ : O) R S) (outside MLRA 150A,B) oils (F19) (LRR P, S, T) my Soils (F20) F2) face (TF12) arks) phytic vegetation and wetland
Profile Description: Depth	: (Describe to the de <u>Matrix</u> <u>Color (moist)</u> <u>10YR 5/2</u> <u>10YR 6/1</u> <u>10YR 6/2</u> <u>10YR 6/2</u> <u>ation, D=Depletion, Rf</u> tors: (Applicable to on (A2) A3) fide (A4) ors (A5) ss (A6) (LRR P, T, U) dineral (A7) (LRR P, T ze (A8) (LRR P, T) we Dark Surface (A11) Inface (A12) Redox (A16) (MLRA 4)	epth needed to do <u>95</u> <u>80</u> <u>70</u> <u>W=Reduced Matrix</u> all LRRs, unless	Decement the indi Solor (moist) 10YR 4/6 10YR 5/6 10YR 5/6 10YR 5/6 	icator or confii Redox Fea <u>%</u> <u>5</u> <u>20</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u>	m the absence of <u>tures</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u>	Tindicators.)	Texture Silt Loam Silt Loam Silt Loam Silt Loam Core Lining, M=Matrix. Indicators for Problematic 1 cm Muck (A9) (LRR 2 cm Muck (A10) (LRR Reduced Vertic (F18) (Piedmont Floodplain S Anomalous Bright Loar (MLRA 153B) Red Parent Material (T Very Shallow Dark Sur Other (Explain in Rema ³ Indicators of hydrog hydrology must be p	Remarks Hydric Soils ³ : O) R S) (outside MLRA 150A,B) oils (F19) (LRR P, S, T) my Soils (F20) 'F2) face (TF12) arks) phytic vegetation and wetland oresent, unless disturbed or
Profile Description: Depth	: (Describe to the de <u>Matrix</u> <u>Color (moist)</u> <u>10YR 5/2</u> <u>10YR 6/1</u> <u>10YR 6/2</u> <u>10YR 6/2</u> <u>ation, D=Depletion, Rf</u> tors: (Applicable to on (A2) A3) fide (A4) ors (A5) es (A6) (LRR P, T, U) dineral (A7) (LRR P, T ze (A8) (LRR V, 19) 9) (LRR P, T) we Dark Surface (A11) inface (A12) Redox (A16) (MLRA '	epth needed to do <u>95</u> <u>80</u> <u>70</u> <u>W=Reduced Matrix</u> all LRRs, unless	Decement the indi Solor (moist) 10YR 4/6 10YR 5/6 10YR 5/6 10YR 5/6 	icator or confii Redox Fea <u>%</u> <u>5</u> <u>20</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u>	m the absence of <u>tures</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u>	Tindicators.)	Texture Silt Loam Silt Loam Silt Loam Silt Loam Core Lining, M=Matrix. Indicators for Problematic 1 cm Muck (A9) (LRR 2 cm Muck (A10) (LRR Reduced Vertic (F18) (Piedmont Floodplain S Anomalous Brigh Loar (MLRA 153B) Red Parent Material (T Very Shallow Dark Sur Other (Explain in Rema ³ Indicators of hydroj hydrology must be p problematic.	Remarks Hydric Soils ³ : O) R S) (outside MLRA 150A,B) oils (F19) (LRR P, S, T) my Soils (F20) F2) face (TF12) arks) phytic vegetation and wetland oresent, unless disturbed or
Profile Description: Depth	: (Describe to the de <u>Matrix</u> <u>Color (moist)</u> <u>10YR 5/2</u> <u>10YR 6/1</u> <u>10YR 6/2</u> <u>10YR 6/2</u> <u>ation, D=Depletion, Rf</u> tors: (Applicable to on (A2) A3) fide (A4) ors (A5) ss (A6) (LRR P, T, U) dineral (A7) (LRR P, T ze (A8) (LRR P, T) we Dark Surface (A11) inface (A12) Redox (A16) (MLRA · Mineral (S1) (LRR O, I Matrix (S4)	epth needed to do <u>95</u> <u>80</u> <u>70</u> <u>W=Reduced Matrix</u> all LRRs, unless	Decement the indi Solor (moist) 10YR 4/6 10YR 5/6 10YR 5/6 10YR 5/6 	icator or confii Redox Fea <u>%</u> <u>5</u> <u>20</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u>	m the absence of <u>tures</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u>	Tindicators.)	Texture Silt Loam Silt Loam Silt Loam Silt Loam Core Lining, M=Matrix. Indicators for Problematic 1 cm Muck (A9) (LRR 2 cm Muck (A10) (LRR Reduced Vertic (F18) (Piedmont Floodplain S Anomalous Bright Loar (MLRA 153B) Red Parent Material (T Very Shallow Dark Sur Other (Explain in Rema ³ Indicators of hydroj hydrology must be p problematic.	Remarks Hydric Soils ³ : O) RS) (outside MLRA 150A,B) oils (F19) (LRR P, S, T) my Soils (F20) F2) face (TF12) arks) phytic vegetation and wetland oresent, unless disturbed or
Profile Description: Depth	: (Describe to the de <u>Matrix</u> <u>Color (moist)</u> <u>10YR 5/2</u> <u>10YR 6/1</u> <u>10YR 6/2</u> <u>10YR 6/2</u> <u>ation, D=Depletion, Rf</u> tors: (Applicable to on (A2) A3) fide (A4) ors (A5) ss (A6) (LRR P, T, U) dineral (A7) (LRR P, T ze (A8) (LRR V, T to (A8) (LRR V, T) w Dark Surface (A11) Inface (A12) Redox (A16) (MLRA - Mineral (S1) (LRR O, I Matrix (S4) (S5)	epth needed to do <u>95</u> <u>80</u> <u>70</u> <u>W=Reduced Matrix</u> all LRRs, unless , U) 150A) S)	Decement the indi Solor (moist) 10YR 4/6 10YR 5/6 10YR 5/6 10YR 5/6 	icator or confii Redox Fea <u>%</u> <u>5</u> <u>20</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u>	m the absence of <u>tures</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u>	Indicators.)	Texture Silt Loam Silt Loam Silt Loam Silt Loam Commendation Commendat	Remarks Hydric Soils ³ : O) R S) (outside MLRA 150A,B) oils (F19) (LRR P, S, T) my Soils (F20) F2) face (TF12) arks) phytic vegetation and wetland oresent, unless disturbed or
Profile Description: Depth	: (Describe to the de <u>Matrix</u> <u>Color (moist)</u> <u>10YR 5/2</u> <u>10YR 6/1</u> <u>10YR 6/2</u> <u>10YR 6/2</u> <u>ation, D=Depletion, Rf</u> tors: (Applicable to on (A2) A3) fide (A4) ors (A5) ss (A6) (LRR P, T, U) dineral (A7) (LRR P, T be (A8) (LRR P, T) we Dark Surface (A11) inface (A12) Redox (A16) (MLRA - Mineral (S1) (LRR O, I Matrix (S4) (S5) ix (S6)	epth needed to do 95 0 70 M=Reduced Matrix all LRRs, unless , U) 150A) S)	Decement the indi Solor (moist) 10YR 4/6 10YR 5/6 10YR 5/6 10YR 5/6 	icator or confii Redox Fea <u>%</u> <u>5</u> <u>20</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u>	m the absence of <u>tures</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u>	Indicators.)	Texture Silt Loam Core Lining, M=Matrix. Indicators for Problematic 1 cm Muck (A9) (LRR 2 cm Muck (A10) (LRR 2 cm Muck (A10) (LRR Piedmont Floodplain S Anomalous Bright Loar (MLRA 153B) Red Parent Material (T Very Shallow Dark Sur Other (Explain in Remains) ³ Indicators of hydroj hydrology must be p problematic. 53D)	Remarks Hydric Soils ³ : O) R S) (outside MLRA 150A,B) oils (F19) (LRR P, S, T) my Soils (F20) F2) face (TF12) arks) phytic vegetation and wetland oresent, unless disturbed or
Profile Description: Depth	: (Describe to the de <u>Matrix</u> <u>Color (moist)</u> <u>10YR 5/2</u> <u>10YR 6/1</u> <u>10YR 6/2</u> <u>10YR 6/2</u> <u>ation, D=Depletion, Rf</u> tors: (Applicable to on (A2) A3) fide (A4) ors (A5) ss (A6) (LRR P, T, U) dineral (A7) (LRR P, T be (A8) (LRR P, T, U) 9) (LRR P, T) we Dark Surface (A11) Inface (A12) Redox (A16) (MLRA - Mineral (S1) (LRR O, I Matrix (S4) (S5) ix (S6) (S7) (LRR P, S, T, U)	epth needed to do 95 80 70 W=Reduced Matrix all LRRs, unless , U) 150A) S)	Decement the indi Solor (moist) 10YR 4/6 10YR 5/6 10YR 5/6 10YR 5/6 	icator or confir Redox Fea <u>%</u> <u>5</u> <u>20</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u>	m the absence of <u>tures</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u>	² indicators.) <u>Loc²</u> <u>M</u> <u>PL</u> <u>M</u> ² Location: PL=P J) (5, T) (9A) (A 149A, 153C, 18)	Texture Silt Loam Protection 1 cm Muck (A9) (LRR 2 cm Muck (A10) (LRR 2 cm Muck (A10) (LRR Piedmont Floodplain S Anomalous Bright Loar (MLRA 153B) Red Parent Material (T Very Shallow Dark Sur Other (Explain in Remains) ³ Indicators of hydrol hydrology must be p problematic. 53D)	Remarks Hydric Soils ³ : O) R S) (outside MLRA 150A,B) oils (F19) (LRR P, S, T) my Soils (F20) F2) face (TF12) arks) phytic vegetation and wetland oresent, unless disturbed or
Profile Description: Depth	: (Describe to the de <u>Matrix</u> <u>Color (moist)</u> <u>10YR 5/2</u> <u>10YR 6/1</u> <u>10YR 6/2</u> <u>10YR 6/2</u> <u>ation, D=Depletion, Rf</u> tors: (Applicable to on (A2) A3) fide (A4) ors (A5) ss (A6) (LRR P, T, U) dineral (A7) (LRR P, T ze (A8) (LRR P, T, U) 9) (LRR P, T) we Dark Surface (A11) Inface (A12) Redox (A16) (MLRA - Mineral (S1) (LRR O, I Matrix (S4) (S5) ix (S6) (S7) (LRR P, S, T, U) f observed):	epth needed to do <u>95</u> 80 70 <u>W</u> =Reduced Matrix all LRRs, unless , U) 150A) S)	Decement the indi Solor (moist) 10YR 4/6 10YR 5/6 10YR 5/6 	icator or confir Redox Fea <u>%</u> <u>5</u> <u>20</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u>	m the absence of <u>tures</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u>	indicators.)	Texture Silt Loam Silt Loam Silt Loam Silt Loam Control of the second se	Remarks Hydric Soils ³ : O) R S) (outside MLRA 150A,B) oils (F19) (LRR P, S, T) my Soils (F20) F2) face (TF12) arks) phytic vegetation and wetland oresent, unless disturbed or
Profile Description: Depth	: (Describe to the de <u>Matrix</u> <u>Color (moist)</u> <u>10YR 5/2</u> <u>10YR 6/1</u> <u>10YR 6/2</u> <u>10YR 6/2</u> <u>ation, D=Depletion, Rf</u> tors: (Applicable to on (A2) A3) fide (A4) ors (A5) ss (A6) (LRR P, T, U) dineral (A7) (LRR P, T ze (A8) (LRR V, T ye (A8) (LRR V, T ze (A8) (LRR V, T w Dark Surface (A11) inface (A12) Redox (A16) (MLRA - Mineral (S1) (LRR O, I Matrix (S4) (S5) ix (S6) (S7) (LRR P, S, T, U) f observed):	epth needed to do <u>95</u> <u>80</u> <u>70</u> <u>W=Reduced Matrix</u> all LRRs, unless f, U) 150A) S)	Decement the indi Color (moist) 10YR 4/6 10YR 5/6 10YR 5/6 	icator or confir Redox Fea <u>%</u> <u>5</u> <u>20</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u>	m the absence of <u>tures</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u>	indicators.)	Texture Silt Loam Silt Loam Silt Loam Silt Loam Comparison Silt Loam Comparison Comparis	Remarks Hydric Soils ³ : O) X S) (outside MLRA 150A,B) oils (F19) (LRR P, S, T) my Soils (F20) F2) face (TF12) arks) phytic vegetation and wetland oresent, unless disturbed or
Profile Description: Depth	: (Describe to the de Matrix Color (moist) 10YR 5/2 10YR 6/1 10YR 6/2 ation, D=Depletion, Rf tors: (Applicable to on (A2) A3) fide (A4) ors (A5) es (A6) (LRR P, T, U) dineral (A7) (LRR P, T be (A8) (LRR V, T y) (LRR P, T) w Dark Surface (A11) inface (A12) Redox (A16) (MLRA - Mineral (S1) (LRR O, I Matrix (S4) (S5) ix (S6) (S7) (LRR P, S, T, U) f observed): as):	epth needed to do <u>95</u> <u>80</u> <u>70</u> <u>W</u> =Reduced Matrix all LRRs, unless (, U) (150A) S)	Decument the indi Solor (moist) 10YR 4/6 10YR 5/6 10YR 5/6 	icator or confir Redox Fea <u>%</u> <u>5</u> <u>20</u> <u>30</u> <u>30</u> <u>30</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u>	m the absence of <u>tures</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u>	indicators.)	Texture Silt Loam Silt Loam Silt Loam Silt Loam Control of the second se	Remarks Hydric Soils ³ : O) R S) (outside MLRA 150A,B) oils (F19) (LRR P, S, T) my Soils (F20) "F2) face (TF12) arks) phytic vegetation and wetland oresent, unless disturbed or
Profile Description: Depth	: (Describe to the de Matrix Color (moist) 10YR 5/2 10YR 6/1 10YR 6/2 ation, D=Depletion, RI tors: (Applicable to on (A2) 33) fide (A4) ers (A5) es (A6) (LRR P, T, U) dineral (A7) (LRR P, T se (A8) (LRR U) 9) (LRR P, T) we Dark Surface (A11) inface (A12) Redox (A16) (MLRA 4 Mineral (S1) (LRR O, I Matrix (S4) (S5) ix (S6) (S7) (LRR P, S, T, U) f observed): as): 	epth needed to do <u>95</u> 80 70 <u>W</u> =Reduced Matrix all LRRs, unless ; U) 150A) S)	Decument the indi Solor (moist) 10YR 4/6 10YR 5/6 10YR 5/6 	icator or confil Redox Fea <u>%</u> <u>5</u> <u>20</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u>	m the absence of <u>tures</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u>	indicators.)	Texture Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Indicators for Problematic 1 cm Muck (A9) (LRR 2 cm Muck (A10) (LRR Reduced Vertic (F18) (Piedmont Floodplain S Anomalous Bright Loar (MLRA 153B) Red Parent Material (T Very Shallow Dark Sur Other (Explain in Remains) ³ Indicators of hydron hydrology must be p problematic. 53D)	Remarks Hydric Soils ³ : O) R S) (outside MLRA 150A,B) oils (F19) (LRR P, S, T) my Soils (F20) 'F2) face (TF12) arks) phytic vegetation and wetland oresent, unless disturbed or x No
Profile Description: Depth	: (Describe to the de Matrix Color (moist) 10YR 5/2 10YR 6/1 10YR 6/2 ation, D=Depletion, RH tors: (Applicable to on (A2) 33) fide (A4) ers (A5) es (A6) (LRR P, T, U) dineral (A7) (LRR P, T, U) 9) (LRR P, T) we Dark Surface (A11) rface (A12) Redox (A16) (MLRA - Mineral (S1) (LRR O, I Matrix (S4) (S5) ix (S6) (S7) (LRR P, S, T, U) f observed): es): of hydric soil was observed	epth needed to do 	Decument the indi Color (moist) 10YR 4/6 10YR 5/6 10YR 5/6 	icator or confil Redox Fea <u>%</u> <u>5</u> <u>20</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u> <u>40</u>	m the absence of <u>tures</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u>	Indicators.)	Texture Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Indicators for Problematic 1 cm Muck (A9) (LRR 2 cm Muck (A10) (LRR Reduced Vertic (F18) (Piedmont Floodplain S Anomalous Bright Loar (MLRA 153B) Red Parent Material (T Very Shallow Dark Sur Other (Explain in Remains) ³ Indicators of hydrogy must be p problematic. 53D)	Remarks Hydric Soils ³ : O) R S) (outside MLRA 150A,B) oils (F19) (LRR P, S, T) my Soils (F20) 'F2) face (TF12) arks) phytic vegetation and wetland oresent, unless disturbed or x No

	Absolute %	Dominant	Indicator		
	cover	Species	Status	Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft.)				Number of Dominant Species	
1. None Observed				That Are OBL, FACW, or FAC:	2 (A)
2					
3				Total Number of Dominant	a (D)
4				Species Across All Strata:	2 (B)
6	·	<u> </u>		Percent of Dominant Species	
		= Total Cover		That Are OBL, FACW, or FAC:	100% (A/B)
50% of total	cover:	20% of total cover:			(**)
				Prevalence Index Worksheet:	
Sapling Stratum (Plot size: 30 ft.)					
1. None Observed		. <u> </u>		Total % Cover of:	Multiply by:
2				OBL species <u>30</u>	x 1 = <u>30</u>
3	·	·		FACW species 5	x 2 = <u>10</u>
45				FAC species 0	x 3 = <u>30</u>
6.				UPL species 0	x 5 = 0
	- <u> </u>	= Total Cover		Column Totals: 45	(A) 70 (
50% of total	cover:	20% of total cover:			
Shrub Stratum (Plot size: 30 ft.)				Prevalence Index = B/A =	1.56
1. None Observed					
2				Hydrophytic Vegetation Indicators:	
3				1 - Rapid Test for Hydrophytic Ve	getation
4				X 2 - Dominance Test is >50%	
5				X 3 - Prevalence Index is $\leq 3.0^{1}$	1
6		T (10		Problematic Hydrophytic Vegetati	on' (Explain)
E09/ of total		= Iotal Cover		¹ Indicators of hydric soil and watland hydro	logy must
50% of total	cover.	20% of total cover.		be present, unless disturbed or problematic.	logy must
Herb Stratum (Plot size: 30 ft.)					
1. Ludwigia repens	20	Yes	OBL	Definitions of Five Vegetation Strata:	
2. Paspalum dilatatum	10	Yes	FAC		
3. <u>Ludwigia palustris</u>	5	No	OBL	Tree - Woody plants, excluding woody vines	s,
4. Saururus cernuus	5	<u>No</u>	OBL	approximately 20 ft (6m) or more in height ar	id 3 in.
5. Cyperus virens	5	No	FACW	(7.6 cm) or larger in diameter at breast heigh	t (DBH).
7.	·			Sapling - Woody plants, excluding woody vir	nes,
8.				approximately 20 ft (6 m) or more in height a	nd less
9				than 3 in. (7.6 cm) DBH.	
10					
11				Shrub - Woody plants, excluding woody vine	:S,
	45	= Total Cover		approximately 3 to 20 ft (1 to 6 m) in height.	
50% of total	cover: 22.5	20% of total cover:	9	Herb - All herbaceous (non-woody) plants, in	licluding
Woody Vine Stratum (Plot size: 30 ft.)			herbaceous vines, regardless of size, and we	oody
1. None Observed				plants, except woody vines, less than approx	timately
2				2 ft (1 m) in height.	
3					
4				Woody vine - All woody vines, regardless of	height.
5		- Tatal Cause		Ib dese budie	
E09/ of total		= Iotal Cover		Hydrophytic	
50% Of 101al		2070 01 10121 00701.	<u> </u>	Present? Yes X	No
					· · · · · · · · · · · · · · · · · · ·





Project/Site:	Bob Anthon	y Parkway Reloca	ition	Cou	unty:	Madison	Sampling	Date: Jul	y 11, 2023
Applicant/Owner:	Mis	sissippi Departme	ent of Transport	tation	State:	N	/lississippi Sample F	oint:	DP2
Investigator(s):	avannah R. Morales	and	Bettie Shoe	maker S	Section, Township, I	Range:	5	34, T7N, R2E	
Landform (hillslope, terrace, et	c.):	Pla	ne		Local relief (concav	ve, convex, none): Linear Slope	Slope (%):	0-5
Subregion (LRR or MLRA):		LRR P, M	Casailla Calha		Lat: 32.41	130 L	ong: <u>-90.08861</u>	Datum:	NAD 83
Are climatic / hydrologic condit	ions on the site typic:	al for this time of y	cascilla-Calillo	UIT association	(es / No)	Ves	(if no explain in Remark	N	/A
Are Vegetation	lon soil No	or Hydrolog	y No	significantly	disturbed?	Are "Normal Circ	umstances" present?	Yes X	No
Are Vegetation N	lo ,Soil No	,or Hydrolog	y No	naturally pro	oblematic?	(If ne	eeded, explain any answe	rs in Remarks.)	
SUMMARY OF FINDIN	NGS - Attach si	ite map show	ving sampl	ling point lo	ocations, trans	sects, impor	tant features, etc.		
Hydrophytic Vegetation Prese	ent?	Yes	No	x					
Hydric Soil Present?		Yes	No	x	Is the Sampled A	rea			
Wetland Hydrology Present?		Yes	No	x	within a Wetland	?	Yes	No	x
Remarks:									
This point was determine	ed not to be within a v	vetland due to the	lack of all three	e wetland criteria	a.				
HYDROLOGY									
Wetland hydrology Ind	icators:						Secondary Indicators (m	ninimum of two require	d)
Primary Indicators (minir	num of one is require	d; check all that a	ipply)				Surface Soil Cra	cks (B6)	
Surface Water (A	41)		Aquatic	Fauna (B13)			Sparsely Vegeta	ted Concave Surface	(B8)
High Water Table	э (A2)	-	Mari De	eposits (B15) (Li en Sulfide Oder			Drainage Patterr	IS (B10)	
Water Marks (B1)	-		d Rhizospheres	(CT)	8)	Dry-Season Wat	(BTO) er Table (C2)	
Sediment Depos	, its (B2)	-	Presend	ce of Reduced l	ron (C4)	,	Crayfish Burrow	s (C8)	
Drift Deposits (B	3)	-	Recent	Iron Reduction	in Tilled Soils (C6)		Saturation Visibl	e on Aerial Imagery (C	9)
Algal Mat or Crus	st (B4)	-	Thin Mu	uck Surface (C7)		Geomorphic Pos	ition (D2)	
Iron Deposits (B	ō)		Other (I	Explain in Rema	arks)		Shallow Aquitare	I (D3)	
Inundation Visible	e on Aerial Imagery (E	37)					FAC-Neutral Tes	st (D5)	
Water-Stained Lo	eaves (B9)						Sphagnum moss	(D8) (LRR T, U)	
Field Observations:									
Surface Water Present?	Yes	NoX		Depth (inches):	<u>N/A</u>	Wetland Hydrol	ogy Present?	Yes N	lo <u>X</u>
Saturation Present?	Yes			Depth (inches):	>16				
Describe Recorded Data	a (stream gauge, mor	nitoring well, aeria	l photos, previo	us inspections),	, if available:				
		0		. ,	-				
Remarks:									
No positive indication of	wetland hydrology wa	as observed.							
SOIL									
DOIL Brofile Deserintion: (D	accribe to the dept	h noodod to doo	umant tha indi	actor or confir	m the cheenes of i	ndiaatara)			
Profile Description: (D	Matrix	In needed to doc	ument the Indi	Redox Fea	m the absence of i	naicators.)			
(inches) Co	lor (moist)	% Col	or (moist)	0/2	adres				
0-3 7	.5YR 3/3	100	01 (1110101)	70	Type ¹	Loc ²	Texture	Remarl	s
3-16 1	0YR 4/6	100	None			Loc ²	Texture Silt Loam	Remark	(S
		100	None None			Loc ²	Texture Silt Loam Silt Loam	Remark	(S
		100	None None			Loc ² —	Texture Silt Loam Silt Loam	Remari	
		100	None None			Loc ²	Texture Silt Loam Silt Loam	Remark	(S
¹ Type: C=Concentration	D=Depletion RM=F	100	None None			Loc ² 	Texture Silt Loam Silt Loam	Remark	(S
¹ Type: C=Concentration Hydric Soils Indicators	I, D=Depletion, RM=F	100 100 	None None Mone MS=Masked Sar			Loc ² 	Texture Silt Loam Silt Loam ore Lining, M=Matrix.	Remari	(S
¹ Type: C=Concentration Hydric Soils Indicators Histosol (A1)	I, D=Depletion, RM=F	100 100 Reduced Matrix, M LRRs, unless ot	None None MS=Masked Sar herwise noted Polyvalue	nd Grains.		Loc ² — — 2 ² Location: PL=Pr	Texture Silt Loam Silt Loam Ore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I	Remari	<u>(S</u>
¹ Type: C=Concentration Hydric Soils Indicators Histosol (A1) Histic Epipedon (A	1, D=Depletion, RM=F : (Applicable to all (2)	100 100 Reduced Matrix, N LRRs, unless ot	None None None IS=Masked Sar herwise noted Polyvalue Thin Darl	nd Grains.	 	Loc ² — — 2 Location: PL=P	Texture Silt Loam Silt Loam Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10)	Remari	<u>(S</u>
¹ Type: C=Concentration Hydric Soils Indicators Histosol (A1) Histic Epipedon (A Black Histic (A3)	1, D=Depletion, RM=F (Applicable to all 12)	100	None None IS=Masked Sar herwise noted Polyvalue Thin Darl Loamy M	nd Grains.	Type ¹ 	Loc ² — — 	Texture Silt Loam Silt Loam Indicators for Problem C cm Muck (A9) (I C cm Muck (A10) Reduced Vertic (F	Remari	SS
¹ Type: C=Concentration Hydric Soils Indicators Histosol (A1) Histic Epipedon (A Black Histic (A3) Hydrogen Sulfide	(A4)	100	None None IS=Masked Sar herwise noted Polyvalue Thin Dart Loamy M Loamy G	nd Grains. .) e Below Surface k Surface (S9) (tucky Mineral (F ileyed Matrix (F)	 e (S8) (LRR S, T, U) [LRR S, T, U) 1) (LRR O) 2)	Loc ² — — — — 2 ² Location: PL=P	Texture Silt Loam Silt Loam Dre Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (f Piedmont Floodpl	Remari	50A,B) , S, T)
¹ Type: C=Concentration Hydric Soils Indicators Histosol (A1) Histic Epipedon (A Black Histic (A3) Hydrogen Sulfide Stratified Layers (,	(A4) (A5) (APP B T 1)	100 100 Reduced Matrix, № LRRs, unless ot	None None None IS=Masked Sar herwise noted Polyvalue Thin Darl Loamy M Loamy G Depleted	nd Grains. .) e Below Surface k Surface (S9) (lucky Mineral (F ileyed Matrix (F3) Il Matrix (F3)		Loc ² — — 	Texture Silt Loam Silt Loam It Loam It Loam It Loam It Loam It Loam It Comparison It C	Remari	50A,B) , S, T)
¹ Type: C=Concentration Hydric Soils Indicators Histosol (A1) Histic Epipedon (A Black Histic (A3) Hydrogen Sulfide Stratified Layers (, Organic Bodies (A 5 cm Mucky Minet	(A4) (A4) (b) (LRR P, T, U) (A7) (LRR P, T, U) (A7) (LRR P, T, U)	100 100 Reduced Matrix, N LRRs, unless ot	None None None IS=Masked Sar herwise noted Polyvalue Thin Darl Loamy M Loamy G Depleted Redox D Depleted	nd Grains. .) e Below Surface k Surface (S9) (flucky Mineral (F ileyed Matrix (F3) ark Surface (F6) Dark Surface (F6)		Loc ² — — 	Texture Silt Loam Silt Loam It Loam It Loam It Loam It Loam It Comparison It Compariso	Remari	50A,B) , S, T)
¹ Type: C=Concentration Hydric Soils Indicators Histosol (A1) Histic Epipedon (A Black Histic (A3) Hydrogen Sulfide Stratified Layers (A Organic Bodies (A 5 cm Mucky Miner Muck Presence (A	(A4) (A4) (A4) (A5) (A7) (LRR P, T, U) (A7) (LRR P, T, U) (B) (LRR U)	100 100 	None None None IS=Masked Sar herwise noted Polyvalu Thin Dari Loamy M Loamy G Depleted Redox D Redox D	nd Grains. .) e Below Surface k Surface (S9) (fucky Mineral (F Sileyed Matrix (F3) I Matrix (F3) ark Surface (F6 I Dark Surface (F6 epressions (F8)		Loc ² — — 	Texture Silt Loam Silt Loam It Loam Treatment Silt Loam Treatment	Remari	50A,B) , S, T)
¹ Type: C=Concentration Hydric Soils Indicators Histosol (A1) Histic Epipedon (A Black Histic (A3) Hydrogen Sulfide Stratified Layers (, Organic Bodies (A 5 cm Mucky Miner Muck Presence (A 1 cm Muck (A9) (I	(A4) (A4) (A4) (A5) (A4) (A5) (A7) (LRR P, T, U) (B) (LRR P, T, U) (B) (LRR U) .RR P, T)	100 Teduced Matrix, № LRRs, unless ot	None None None IS=Masked Sar herwise noted Polyvalu Thin Dari Loamy G Depleted Redox D Depleted Redox D Marl (F10	nd Grains. .) e Below Surface k Surface (S9) (flucky Mineral (F Sleyed Matrix (F3) ark Surface (F6 l Dark Surface (persessions (F8) 0) (LRR U)	 e (S8) (LRR S, T, U) (LRR S, T, U) (1) (LRR O) 2) (1) (F7) (1) (LRR O)	Loc ² — — 	Texture Silt Loam Silt Loam It Loam It Loam It Loam It Loam It Loam It Comparison It Loam It Comparison It Compari	Remari	50A,B) , S, T)
¹ Type: C=Concentration Hydric Soils Indicators Histosol (A1) Histic Epipedon (A Black Histic (A3) Hydrogen Sulfide Stratified Layers (A Organic Bodies (A 5 cm Mucky Miner Muck Presence (A 1 cm Muck (A9) (I Depleted Below D	(A4) (A4) (A4) (A4) (A5) (A7) (LRR P, T, U) (A7) (LRR P, T, U) (B) (LRR U) (RR P, T) ark Surface (A11)	100 Reduced Matrix, № LRRs, unless ot	None None None K=Masked Sar Polyvalu Thin Dar Loamy G Depleted Redox D Narl (F10 Depleted Redox D Narl (F10 Depleted Redox D Narl (F10 Redox D Narl (F10 Redox D Narl (F10 Redox D	nd Grains. .) e Below Surface k Surface (S9) (fucky Mineral (F ileyed Matrix (F3) ark Surface (F6) l Dark Surface (epressions (F8) 0) (LRR U) l Ochric (F11) (I		Loc ²	Texture Silt Loam Silt Loam Silt Loam Indicators for Problem C c m Muck (A9) (I C c m Muck (A9) (I C c m Muck (A10) Reduced Vertic (F Piedmont Floodpl Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Dar Other (Explain in	Remark	50A,B) ; S, T)
¹ Type: C=Concentration Hydric Soils Indicators Histosol (A1) Histic Epipedon (A Black Histic (A3) Hydrogen Sulfide Stratified Layers (, Organic Bodies (A 5 cm Mucky Miner Muck Presence (A 1 cm Muck (A9) (L Depleted Below D Thick Dark Surfac	(A4) (A4) (A4) (A5) (b) (LRR P, T, U) (a) (A7) (LRR P, T, U) (b) (LRR U) (c) (LRR U) (c) (LRR U) (c) (LRR U) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c)	100 100 Reduced Matrix, N LRRs, unless ot	None None None None NS=Masked Sar Polyvalue Thin Dar Loamy G Depleted Redox D Marl (F1(Depleted Iron-Man	nd Grains. .) e Below Surface k Surface (S9) (tucky Mineral (F ileyed Matrix (F3) ark Surface (F6 l Dark Surface (epressions (F8) 0) (LRR U) 10 Cohric (F11) (I iganese Masses		Loc ² 	Texture Silt Loam Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (1 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpi Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Dar Other (Explain in ³ Indicators of h bydrology mus	Remark	(S 50A,B) , S, T) and wetland sturbed or
¹ Type: C=Concentration Hydric Soils Indicators Histosol (A1) Histic Epipedon (A Black Histic (A3) Hydrogen Sulfide Stratified Layers (, Organic Bodies (A 5 cm Mucky Miner Muck Presence (A 1 cm Muck (A9) (L Depleted Below D Thick Dark Surfac Coast Prairie Red	(A4) (A4) (A4) (A5) (B) (LRR P, T, U) (A7) (LRR P, T, U) (A7) (LRR P, T, U) (A7) (LRR P, T, U) (A1) (LRR U) 	100 2educed Matrix, N LRRs, unless ot	None None None None None None None NS=Masked Sar herwise noted Polyvalue Thin Dar Loamy G Depleted Redox D Depleted Redox D Marl (F11 Depleted Iron-Mar Unbric S	nd Grains. .) e Below Surface k Surface (S9) (tucky Mineral (F leyed Matrix (F3) ark Surface (F6) l Dark Surface (epressions (F8) 0) (LRR U) 10 Corhice (F13) (L inganese Masses Surface (F13) (L		Loc ² 	Texture Silt Loam Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpl Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Dari Other (Explain in ³ Indicators of h hydrology mus problematic.	Remark	50A,B) 5, S, T)
¹ Type: C=Concentration Hydric Soils Indicators Histosol (A1) Histic Epipedon (A Black Histic (A3) Hydrogen Sulfide Stratified Layers (, Organic Bodies (A 5 cm Mucky Miner Muck Presence (A 1 cm Muck (A9) (I Depleted Below D Thick Dark Surfac Coast Prairie Red Sandy Mucky Min Sandy Churd Ma	(A4) (A4) (A4) (A5) (6) (LRR P, T, U) (a1 (A7) (LRR P, T, U) (8) (LRR U) .RR P, T) ark Surface (A11) (A12) (A16) (MLRA 150) eral (S1) (LRR O, S) trix (S4)	100 100 Reduced Matrix, N LRRs, unless ot	None None None None None None None None	nd Grains. e Below Surface k Surface (S9) (tucky Mineral (F leyed Matrix (F3) ark Surface (F6) l Dark Surface (F6) l Dark Surface (F6) l Dark Surface (F1) (LRR U) l Ochric (F17) (ILR uganese Masses Surface (F13) (L hric (F17) (MLR		Loc ² 	Texture Silt Loam Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpl Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Dari Other (Explain in ³ Indicators of h hydrology mus problematic.	Remark	50A,B) , S, T) and wetland sturbed or
¹ Type: C=Concentration Hydric Soils Indicators Histosol (A1) Histic Epipedon (A Black Histic (A3) Hydrogen Sulfide Stratified Layers (, Organic Bodies (A 5 cm Mucky Miner Muck Presence (A 1 cm Muck (A9) (I Depleted Below D Thick Dark Surfac Coast Prairie Red Sandy Mucky Min Sandy Gleyed Ma Sandy Redox (S5	(A4) (A4) (A4) (A5) (6) (LRR P, T, U) (al (A7) (LRR P, T, U) (al (A7) (LRR P, T, U) (b) (LRR U) .RR P, T) ark Surface (A11) (A12) (A16) (MLRA 150) arial (S1) (LRR O, S) trix (S4))	100 100 Reduced Matrix, N LRRs, unless ot	None None None IS=Masked Sar herwise noted Polyvalue Thin Darl Loamy M Loamy G Depleted Redox D Marl (F10 Depleted Redox D Marl (F10 Depleted Redox C C Depleted Redox C C Depleted Redox C C C C C C C C C C C C C C C C C C C	nd Grains. I.) e Below Surface k Surface (S9) (lucky Mineral (F Sleyed Matrix (F3) ark Surface (F6 ID ark Surface (F6 ID ark Surface (F6) D ark Surface (F1) (INC (F11) (INCR) Surface (F13) (L hric (F17) (MLR Vertic (F18) (M t Floodplain Soi		Loc ² 	Texture Silt Loam Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpl Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Dari Other (Explain in ³ Indicators of h hydrology mus problematic.	Remark	50A,B) 5, S, T)
¹ Type: C=Concentration Hydric Soils Indicators Histosol (A1) Histic Epipedon (A Black Histic (A3) Hydrogen Sulfide Stratified Layers (, Organic Bodies (A 5 cm Mucky Miner Muck Presence (A 1 cm Muck (A9) (I Depleted Below D Thick Dark Surfac Coast Prairie Red Sandy Mucky Min Sandy Gleyed Ma Sandy Redox (S5 Stripped Matrix (S	(A4) (A4) (A4) (A5) (6) (LRR P, T, U) (a1 (A7) (LRR P, T, U) (a) (A7) (LRR P, T, U) (b) (LRR U) LRR P, T) ark Surface (A11) (A12) (A16) (MLRA 150, aral (S1) (LRR O, S) (CA1) (CA	100	None None None IS=Masked Sar herwise noted Polyvalue Thin Darl Loamy G Depleted Redox D Depleted Redox D Marl (F10 Depleted Ion-Marl (F10 Depleted Redox C Reduced Piedmon Anomalo	nd Grains. e Below Surface k Surface (S9) (lucky Mineral (F leyed Matrix (F3) ark Surface (F6) l Dark Surface (epressions (F8) 0) (LRR U) l Ochric (F11) (I inganese Masses Surface (F13) (L hric (F17) (MLR Vertic (F18) (M t Floodplain Soi us Bright Loamy		Loc ² 	Texture Silt Loam Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A9) (I 2 cm Muck (A9) (I Piedmont Floodpl Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Dar Other (Explain in ³ Indicators of h hydrology mus problematic. 3D)	Remark	50A,B) , S, T)
¹ Type: C=Concentration Hydric Soils Indicators Histosol (A1) Histic Epipedon (A Black Histic (A3) Hydrogen Sulfide Stratified Layers (A Organic Bodies (A 5 cm Mucky Miner Muck Presence (A 1 cm Muck (A9) (L Depleted Below D Thick Dark Surfac Coast Prairie Red Sandy Mucky Min Sandy Gleyed Ma Sandy Redox (S5 Stripped Matrix (S Dark Surface (S7)	(LRR P, S, T, U) (A4) (A4) (A5) (6) (LRR P, T, U) (a1 (A7) (LRR P, T, U) (a1 (A7) (LRR P, T, U) (A1) (A1) (LRR U) (A16) (MLRA 150, (A16) (MLRA 150, (A16) (MLRA 0, S) (LRR 0, S) (LRR 0, S, T, U)	100 100 Reduced Matrix, N LRRs, unless ot	None None None IS=Masked Sar herwise noted Polyvalue Thin Dari Loamy G Depleted Redox D Reduced Piedmon Anomalo	nd Grains. e Below Surface k Surface (S9) (lucky Mineral (F leyed Matrix (F3) ark Surface (F6) l Dark Surface (epressions (F8) 0) (LRR U) 1 Ochric (F11) (I uganese Masses Surface (F13) (L hric (F17) (MLR Vertic (F18) (M t Floodplain Soi us Bright Loamy		Loc ² 	Texture Silt Loam Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A9) (I 2 cm Muck (A9) (I Piedmont Floodpl Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Dar Other (Explain in ³ Indicators of h hydrology mus problematic. 3D)	Remark	50A,B) , S, T)
¹ Type: C=Concentration Hydric Soils Indicators Histosol (A1) Histic Epipedon (A Black Histic (A3) Hydrogen Sulfide Stratified Layers (A Organic Bodies (A 5 cm Mucky Miner Muck Presence (A Depleted Below D Thick Dark Surfac Coast Prairie Red Sandy Mucky Min Sandy Gleyed Ma Sandy Redox (S5 Stripped Matrix (S Dark Surface (S7) Restrictive Layer (if ob	(A4) (A4) (A4) (A5) (6) (LRR P, T, U) (7) (LRR P, T, U) (8) (LRR U) .RR P, T) ark Surface (A11) (A12) (A12) (A12) (A12) (A12) (A13) (MLRA 150) (A14) (MLRA 150) (A14) (MLRA 0, S) trix (S4) (LRR P, S, T, U) served):	100	None None None IS=Masked Sar Polyvalue Polyvalue Thin Dari Loamy G Depleted Redox D Marl (F10 Depleted Iron-Man Umbric S Delta Oc Reduced Piedmon Anomalo	nd Grains. e Below Surface k Surface (S9) (lucky Mineral (F leyed Matrix (F3) ark Surface (F6 l Dark Surface (epressions (F8) 0) (LRR U) l Ochric (F11) (II gganese Masses Surface (F13) (L chric (F17) (MLR l Vertic (F18) (M t Floodplain Soi us Bright Loamy		Loc ² 	Texture Silt Loam Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A9) (I 2 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpl Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Dar Other (Explain in ³ Indicators of h hydrology mus problematic. 3D)	Remark	50A,B) , S, T)
¹ Type: C=Concentration Hydric Soils Indicators Histosol (A1) Histic Epipedon (A Black Histic (A3) Hydrogen Sulfide Stratified Layers (Organic Bodies (A 5 cm Mucky Miner Muck Presence (A 1 cm Muck (A9) (L Depleted Below D Thick Dark Surfac Coast Prairie Red Sandy Mucky Min Sandy Gleyed Ma Sandy Redox (S5 Stripped Matrix (S Dark Surface (S7) Restrictive Layer (if ob Type:	(A4) (A4) (A5) (6) (LRR P, T, U) (7) (LRR P, T, U) (8) (LRR U) .RR P, T) ark Surface (A11) e (A12) ox (A16) (MLRA 150, eral (S1) (LRR O, S) trix (S4) (LRR P, S, T, U) served):	100 100 Reduced Matrix, N LRRs, unless ot	None None None IS=Masked Sar Polyvalue Thin Dari Loamy M Loamy G Depleted Redox D Marl (F10 Depleted Iron-Man Umbric S Delta Oc Reduced Piedmon Anomalo	nd Grains. e Below Surface k Surface (S9) (lucky Mineral (F leyed Matrix (F3) ark Surface (F6 l Dark Surface (epressions (F8) 0) (LRR U) l Ochric (F11) (I gganese Masses surface (F13) (L hric (F17) (MLR l Vertic (F18) (M t Floodplain Soi us Bright Loamy		Loc ² 	Texture Silt Loam Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpl Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Dar Other (Explain in ³ Indicators of h hydrology mus problematic. 3D)	Remark	50A,B) , S, T)
¹ Type: C=Concentration Hydric Soils Indicators Histosol (A1) Histic Epipedon (A Black Histic (A3) Hydrogen Sulfide Stratified Layers (Organic Bodies (A 5 cm Mucky Miner Muck Presence (A 1 cm Muck (A9) (L Depleted Below D Thick Dark Surfac Coast Prairie Red Sandy Mucky Min Sandy Gleyed Ma Sandy Redox (S5 Stripped Matrix (S Dark Surface (S7) Restrictive Layer (if ob Type: Depth (inches):	A, D=Depletion, RM=f (Applicable to all (A4) (A4) (A5) (6) (LRR P, T, U) (1 (A7) (LRR P, T, U) (1 (A7) (LRR P, T, U) (A7) (LRR P, T, U) (A7) (LRR P, T, U) (A7) (LRR P, T, U) (LRR P, S, T, U) (LRR P, S, T, U) served):	100	None None None None IS=Masked Sar Polyvalue Thin Darl Loamy M Loamy G Depleted Redox D Depleted Redox D Marl (F10 Depleted Iron-Man Umbric S Delta Oc Reduced Piedmon Anomalo	nd Grains. e Below Surface k Surface (S9) (fucky Mineral (F ileyed Matrix (F3) ark Surface (F6 I Dark Surface (F6 I Dark Surface (F1) O) (LRR U) 10 Cohric (F11) (I nganese Masses Surface (F13) (L hric (F17) (MLR I Vertic (F18) (M t Floodplain Soi us Bright Loamy		Loc ² 	Texture Silt Loam Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpl Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Dari Other (Explain in ³ Indicators of h hydrology mus problematic.	Remark	ss 50A,B) , S, T) and wetland sturbed or
¹ Type: C=Concentration Hydric Soils Indicators Histosol (A1) Histic Epipedon (A Black Histic (A3) Hydrogen Sulfide Stratified Layers (Organic Bodies (A 5 cm Mucky Miner Muck Presence (A 1 cm Muck Q49) (L Depleted Below D Thick Dark Surfac Coast Prairie Red Sandy Mucky Min Sandy Gleyed Ma Sandy Redox (S5 Stripped Matrix (S Dark Surface (S7) Restrictive Layer (if ob Type: Depth (inches): Remarks:	A, D=Depletion, RM=f (Applicable to all (A4) (A4) (A5) (A6) (LRR P, T, U) (A7) (LRR O, S) (A16) (MLRA 150) (A16) (MLRA 150) (A16) (MLRA 0, S) trix (S4) (LRR P, S, T, U) served):	A)	None None None None Sector 2012 None None None None None None None None	nd Grains. e Below Surface k Surface (S9) (fucky Mineral (F ileyed Matrix (F3) ark Surface (F6 I Dark Surface (F epressions (F8)) 0) (LRR U) 10 Cohric (F11) (I inganese Masses Surface (F13) (L hric (F17) (MLR I Vertic (F18) (M t Floodplain Soi us Bright Loamy		Loc ² 	Texture Silt Loam Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A9) (I 2 cm Muck (A0) (I 2 cm Muck (A1)) Reduced Vertic (F Piedmont Floodpl Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Dari Other (Explain in ³ Indicators of h hydrology mus problematic. 3D) Soli Present? Yes	Remark	ss 50A,B) , S, T) and wetland sturbed or
¹ Type: C=Concentration Hydric Soils Indicators Histosol (A1) Histic Epipedon (A Black Histic (A3) Hydrogen Sulfide Stratified Layers (A Organic Bodies (A 5 cm Mucky Miner Muck Presence (A 1 cm Muck (A9) (I Depleted Below D Thick Dark Surfac Coast Prairie Red Sandy Mucky Miner Sandy Redox (S5 Stripped Matrix (S) Dark Surface (S7) Restrictive Layer (if ob Type: Depth (inches): Remarks: No positive indication of	(A4) (A4) (A4) (A5) (6) (LRR P, T, U) (a) (A7) (LRR P, T, U) (a) (A7) (LRR P, T, U) (b) (LRR U) (AR P, T) ark Surface (A11) (A12) (A16) (MLRA 150) (arral (S1) (LRR O, S) trix (S4) (LRR P, S, T, U) served): 	100	None None None None Second Sec	nd Grains. e Below Surface k Surface (S9) (lucky Mineral (F ileyed Matrix (F3) ark Surface (F6 I) Dark Surface (I epressions (F8)) 0) (LRR U) 10 Cohric (F11) (I arganese Masses Surface (F13) (L hric (F17) (MLR I Vertic (F18) (M t Floodplain Soi us Bright Loamy		Loc ² 	Texture Silt Loam Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A9) (I 2 cm Muck (A9) (I Piedmont Floodpl Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Dari Other (Explain in ³ Indicators of fr hydrology mus problematic. 3D)	Remark	ss 50A,B) , S, T) and wetland sturbed or

	Absolute %	Dominant	Indicator				
	cover	Species	Status	Dominance Test work	(sheet:		
ree Stratum (Plot size: 30 ft.)				Number of Dominant S	pecies		
. Prunus serotina	30	Yes	FACU	That Are OBL, FACW,	or FAC:	3	8 (A
. Quercus stellata	15	Yes	UPL				
. Fraxinus pennsylvanica	10	No	FACW	Total Number of Domin	ant		
Cercis canadensis	10	No	UPL	Species Across All Stra	ata:	8	<u> </u>
. Quercus nigra	5	No	FAC				
. Ostrya virginiana	5	No	FACU	Percent of Dominant S	pecies		
	75 =	Total Cover		That Are OBL, FACW,	or FAC:	38	% (A
50% of total cove	er: 37.5	20% of total cover:	15				
anling Stratum (Plot size: 30 ft)				Prevalence Index Wor	rksheet:		
Cercis canadensis	5	Yes	LIPI	Total %	Cover of:		Multiply by:
		Vos			0	x 1 -	
		Vos	EACU		10	×2-	20
Ostrya virginiana	Z	165	FACO	FACW species	10	×2-	120
·		·		FAC species	40	× 4 =	120
				FACU species	43	× 4 -	180
		Tatal Causa		OPL species	43	x 5 -	215
50% 51.1.1	=	Total Cover	0	Column Totals:	138	(A)	535
	er: 0	20% of total cover:	2				
rub Stratum (Plot size: <u>30 ft.</u>)				Prevalence	Index = B/A =		3.88
None Observed							
		·		Hydrophytic Vegetati	on Indicators:		
		·		1 - Rapid Te	est for Hydrophytic	Vegetation	
		·		2 - Dominar	ice lest is >50%		
·		·		3 - Prevaler	ice index is ≤ 3.0		
·		T	·	Problematic	Hydrophylic vegel	auon (Expla	in)
	=	Total Cover		1			
50% of total cove	er:	20% of total cover:	<u> </u>	indicators of hydric s	ioli and wetland nyd	rology must	
				be present, unless dist	urbed or problemati	С.	
l pokovo multifloro	15	Vee	FAC	Definitions of Eive Ve	actation Strato		
	15	<u> </u>	FAC	Deminitions of Five ve	getation Strata.		
		tes	FAC	T			
			FACU	ree - woody plants, e		ies,	
	5	<u>No</u>		approximately 20 π (6m	i) or more in neight	and 3 in.	
Matelea carolinensis	5	NO	UPL	(7.6 cm) or larger in dia	imeter at breast hei	gnt (DBH).	
				Sapling - Woody plant	s, excluding woody	vines,	
				approximately 20 ft (6 r	n) or more in height	and less	
				than 3 in. (7.6 cm) DBH	۱.		
				than 3 in. (7.6 cm) DBH	1.		
				than 3 in. (7.6 cm) DBF	ł. excluding woody v	ines,	
		Tatal Cavor		than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 f	ł. excluding woody v t (1 to 6 m) in heigh	ines, t.	
50% of total cours	=	Total Cover		than 3 in. (7.6 cm) DBF Shrub - Woody plants, approximately 3 to 20 f	l. excluding woody v t (1 to 6 m) in heigh	ines, t.	
50% of total cove	= 	Total Cover 20% of total cover:	9.6	than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 f Herb - All herbaceous	f. excluding woody v t (1 to 6 m) in heigh (non-woody) plants.	ines, t. , including	
50% of total cove	= = ar:24	Total Cover 20% of total cover:	9.6	than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 f Herb - All herbaceous herbaceous vines, requ	ł. excluding woody v t (1 to 6 m) in heigh (non-woody) plants, ardless of size, and	ines, t. , including woody	
50% of total cove	= = 	Total Cover 20% of total cover:	9.6	than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 f Herb - All herbaceous herbaceous vines, reg plants, excent woody v	ł. excluding woody v t (1 to 6 m) in heigh (non-woody) plants, ardless of size, <u>and</u> ines. less than appr	ines, t. , including woody roximately	
50% of total cove foody Vine Stratum (Plot size: <u>30 ft.</u>) Smilax rotundifolia	= = 	Total Cover 20% of total cover: Yes	9.6 FAC	than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 f Herb - All herbaceous herbaceous vines, reg plants, except woody v 2 ff (1 m) in height	 excluding woody v t (1 to 6 m) in heigh (non-woody) plants, ardless of size, <u>and</u> ines, less than appr 	ines, t. , including woody roximately	
50% of total cove <u>foody Vine Stratum</u> (Plot size: <u>30 ft.</u>) <u>Smilax rotundifolia</u>	 	Total Cover 20% of total cover: Yes	9.6 FAC	than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 f Herb - All herbaceous herbaceous vines, rega plants, except woody v 2 ft (1 m) in height.	ł. excluding woody v t (1 to 6 m) in heigh (non-woody) plants, ardless of size, <u>and</u> ines, less than appr	ines, t. , including woody roximately	
50% of total cove <u>oody Vine Stratum</u> (Plot size: <u>30 ft.</u>) <u>Smilax rotundifolia</u>	= = = 	Total Cover 20% of total cover: Yes	9.6 FAC	than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 f Herb - All herbaceous herbaceous vines, rega plants, except woody v 2 ft (1 m) in height.	 excluding woody v t (1 to 6 m) in heigh (non-woody) plants, ardless of size, <u>and</u> ines, less than appr weighter, recordinged 	ines, t. , including woody roximately	
50% of total cove <u>oody Vine Stratum</u> (Plot size: <u>30 ft.</u>) <u>Smilax rotundifolia</u>	= = = 	Total Cover 20% of total cover: Yes	9.6 FAC	than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 f Herb - All herbaceous herbaceous vines, rega plants, except woody v 2 ft (1 m) in height. Woody vine - All wood	 excluding woody v t (1 to 6 m) in heigh (non-woody) plants, ardless of size, <u>and</u> ines, less than appr y vines, regardless 	ines, t. , including woody roximately of height.	
50% of total cove <u>foody Vine Stratum</u> (Plot size: <u>30 ft.</u>) <u>Smilax rotundifolia</u>	= 	Total Cover 20% of total cover: Yes	9.6 FAC	than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 f Herb - All herbaceous herbaceous vines, rega plants, except woody v 2 ft (1 m) in height. Woody vine - All wood	t. excluding woody v t (1 to 6 m) in heigh (non-woody) plants, ardless of size, <u>and</u> ines, less than appr y vines, regardless	ines, t. , including woody roximately of height.	
Image:		Total Cover 20% of total cover: Yes Total Cover	9.6 FAC	than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 f Herb - All herbaceous herbaceous vines, rega plants, except woody v 2 ft (1 m) in height. Woody vine - All wood Hydrophytic	t. excluding woody v t (1 to 6 m) in heigh (non-woody) plants, ardless of size, <u>and</u> ines, less than appr y vines, regardless	ines, t. , including woody roximately of height.	
Image: Solution of the second stratum 50% of the second stratum Source stratum (Plot size:) Solution stratum Solution stratum Solution stratum (Plot size:) Solution stratum Solution stratum Solution stratum Solution stratum Solution stratum Solution stratum	$\frac{48}{24} = \frac{5}{5}$	Total Cover 20% of total cover: Yes Yes Total Cover 20% of total cover:	9.6 FAC	than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 f Herb - All herbaceous herbaceous vines, rega plants, except woody v 2 ft (1 m) in height. Woody vine - All wood Hydrophytic Vegetation	I. excluding woody v t (1 to 6 m) in heigh (non-woody) plants, ardless of size, <u>and</u> ines, less than appr y vines, regardless	ines, t. , including woody roximately of height.	

No positive indication of hydrophytic vegetation was observed (≥50% of dominant species indexed as FAC- or drier).



Location: Jackson, Madison County, MS	SW 240 210 240 20 1 • 1 • 1 • 1 • 1 • 1 • 1 • 1 • 1 • 1 •
Photo No:	
4	
Date:	
07/11/2023	
Description:	
Wetland determination	
Data Point 2 looking	
west.	
	Bob Anthony Parkway
	DP2 07-11-2023, 11:24:43 AM

Project/Site:	Bob An	thony Parkway Reloca	tion	Cou	unty:	Madison	Sampling Date:	July 12, 2023
Applicant/Owner:		Mississippi Departme	ent of Transport	ation	State	e: N	lississippi Sample Point:	DP3
Investigator(s):	Savannah R. Mo	rales and	Bettie Shoer	maker s	Section, Township	, Range:	S34, T	7N, R2E
Landform (hillslope, terr	race, etc.):	Depre	ssion		Local relief (conc	ave, convex, none)): Concave S	lope (%): 5-10
Subregion (LRR or MLF	RA):	LRR P, M	LRA 134		Lat: 32.	40507 Lo	ong: -90.07940	Datum: NAD 83
Soil Map Unit Name:			Cascilla-Calho	oun association			NWI Classification:	PF01A
Are climatic / hydrologic	c conditions on the site	typical for this time of y	ear?	()	(es / No)	Yes	(if no, explain in Remarks.)	
Are Vegetation	<u>No</u> ,Soil	No ,or Hydrolog	/ <u>No</u>	significantly	disturbed?	Are "Normal Circi	umstances" present?	Yes X No
		h site man show	/ NO	ing point lo	ocations tra		tant foaturos otc	emarks.)
	INDINGO - Attac		ning sampi	ing point it		isects, impor	tant leatures, etc.	
Hydrophytic Vegetation	n Present?	Yes X	No		la éta Camalad			
Hydric Soll Present?	acout?	Yes X			Is the Sampled	Area	Yee X	No
weiland Hydrology Pre	esent?	res X			within a wetla	10 ?	res <u>x</u>	NO
Remarks: This point was de	etermined to be within a	wetland due to the pre	sence of all thre	ee wetland crite	ria.			
HYDROLOGY								
Wetland hydrolo	ogy Indicators:						Secondary Indicators (minimu	m of two required)
Primary Indicators	s (minimum of one is re	quired; check all that a	pply)				Surface Soil Cracks (E	36)
Surface W	Vater (A1)		Aquatic	Fauna (B13)			X Sparsely Vegetated C	oncave Surface (B8)
High Wate	er Table (A2)	-	Marl De	posits (B15) (Ll	RR U)		Drainage Patterns (B1	0)
Saturation	n (A3)		Hydroge	en Sulfide Odor	(C1)		Moss Trim Lines (B16	1
Water Ma	arks (B1)	-	Oxidizer	d Rhizospheres	on Living Roots(23)	Dry-Season Water Ta	ble (C2)
Sediment	Deposits (B2)	-	Presence	ce of Reduced I	ron (C4)		X Crayfish Burrows (C8)	
Drift Depo	osits (B3)		Recent	Iron Reduction	in Tilled Soils (C6)	Saturation Visible on A	erial Imagery (C9)
Algal Mat	or Crust (B4)		Thin Mu	uck Surface (C7)		X Geomorphic Position (D2)
Iron Depo	osits (B5)		Other (E	Explain in Rema	arks)		Shallow Aquitard (D3)	
Inundation	n Visible on Aerial Imag	lery (B7)					X FAC-Neutral Test (D5	1
X Water-Sta	ained Leaves (B9)						Sphagnum moss (D8)	(LRR T, U)
Field Observations:								
Surface Water Presen	nt? Yes	No X	<u> </u>	Depth (inches):	N/A	Wetland Hydrol	ogy Present? Yes	<u> X No </u>
Water Table Present?	Yes	No X	<u>. </u>	Depth (inches):	>16			
Saturation Present?	Yes	No X	<u>с</u>	Depth (inches):	>16			
Describe Recorde	ed Data (stream gauge	, monitoring well, aeria	photos, previo	us inspections),	if available:			
Remarks:								
A positive indicati	ion of wetland hydrolog	y was observed (at lea	st one primary i	indicator).				
SOIL								
Profile Descripti	ion: (Describe to the	depth needed to doci	iment the indi	cator or confir	m the absence o	f indicators.)		
Depth (inches)	Color (moint)		ar (maint)	Redox Fea	Turne ¹		Texture	Bemerke
		<u></u>		5			Silt Loom	Remains
0-4	1011(4/2		5YR 4/6	5	<u> </u>	 PI	Silt Loan	
4-16	10YR 6/1	90 7	5YR 4/6	5	<u> </u>			
		<u> </u>	5YR 4/6	5	<u> </u>	IVI		
					_	PL		
¹ Type: C=Concer	ntration, D=Depletion, F					PL		
Hydric Soils Indi		RM=Reduced Matrix, M	IS=Masked Sar	nd Grains.		PL ² Location: PL=Pc	Dre Lining, M=Matrix.	
-	icators: (Applicable t	RM=Reduced Matrix, N o all LRRs, unless ot	IS=Masked Sar	nd Grains.		PL ² Location: PL=Pc	ore Lining, M=Matrix.	ydric Soils ³ :
Histosol (A	icators: (Applicable t	RM=Reduced Matrix, M to all LRRs, unless of	IS=Masked Sar herwise noted Polyvalue	nd Grains. .) e Below Surface	e (S8) (LRR S, T,	PL ² Location: PL=Pc	ore Lining, M=Matrix. Indicators for Problematic H 1 cm Muck (A9) (LRR (lydric Soils ³ :
Histosol (A Histic Epipe	licators: (Applicable t .1) edon (A2)	RM=Reduced Matrix, N o all LRRs, unless ot	IS=Masked Sar herwise noted Polyvalue Thin Dark	nd Grains. .) e Below Surface k Surface (S9) (e (S8) (LRR S, T, LRR S, T, U)	<u>PL</u> ² Location: PL=Pc	Dre Lining, M=Matrix. Indicators for Problematic H 1 cm Muck (A9) (LRR (2 cm Muck (A10) (LRR	lydric Soils ³ :)) S)
Histosol (A Histic Epipe Black Histic	licators: (Applicable t .1) edon (A2) c (A3)	RM=Reduced Matrix, <u>N</u> o all LRRs, unless ot	IS=Masked Sar herwise noted Polyvalue Thin Dark Loamy M	nd Grains. .) e Below Surface k Surface (S9) (lucky Mineral (F	e (S8) (LRR S, T, LRR S, T, U) 1) (LRR O)	<u>PL</u> <u>²Location: PL=Pc</u>	Indicators for Problematic H 1 cm Muck (A9) (LRR (2 cm Muck (A10) (LRR Reduced Vertic (F18) (lydric Soils ³ :)) S) Jutside MLRA 150A,B)
Histosol (A Histic Epipe Black Histic Hydrogen S	iicators: (Applicable t .1) edon (A2) c (A3) Sulfide (A4)	RM=Reduced Matrix, N to all LRRs, unless ot - - -	IS=Masked Sar herwise noted Polyvalue Thin Dark Loamy M Loamy G	nd Grains. .) e Below Surface k Surface (S9) (lucky Mineral (F ileyed Matrix (F2	9 (S8) (LRR S, T, LRR S, T, U) 1) (LRR O) 2)	PL 	Indicators for Problematic H 1 cm Muck (A9) (LRR (2 cm Muck (A10) (LRR Reduced Vertic (F18) (Piedmont Floodplain Sc	lydric Soils ³ :)) S) Jutside MLRA 150A,B) ils (F19) (LRR P, S, T)
Histosol (A Histic Epipe Black Histic Hydrogen S Stratified La	licators: (Applicable t .1) edon (A2) c (A3) Sulfide (A4) ayers (A5)	RM=Reduced Matrix, <u>N</u> to all LRRs, unless ot	IS=Masked Sar herwise noted Polyvalue Thin Dark Loamy M Loamy G X Depleted	nd Grains. .) e Below Surface k Surface (S9) (lucky Mineral (F ileyed Matrix (F3)	e (S8) (LRR S, T, LRR S, T, U) (1) (LRR O) 2)	PL 2Location: PL=Pc U)	Indicators for Problematic H 1 cm Muck (A9) (LRR (2 cm Muck (A10) (LRR Reduced Vertic (F18) (Piedmont Floodplain Sc Anomalous Bright Loan	lydric Soils ³ :)) S) putside MLRA 150A,B) ils (F19) (LRR P, S, T) y Soils (F20)
Histosol (A Histic Epipe Black Histic Hydrogen S Stratified La Organic Bo	icators: (Applicable t .1) edon (A2) c (A3) Sulfide (A4) ayers (A5) odies (A6) (LRR P, T, U	RM=Reduced Matrix, N to all LRRs, unless ot - - - - - -	IS=Masked Sar herwise noted Polyvalue Thin Darl Loamy M Loamy G X Depleted Redox Da	nd Grains. .) e Below Surface k Surface (S9) (lucky Mineral (F ileyed Matrix (F3) ark Surface (F6	e (S8) (LRR S, T, LRR S, T, U) (1) (LRR O) 2)	 PL ² Location: PL=Pc U)	Indicators for Problematic H Indicators for Problematic H 1 cm Muck (A9) (LRR (2 cm Muck (A10) (LRR Reduced Vertic (F18) (Piedmont Floodplain Sc Anomalous Bright Loan (MLRA 153B)	lydric Soils ³ :)) S) putside MLRA 150A,B) ils (F19) (LRR P, S, T) y Soils (F20)
Histosol (A Histic Epipe Black Histic Hydrogen S Stratified La Organic Bo	icators: (Applicable t .1) edon (A2) c (A3) Sulfide (A4) ayers (A5) odies (A6) (LRR P, T, U ry Mineral (A7) (LRR P,	RM=Reduced Matrix, N to all LRRs, unless ot - - - - - - - - - - - - - - - - - - -	IS=Masked Sar herwise noted Polyvalue Thin Darl Loamy M Loamy G X Depleted Redox Da Depleted	nd Grains. .) e Below Surface k Surface (S9) (lucky Mineral (F ileyed Matrix (F3) Matrix (F3) ark Surface (F6 Dark Surface (e (S8) (LRR S, T, LRR S, T, U) (1) (LRR O) 2)) F7)	 	Indicators for Problematic H Indicators for Problematic H 1 cm Muck (A9) (LRR (2 cm Muck (A10) (LRR Reduced Vertic (F18) (r Piedmont Floodplain Sc Anomalous Bright Loan (MLRA 153B) Red Parent Material (TI	lydric Soils ³ :)) S) putside MLRA 150A,B) ils (F19) (LRR P, S, T) iy Soils (F20) 2)
Histosol (A Histic Epipe Black Histic Hydrogen S Stratified La Organic Bo 5 cm Muck Muck Prese	icators: (Applicable t .1) edon (A2) c (A3) Sulfide (A4) ayers (A5) odies (A6) (LRR P, T, U ry Mineral (A7) (LRR P, ence (A8) (LRR U)	RM=Reduced Matrix, N to all LRRs, unless ot - - - - - - - - - - - - - - - - - - -	IS=Masked Sar herwise noted Polyvalue Thin Dari Loamy M Loamy G X Depleted Redox De Depleted Redox Do	nd Grains.) e Below Surface k Surface (S9) (lucky Mineral (F leyed Matrix (F3) Matrix (F3) ark Surface (F6 Dark Surface (F8)	9 (S8) (LRR S, T, LRR S, T, U) (1) (LRR O) 2)) F7)	 PL ² Location: PL=Pc U)	Indicators for Problematic H Indicators for Problematic H 1 cm Muck (A9) (LRR (2 cm Muck (A10) (LRR Reduced Vertic (F18) (r Piedmont Floodplain Sc Anomalous Bright Loan (MLRA 153B) Red Parent Material (TI Very Shallow Dark Surf	lydric Soils ³ :)) S) putside MLRA 150A,B) ils (F19) (LRR P, S, T) iy Soils (F20) ⁽²⁾ ice (TF12)
Histosol (A Histic Epipe Black Histic Hydrogen S Stratified La Organic Bo 5 cm Muck Muck Prese 1 cm Muck	icators: (Applicable t .1) edon (A2) c (A3) Sulfide (A4) ayers (A5) odies (A6) (LRR P, T, U ry Mineral (A7) (LRR P, ence (A8) (LRR U) : (A9) (LRR P, T)	RM=Reduced Matrix, N to all LRRs, unless ot	IS=Masked Sar herwise noted Polyvalue Thin Darl Loamy M Loamy G X Depleted Redox Dr Depleted Redox Dr Marl (F10	nd Grains.) e Below Surface k Surface (S9) (lucky Mineral (F leyed Matrix (F3) Matrix (F3) ark Surface (F6 Dark Surface (F6 Dark Surface (F8)) 0) (LRR U)	e (S8) (LRR S, T, LRR S, T, U) (1) (LRR O) 2)) F7)	2Location: PL=Pc	Indicators for Problematic H Indicators for Problematic H I cm Muck (A9) (LRR (2 cm Muck (A10) (LRR Reduced Vertic (F18) (r Piedmont Floodplain Sc Anomalous Bright Loan (MLRA 153B) Red Parent Material (TT Very Shallow Dark Surf Other (Explain in Rema	lydric Soils ³ :)) S) putside MLRA 150A,B) ils (F19) (LRR P, S, T) iy Soils (F20) ⁽²⁾ ice (TF12) ks)
Histosol (A Histic Epipe Black Histic Hydrogen S Stratified La Organic Bo 5 cm Muck Muck Prese 1 cm Muck	icators: (Applicable t .1) edon (A2) c (A3) Sulfide (A4) ayers (A5) obdies (A6) (LRR P, T, U y Mineral (A7) (LRR P, ence (A8) (LRR U) : (A9) (LRR P, T) Selow Dark Surface (A1)	RM=Reduced Matrix, N to all LRRs, unless ot - - - - - - - - - - - - - - - - - - -	IS=Masked Sar herwise noted Polyvalue Thin Dari Loamy M Loamy G X Depleted Redox De Depleted Mari (F10 Depleted	nd Grains.) e Below Surface k Surface (S9) (lucky Mineral (F leyed Matrix (F3) ark Surface (F6 Dark Surface (F6 Dark Surface (F8) 0) (LRR U) 0 Ochric (F11) (I	9 (S8) (LRR S, T, LRR S, T, U) (1) (LRR O) 2)) F7)) WLRA 151)	2Location: PL=Pc	Indicators for Problematic H Indicators for Problematic H 1 cm Muck (A9) (LRR (2 cm Muck (A10) (LRR Reduced Vertic (F18) (r Piedmont Floodplain Sc Anomalous Bright Loan (MLRA 153B) Red Parent Material (TT Very Shallow Dark Surf Other (Explain in Rema	lydric Soils ³ :)) S) butside MLRA 150A,B) ils (F19) (LRR P, S, T) iy Soils (F20) ⁽²⁾ ice (TF12) ks)
Histosol (A Histic Epipe Black Histic Hydrogen S Stratified La Organic Bo 5 cm Muck Muck Prese 1 cm Muck Depleted B Thick Dark	icators: (Applicable t .1) edon (A2) c (A3) Sulfide (A4) ayers (A5) obdies (A6) (LRR P, T, U y Mineral (A7) (LRR P, ence (A8) (LRR U) c (A9) (LRR P, T) Selow Dark Surface (A1 Surface (A12)	RM=Reduced Matrix, N to all LRRs, unless ot - - - - - - - - - - - - - - - - - - -	IS=Masked Sar herwise noted Polyvalue Thin Dari Loamy M Loamy G X Depleted Redox De Depleted Redox Do Mari (F10 Depleted Iron-Man	nd Grains.) e Below Surface k Surface (S9) (lucky Mineral (F leyed Matrix (F3) ark Surface (F6 Dark Surface (F0 Dark Surface (C epressions (F8) 0) (LRR U) 1 Ochric (F11) (I ganese Masses	e (S8) (LRR S, T, LRR S, T, U) ⁽¹⁾ (LRR O) 2)) F7)) MLRA 151) ≅ (F12) (LRR O, I	U)	Indicators for Problematic H Indicators for Problematic H I cm Muck (A9) (LRR (2 cm Muck (A10) (LRR Reduced Vertic (F18) (r Piedmont Floodplain Sc Anomalous Bright Loan (MLRA 153B) Red Parent Material (TT Very Shallow Dark Surf Other (Explain in Rema ³ Indicators of hydrop	lydric Soils ³ :)) S) putside MLRA 150A,B) ils (F19) (LRR P, S, T) iy Soils (F20) ² 2) ace (TF12) ks) hytic vegetation and wetland
Histosol (A Histic Epipe Black Histic Hydrogen S Stratified La Organic Bo 5 cm Muck Muck Prese 1 cm Muck Depleted B Thick Dark	icators: (Applicable t .1) edon (A2) c (A3) Sulfide (A4) ayers (A5) odies (A6) (LRR P, T, U y Mineral (A7) (LRR P, ence (A8) (LRR U) : (A9) (LRR P, T) Selow Dark Surface (A1 . Surface (A12) rie Redox (A16) (MLRA	RM=Reduced Matrix, N to all LRRs, unless ot	IS=Masked Sar herwise noted Polyvalue Thin Dari Loamy M Loamy G X Depleted Redox De Depleted Mari (F10 Depleted Iron-Man Umbric S	nd Grains.) e Below Surface k Surface (S9) (lucky Mineral (F leyed Matrix (F3) ark Surface (F6 Dark Surface (F0 Dark Surface (F1)) (LCR U) Ochric (F11) (I ganese Masses Surface (F13) (L	 ⇒ (S8) (LRR S, T, LRR S, T, U) 1) (LRR O) 2) > <l< td=""><td>U)</td><td>Indicators for Problematic H Indicators for Problematic H I cm Muck (A9) (LRR (2 cm Muck (A10) (LRR Reduced Vertic (F18) (r Piedmont Floodplain Sc Anomalous Bright Loan (MLRA 153B) Red Parent Material (TT Very Shallow Dark Surf Other (Explain in Rema ³Indicators of hydrop hydrology must be p problematic.</td><td>lydric Soils³:)) S) putside MLRA 150A,B) ils (F19) (LRR P, S, T) iy Soils (F20) ^{:2}) ace (TF12) rks) hytic vegetation and wetland esent, unless disturbed or</td></l<>	U)	Indicators for Problematic H Indicators for Problematic H I cm Muck (A9) (LRR (2 cm Muck (A10) (LRR Reduced Vertic (F18) (r Piedmont Floodplain Sc Anomalous Bright Loan (MLRA 153B) Red Parent Material (TT Very Shallow Dark Surf Other (Explain in Rema ³ Indicators of hydrop hydrology must be p problematic.	lydric Soils ³ :)) S) putside MLRA 150A,B) ils (F19) (LRR P, S, T) iy Soils (F20) ^{:2}) ace (TF12) rks) hytic vegetation and wetland esent, unless disturbed or
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Histosol (A Histic Epipe Black Histic Hydrogen S Stratified La Organic Bo 5 cm Muck Muck Prese 1 cm Muck Depleted B Thick Dark Coast Prair Sandy Muc Sandy Muc Sandy Gley Sandy Red Stripped Ma Dark Surfae Restrictive Laye Type: Depth (in	icators: (Applicable t .1) edon (A2) c (A3) Sulfide (A4) ayers (A5) odies (A6) (LRR P, T, U y Mineral (A7) (LRR P, ence (A8) (LRR U) : (A9) (LRR P, T) selow Dark Surface (A1 Surface (A12) rie Redox (A16) (MLRA cky Mineral (S1) (LRR C) yed Matrix (S4) lox (S5) latrix (S6) cc (S7) (LRR P, S, T, U or (f observed): 	RM=Reduced Matrix, N to all LRRs, unless of	As-Masked Sar herwise noted Polyvalue Thin Darl Loamy M Loamy G X Depleted Redox D: Depleted Redox D: Marl (F1C Depleted Iron-Man, Umbric S Delta Ocl Reduced Piedmont Anomalor	nd Grains.) e Below Surface (S9) (lucky Mineral (F leyed Matrix (F3) ark Surface (F6 Dark Surface (F Dark Surface (F13) (I Gothric (F17) (MLR Vertic (F17) (MLR Vertic (F18) (M t Floodplain Soi us Bright Loamy	(S8) (LRR S, T, LRR S, T, U) (1) (LRR O) (1) (LRR O) (2) (2) (1) (LRR O) (5 (F12) (LRR O, I (1) (LRR	PL PL=P(² Location: PL=P(U) ² , T) ³ ^{49A)} ³ A 149A, 153C, 15 Hydric	Dere Lining, M=Matrix. Indicators for Problematic I 1 cm Muck (A9) (LRR C 2 cm Muck (A10) (LRR Reduced Vertic (F18) ((Piedmont Floodplain Sc Anomalous Bright Loan (MLRA 153B) Red Parent Material (TI Very Shallow Dark Surf Other (Explain in Rema ³ Indicators of hydrog hydrology must be p problematic. 3D) Soil Present? Yes	lydric Soils ³ :)) S) putside MLRA 150A,B) ills (F19) (LRR P, S, T) iyo Soils (F20) :2) ace (TF12) rks) hytic vegetation and wetland 'esent, unless disturbed or
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Histosol (A Histic Epipe Black Histic Hydrogen S Stratified L Organic Bo 5 cm Muck Muck Prese 1 cm Muck Depleted B Thick Dark Coast Prair Sandy Muc Sandy Muc Sandy Gley Sandy Red Stripped M Dark Surfae Restrictive Laye Type: Depth (inc Remarks: A positive indicati	icators: (Applicable t .1) edon (A2) c (A3) Sulfide (A4) ayers (A5) odies (A6) (LRR P, T, U y Mineral (A7) (LRR P, ence (A8) (LRR U) : (A9) (LRR P, T) Helow Dark Surface (A1 Surface (A12) rie Redox (A16) (MLRA cky Mineral (S1) (LRR C) yed Matrix (S4) lox (S5) latrix (S6) cc (S7) (LRR P, S, T, U or (if observed): 	RM=Reduced Matrix, N to all LRRs, unless of 	As-Masked Sar herwise noted Polyvalue Thin Darl Loamy M Loamy G X Depleted Redox D: Depleted Iron-Man, Umbric S Delta Ocl Reduced Piedmont Anomalou	nd Grains.) e Below Surface (S9) (lucky Mineral (F leyed Matrix (F3) ark Surface (F6 Dark Surface (F Dark Surface (F pressions (F8) 0) (LRR U) 1 Ochric (F11) (I ganese Masses Surface (F13) (L hric (F17) (MLR Vertic (F18) (M t Floodplain Soi us Bright Loamy	(S8) (LRR S, T, LRR S, T, U) (1) (LRR O) (1) (LRR O) (2) (2) (1) (LRR O) (3) (F12) (LRR O, I (3) (F12) (LRR O, I (3) (F12) (LRR O, I (3) (F12) (MLRA 1) (4) (F19) (MLRA 1) (5) (F20) (MLR	PL 	Dre Lining, M=Matrix. Indicators for Problematic H 1 cm Muck (A9) (LRR (2 cm Muck (A10) (LRR (2 cm Muck (A10) (LRR (Piedmont Floodplain Sc Anomalous Bright Loan (MLRA 153B) Red Parent Material (TT Very Shallow Dark Surf Other (Explain in Rema ³ Indicators of hydrog hydrology must be p problematic. 3D) Soli Present? Yes	

		Absolute %	Dominant	Indicator	Dominance Test work	sheet		
		cover	Species	Status	Dominance reat work	Sheet.		
ree Stratum (Plot siz	:e: <u>30 ft.</u>)				Number of Dominant Sp	ecies		
Quercus nigra		30	Yes	FAC	That Are OBL, FACW, o	or FAC:	10	(A)
Triadica sebifera		25	Yes	FAC				
Quercus phellos			Yes	FACW	Total Number of Domina	ant		(5)
Liquidambar styraciflua		5	No	FAC	Species Across All Stra	ta:	10	(B)
·					Demonst of Deminent Co			
		75	= Total Cavar		That Are OBL EACW	ecles	100	D/ (A
	E00/ of total ages	75	- Total Cover	15	That Are Obl., FACW, C	DI FAG.	100	76 (A)
	50% OF LOTAL COVE	1. 37.3	20% 01 10121 00001.	15				
anling Stratum (Plot siz	7e: 30 ft)				Prevalence Index Wor	ksheet:		
Triadica sebifera	.e. <u> </u>	15	Yes	FAC	Total % (Cover of	,	Multiply by
			100	1710	OBL species	5		5
					EACW species	30	- x2=	60
				<u> </u>	FAC species	90	- x2 -	270
					FACU species	0	x 4 =	0
					UPL species	0	x 5 =	0
		15	= Total Cover		Column Totals:	125	(A)	335
	50% of total cove	r: 7.5	20% of total cover:	3	-		_ ` ′ _	
rub Stratum (Plot siz	ze: <u>30 ft.</u>)				Prevalence I	ndex = B/A =		2.68
llex decidua		5	Yes	FACW				
Quercus nigra		5	Yes	FAC	Hydrophytic Vegetatio	on Indicators:		
					1 - Rapid Te	st for Hydrophytic	Vegetation	
					X 2 - Dominan	ce Test is >50%		
					X 3 - Prevalen	ce Index is $\leq 3.0^1$		
					Problematic	Hydrophytic Vege	etation ¹ (Explair	ו)
		10	= Total Cover					
	50% of total cove	r: 5	20% of total cover:	2	¹ Indicators of hydric so	oil and wetland hy	drology must	
					be present, unless distu	rbed or problema	tic.	
erb Stratum (Plot siz	:e: <u>30 ft.</u>)	10		540	D.C. W			
Triadica sebirera		10	Yes	FAC	Definitions of Five Veg	getation Strata:		
Brunnichia ovata		5	Yes	FACW	Tree Marshallante -			
Sebel minor		5	Yes	OBL EACIN/	approximately 20 ft (6m)	xciuaing woody v	ines, t and 2 in	
Sabai minor			Tes	FACW	(7.6 cm) or lorger in dia) of more in neigh	iaht (DRU)	
					(7.6 cm) or larger in dial	neter at breast ne	аупі (рвп).	
			<u> </u>		Sapling - Woody plants	, excluding wood	v vines,	
					Sapling - Woody plants approximately 20 ft (6 m	, excluding wood	y vines, nt and less	
					Sapling - Woody plants approximately 20 ft (6 m than 3 in. (7.6 cm) DBH	, excluding wood n) or more in heigt	y vines, nt and less	
					Sapling - Woody plants approximately 20 ft (6 m than 3 in. (7.6 cm) DBH	, excluding wood) or more in heigt	y vines, nt and less	
					Sapling - Woody plants approximately 20 ft (6 m than 3 in. (7.6 cm) DBH Shrub - Woody plants,	, excluding wood) or more in heigh excluding woody	y vines, nt and less vines,	
			= Total Cover		Sapling - Woody plants approximately 20 ft (6 m than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 ft	, excluding wood) or more in heigh excluding woody (1 to 6 m) in heig	y vines, nt and less vines, ht.	
	50% of total cove		= Total Cover		Sapling - Woody plants approximately 20 ft (6 m than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 ft	, excluding wood) or more in heigh excluding woody (1 to 6 m) in heig	y vines, nt and less vines, ht.	
	50% of total cove	 r: 12.5	= Total Cover 20% of total cover:	5	Sapling - Woody plants approximately 20 ft (6 m than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous (, excluding wood) or more in heigh excluding woody (1 to 6 m) in heigh non-woody) plant	y vines, nt and less vines, ht. s, including	
oodv Vine Stratum ()	50% of total cove	 r: 12.5	= Total Cover 20% of total cover:	5	Sapling - Woody plants approximately 20 ft (6 m than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous (herbaceous vines, rega	, excluding wood) or more in heigh excluding woody (1 to 6 m) in heig non-woody) plant rdless of size, <u>and</u>	y vines, nt and less vines, ht. s, including <u>d</u> woody	
oody Vine Stratum (I	50% of total cove	 	= Total Cover 20% of total cover:	5	Sapling - Woody plants approximately 20 ft (6 m than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous (herbaceous vines, rega plants, except woody vii	, excluding wood) or more in heigh excluding woody (1 to 6 m) in heig non-woody) plant rdless of size, <u>and</u> nes, less than app	y vines, nt and less vines, ht. s, including <u>d</u> woody proximately	
oody Vine Stratum (I None Observed	50% of total cove	 	= Total Cover 20% of total cover:	5	Sapling - Woody plants approximately 20 ft (6 m than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous (herbaceous vines, rega plants, except woody vii 2 ft (1 m) in height.	, excluding wood) or more in heigh excluding woody (1 to 6 m) in heig non-woody) plant rdless of size, <u>and</u> nes, less than app	y vines, tt and less vines, ht. s, including <u>d</u> woody proximately	
oody Vine Stratum (I None Observed	50% of total cove	 	= Total Cover 20% of total cover:	5	Sapling - Woody plants approximately 20 ft (6 m than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous (herbaceous vines, rega plants, except woody vii 2 ft (1 m) in height.	, excluding wood) or more in heigh excluding woody (1 to 6 m) in heig non-woody) plant rdless of size, <u>and</u> nes, less than app	y vines, tt and less vines, ht. s, including <u>d</u> woody proximately	
loody Vine Stratum (I	50% of total cove	 	= Total Cover 20% of total cover:	5	Sapling - Woody plants approximately 20 ft (6 m than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous (i herbaceous vines, rega plants, except woody vii 2 ft (1 m) in height. Woody vine - All woody	;, excluding wood; i) or more in heigh excluding woody (1 to 6 m) in heig non-woody) plant; rdless of size, <u>and</u> nes, less than app y vines, regardles	y vines, nt and less vines, ht. s, including <u>d</u> woody groximately s of height.	
	50% of total cove		= Total Cover 20% of total cover:	5	Sapling - Woody plants approximately 20 ft (6 m than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous (herbaceous vines, rega plants, except woody vii 2 ft (1 m) in height. Woody vine - All woody	, excluding wood) or more in heigh excluding woody (1 to 6 m) in heig non-woody) plant rdless of size, <u>and</u> hes, less than app y vines, regardles	y vines, nt and less vines, ht. s, including <u>d</u> woody groximately s of height.	
/ <u>cody Vine Stratum</u> (I None Observed	50% of total cove	 	= Total Cover 20% of total cover:	5	Sapling - Woody plants approximately 20 ft (6 m than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous (herbaceous vines, rega plants, except woody vin 2 ft (1 m) in height. Woody vine - All woody Hydrophytic	;, excluding wood;) or more in heigh excluding woody (1 to 6 m) in heig non-woody) plant; rdless of size, <u>an</u> nes, less than app vines, regardles	y vines, nt and less vines, ht. s, including <u>d</u> woody groximately s of height.	
loody Vine Stratum (I None Observed	50% of total cove		= Total Cover 20% of total cover: 	5	Sapling - Woody plants approximately 20 ft (6 m than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous (1 herbaceous vines, rega plants, except woody vii 2 ft (1 m) in height. Woody vine - All woody Hydrophytic Vegetation	;, excluding wood) or more in heigh excluding woody (1 to 6 m) in heig non-woody) plant rdless of size, <u>an</u> nes, less than app vines, regardles	y vines, nt and less vines, ht. s, including <u>d</u> woody groximately s of height.	
oody Vine Stratum (I None Observed	50% of total cove		= Total Cover 20% of total cover: 	5	Sapling - Woody plants approximately 20 ft (6 m than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous (i herbaceous vines, rega plants, except woody vii 2 ft (1 m) in height. Woody vine - All woody Hydrophytic Vegetation Present?	;, excluding wood; a) or more in heigh - excluding woody (1 to 6 m) in heig non-woody) plant; rdless of size, <u>and</u> nes, less than app y vines, regardles y vines x	y vines, tt and less vines, ht. s, including <u>d</u> woody proximately s of height. No	



Site: Bob Anthony Parkway Relocation Location: SW 240 Jackson, Madison BAR MAR County, MS Photo No: 6 Date: 07/12/2023 **Description:** Wetland determination Data Point 3 looking south-southeast. Bob Anthony Parkwa

Project/Site:	Bob Anthony	y Parkway Relocatio	n	County:	Madison	Sampling	Date: July	11, 2023
Applicant/Owner:	Mis	sissippi Department	of Transportation		State:	Mississippi Sample F	Point:	DP4
Investigator(s):	Savannah R. Morales	and	Bettie Shoemaker	Section, Towns	ship, Range:	:	534, T7N, R2E	
Landform (hillslope, terrace	e, etc.):	Depress	ion	Local relief (c	oncave, convex, no	ne): Concave	Slope (%):	0-5
Subregion (LRR or MLRA):		LRR P, MLF	RA 134	Lat:	32.40796	Long: -90.08347	Datum:	NAD 83
Soil Map Unit Name:		C	ascilla-Calhoun assoc	siation		NWI Classification:	N//	Α
Are climatic / hydrologic cor	No Soil No	ai for this time of yea	r? No signifi	(Yes / NO)	Yes Are "Normal C	(If no, explain in Remari	(S.) Vec X	No
Are Vegetation	<u>No</u> Soil No	,or Hydrology	No natura	ally problematic?	Are Normar C	f needed explain any answe	rs in Remarks)	
SUMMARY OF FINE	DINGS - Attach si	te map showi	ng sampling po	int locations, t	ransects, imp	ortant features, etc.		
Hydrophytic Vegetation Pr	resent?	Ves X	No	,	· ·			
Hydric Soil Present?		Yes X	No	- Is the Samp	led Area			
Wetland Hydrology Preser	nt?	Yes X	No	within a We	tland?	Yes X	No	
Bomarke:				-				
This point was detern	nined to be within a wetla	and due to the prese	nce of all three wetlan	nd criteria.				
HYDROLOGY								
Wetland hydrology	Indicators:					Sacandan Indicatora (n	ainimum of two required	
Primary Indicators (m		d: check all that ann	hz)			Secondary Indicators (n	ninimum or two required)
X Surface Wate	er (A1)	u, check all that app	Aquatic Fauna (E	313)		Sparsely Vegeta	ited Concave Surface (F	38)
High Water Ta	able (A2)		Marl Deposits (B	15) (LRR U)		Drainage Patter	ns (B10)	50)
X Saturation (A3	3)		Hydrogen Sulfide	e Odor (C1)		Moss Trim Lines	(B16)	
Water Marks	(B1)		Oxidized Rhizosp	pheres on Living Roc	ots(C3)	Dry-Season Wa	ter Table (C2)	
X Sediment Dep	posits (B2)		Presence of Red	luced Iron (C4)		X Crayfish Burrow	s (C8)	
Drift Deposits	; (B3)		Recent Iron Red	uction in Tilled Soils	(C6)	Saturation Visib	e on Aerial Imagery (C9)
X Algal Mat or C	Crust (B4)	<u> </u>	Thin Muck Surface	ce (C7)		Geomorphic Pos	sition (D2)	
Iron Deposits	(B5)		Other (Explain in	Remarks)		Shallow Aquitare	1 (D3)	
Inundation Vis	sible on Aerial Imagery (E	37)				X FAC-Neutral Te	st (D5)	
Water-Stained	d Leaves (B9)					Sphaghum mos	(D8) (LRR 1, 0)	
Field Observations:								
Surface Water Present?	Yes X	No	Depth (inc	ches): 1	Wetland Hyd	rology Present?	Yes <u>X</u> No	·
Water Table Present?	Yes	No <u>X</u>	Depth (inc	ches): >16				
Describe Recorded D)ata (stream gauge mon	nitoring well aerial pl	notos previous inspec	rtions) if available:				
	Suta (Stream gauge, mon	ntoring weil, dendi pi	lotos, providuo inspec	stono), il avaliable.				
Remarks:								
A positive indication of	of wetland hydrology was	observed (at least	one primary indicator)	L				
A positive indication of	of wetland hydrology was	s observed (at least	one primary indicator)					
A positive indication of SOIL	of wetland hydrology was	s observed (at least	one primary indicator)					
A positive indication of SOIL Profile Description:	of wetland hydrology was	s observed (at least	one primary indicator)	confirm the absence	e of indicators.)			
A positive indication of SOIL Profile Description: Depth	of wetland hydrology was (Describe to the depth Matrix	s observed (at least	one primary indicator) nent the indicator or Redo	confirm the absence	e of indicators.)			
A positive indication of SOIL Profile Description: Depth (inches) 0.10	of wetland hydrology was (Describe to the depth Matrix Color (moist)	h needed to docum	ene primary indicator) nent the indicator or Reda (moist) %	confirm the absence ox Features Type1	e of indicators.)	Texture	Remarks	<u> </u>
A positive indication of SOIL Profile Description: Depth	of wetland hydrology was (Describe to the deptt Matrix Color (moist) 10YR 5/1	s observed (at least h needed to docum % Color 75 10Y1	one primary indicator) nent the indicator or Redard (moist) % 2 5/8 15 2 4/6 10	confirm the absence ox Features 	e of indicators.)	Texture	Remarks	<u> </u>
A positive indication of SOIL Profile Description: Depth (inches) 0-16	of wetland hydrology was (Describe to the deptt Matrix Color (moist) 10YR 5/1	s observed (at least h needed to docum % Color 75 10YI 10YI	Number of the indicator or or rest Redards (moist) % R 5/8 15 R 4/6 10	confirm the absence ox Features Type ¹ C C	e of indicators.) Loc ² M PL	Texture Silt Loam	Remarks	<u> </u>
A positive indication of SOIL Profile Description: Depth (inches) 0-16	of wetland hydrology was (Describe to the deptt Matrix Color (moist) 10YR 5/1	h needed to docum <u>%</u> <u>Color</u> 75 <u>10Y1</u> <u>10Y1</u>	Number Red Image: Red % R 5/8 15 R 4/6 10	confirm the absenc ox Features Type ¹ C C	e of indicators.) Loc ² M PL	Texture Silt Loam	Remarks	s
A positive indication of SOIL Profile Description: Depth (inches) 0-16	of wetland hydrology was (Describe to the depth Matrix Color (moist) 10YR 5/1	a observed (at least h needed to docum % Color 75 10YI 10YI	one primary indicator) ment the indicator or Reduction (moist) % ₹ 5/8 15 ₹ 4/6 10	confirm the absenc ox Features Type ¹ C C	e of indicators.) <u>Loc²</u> M PL 	Texture Silt Loam	Remarks	<u>8</u>
A positive indication of SOIL Profile Description: Depth (inches) 0-16	of wetland hydrology was (Describe to the depth Matrix Color (moist) 10YR 5/1 	h needed to docum Color Color 75 10YI Reduced Matrix, MS3	ene primary indicator) The indicator or Reduce (moist) R-5/8 15 10	confirm the absenc ox Features <u>Type1</u> <u>C</u> <u>C</u> 	e of indicators.)		Remarks	<u></u>
A positive indication of SOIL Profile Description: Depth (inches) 0-16 1 Type: C=Concentral Hydric Soils Indication	of wetland hydrology was (Describe to the depth Matrix Color (moist) 10YR 5/1 tion, D=Depletion, RM=R ors: (Applicable to all	h needed to docum Color	ene primary indicator) teent the indicator or Redd (moist) % 15 24/6 10	confirm the absenc ox Features <u>Type¹</u> <u>C</u> <u>C</u> 	e of indicators.) Loc ² M PL 2Location: PL	Texture Sit Loam =Pore Lining, M=Matrix. Indicators for Problem	Remarks	<u> </u>
A positive indication of SOIL Profile Description: Depth (inches) 0-16 1 Type: C=Concentral Hydric Soils Indicate Histosol (A1)	of wetland hydrology was (Describe to the depti Matrix Color (moist) 10YR 5/1 tion, D=Depletion, RM=R ors: (Applicable to all	h needed to docum Color	ene primary indicator) teent the indicator or Redd (moist) % 15 74/6 10	confirm the absence ox Features <u>Type1</u> <u>C</u> C 	e of indicators.) <u>Loc²</u> <u>M</u> <u>PL</u> <u>2Location: PL</u> T, U)	Texture Silt Loam =Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (Remarks	s
A positive indication of SOIL Profile Description: Depth (inches) 0-16 1 Type: C=Concentral Hydric Soils Indicate Histosol (A1) Histic Epipedor	of wetland hydrology was (Describe to the depti Matrix Color (moist) 10YR 5/1 10YR 5/1 tion, D=Depletion, RM=R ors: (Applicable to all n (A2)	h needed to docum Color Color Color S Color T5 10Y1 10Y1 Ceduced Matrix, MS: LRRs, unless othe	ene primary indicator) enent the indicator or Redd (moist) % 5/8 15 R 4/6 10 Endition R 5/8 15 R 4/6 10 Endition R 5/8 15 R 4/6 10 R 5/8 15 R 5/8 1	Confirm the absence ox Features	e of indicators.) <u>Loc²</u> <u>M</u> <u>PL</u> <u>2Location: PL</u> T, U)	Texture Sit Loam Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10)	Remarks	s
A positive indication of SOIL Profile Description: Depth (inches) 0-16 ' 'Type: C=Concentral Hydric Soils Indicato Histosol (A1) Histic Epipedor Black Histic (A)	of wetland hydrology was (Describe to the depti Matrix Color (moist) 10YR 5/1 10YR 5/1 	h needed to docum Color Color S Color T5 10Y1 10Y1 Reduced Matrix, MS: LRRs, unless othe	ene primary indicator) enent the indicator or Redd (moist) % 3.5/8 15 3.4/6 10 Endition Endit Endit Endition Endition Endition Endition En	Confirm the absence ox Features <u>C</u> <u>C</u> C 	e of indicators.) <u>Loc²</u> <u>M</u> <u>PL</u> ² Location: PL T, U)	Texture Silt Loam =Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) Reduced Vertic (I	Remarks Remark	<u>а</u>
A positive indication of SOIL Profile Description: Depth (inches) 0-16 0-16 0-16 0-16 0-16 0-16 0-16 0-16	of wetland hydrology was (Describe to the depth Matrix Color (moist) 10YR 5/1 10YR 5/1 	h needed to docum Color Color S Color T5 10Y1 10Y1 Reduced Matrix, MS: LRRs, unless othe	ene primary indicator) enent the indicator or Redd (moist) % 3.5/8 15 R.4/6 10 EMasked Sand Grains rwise noted.) Polyvalue Below S Thin Dark Surface Loamy Mucky Min Loamy Gleyed Mat	Confirm the absence ox Features C C C 	e of indicators.) <u>Loc²</u> <u>M</u> <u>PL</u> <u>2Location: PL</u> T, U)	Texture Silt Loam =Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) Reduced Vertic (I Piedmont Floodp) Piedmont Floodp)	Remarks Remark	з 0А,В) S, T)
A positive indication of SOIL Profile Description: Depth (inches) 0-16 0-16 0-16 0-16 0-16 0-16 0-16 0-16	of wetland hydrology was (Describe to the depti Matrix Color (moist) 10YR 5/1 10YR 5/1 	h needed to docum <u>%</u> <u>Color</u> 75 <u>10Y1</u> <u>10Y1</u> <u>Reduced Matrix, MS</u> : LRRs, unless othe	ene primary indicator) enent the indicator or Redd (moist) S 5/8 5 4/6 10	Confirm the absence ox Features C C C 	e of indicators.) <u>Loc²</u> <u>M</u> <u>PL</u> <u>2Location: PL</u> T, U)	Texture Silt Loam =Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) 2 cm Muck (A10) Reduced Vertic (I Piedmont Floodpl Anomalous Brigh	Remarks Rem	5
A positive indication of SOIL Profile Description: Depth (inches) 0-16 ''Type: C=Concentral ''Type: C=Concentral Hydric Soils Indicato Histosol (A1) Histic Epipedor Black Histic (A2) Hydrogen Sulfi Stratified Layer Organic Bodies 5 cm Mucky Mi	of wetland hydrology was (Describe to the depti Matrix Color (moist) 10YR 5/1 	h needed to docum <u>%</u> <u>Color</u> 75 10Y1 <u>10Y1</u> Reduced Matrix, MS: LRRs, unless othe <u>2</u> 2	ene primary indicator) enent the indicator or Redd (moist) % 3.5/8 15 R 4/6 10 =Masked Sand Grains rwise noted.) Polyvalue Below S Thin Dark Surface Loamy Mucky Min Loamy Gleyed Ma Redox Dark Surfa Depleted Matrix (F Redox Dark Surfa	Confirm the absence ox Features C C C 	e of indicators.) <u>Loc²</u> <u>M</u> <u>PL</u> <u>²Location: PL</u> T, U)	Texture Silt Loam =Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) 2 cm Muck (A10) Reduced Vertic (I Piedmont Floodpl Anomalous Brigh (MLRA 153B) Red Parent Mate	Remarks Rem	5
A positive indication of SOIL Profile Description: Depth (inches) 0-16 0-16 0-16 0-16 0-16 0-16 0-16 0-16	of wetland hydrology was (Describe to the depti Matrix Color (moist) 10YR 5/1 	h needed to docum <u>%</u> <u>Color</u> 75 10Y1 <u>10Y1</u> <u>Reduced Matrix, MS</u> LRRs, unless othe <u>3</u>	ene primary indicator) enent the indicator or Redd (moist) % 3.5/8 15 R.4/6 10 =Masked Sand Grains rwise noted.) =Polyvalue Below S Thin Dark Surface Loamy Mucky Min Loamy Gleyed Ma Kopeleted Matrix (F Redox Dark Surfa Depleted Dark Surfa Redox Deression	Confirm the absence ox Features C C C 	e of indicators.) <u>Loc²</u> <u>M</u> <u>PL</u> <u>²Location: PL</u> T, U)	Texture Silt Loam =Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) Reduced Vertic (I Piedmont Floodpl Anomalous Brigh (MLRA 153B) Red Parent Mate Very Shallow Dar	Remarks Rem	5
A positive indication of SOIL Profile Description: Depth (inches) 0-16 0-16 0-16 0-16 0-16 0-16 0-16 0-16	of wetland hydrology was (Describe to the depth Matrix Color (moist) 10YR 5/1 10YR 5/1 10Y	h needed to docum Color Colo	ene primary indicator) enent the indicator or Redd (moist) % 3.5/8 15 R 4/6 10 =Masked Sand Grains rwise noted.) Polyvalue Below S Thin Dark Surface Loamy Mucky Min Loamy Gleyed Ma C Depleted Matrix (F Redox Dark Surfa Depleted Dark Surfa Depleted Dark Surfa Redox Depressior Marl (F10) (LRR L	Confirm the absence ox Features C C C 	e of indicators.) <u>Loc²</u> <u>PL</u> <u>²Location: PL</u> T, U)	Texture Silt Loam Silt Loam 	Remarks Remarks Remarks Remarks Remarks	5
A positive indication of SOIL Profile Description: Depth (inches) 0-16 0-	of wetland hydrology was (Describe to the depth Matrix Color (moist) 10YR 5/1 10YR 5/1 10Y	h needed to docum <u>%</u> <u>Color</u> 75 10Y1 <u>10Y1</u> <u>Reduced Matrix, MS</u> LRRs, unless othe <u>3</u>	ene primary indicator) enent the indicator or Redd (moist) % 3.5/8 15 R 4/6 10 =Masked Sand Grains rwise noted.) Polyvalue Below S Thin Dark Surface Loamy Mucky Min Loepleted Matrix (F Redox Dark Surfa Depleted Dark Surfa Redox Depressior Marl (F10) (LRR L	Confirm the absence ox Features C C C 	e of indicators.) <u>Loc²</u> <u>M</u> <u>PL</u> <u>²Location: PL</u> T, U)	Texture Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) Reduced Vertic (I Piedmont Floodpl Anomalous Brigh (MLRA 153B) Red Parent Mate Very Shallow Dar Other (Explain in	Remarks Remarks Remarks Remarks Remarks Remarks Remarks	5
A positive indication of SOIL Profile Description: Depth (inches) 0-16 0-	of wetland hydrology was (Describe to the depth Matrix Color (moist) 10YR 5/1 10YR 5/1 10Y	h needed to docum Color Colo	ene primary indicator) enent the indicator or Redd (moist) % 3.5/8 15 R.4/6 10 endet Reds Sand Grains rwise noted.) Polyvalue Below S Thin Dark Surface Loamy Mucky Min Loamy Gleyed Matrix (F Redox Dark Surfa Depleted Matrix (F Redox Dark Surfa Depleted Dark Surfa Depleted Dark Surfa Depleted Dark Surfa Redox Depressior Marl (F10) (LRR L Depleted Ochric (I Iron-Manganese N	Confirm the absence ox Features C C C C C C C C C C C C C C C C C C C	e of indicators.)MPL	Texture Silt Loam =Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) 2 cm Muck (A10) Reduced Vertic (I Piedmont Floodpl Anomalous Brigh (MLRA 153B) Red Parent Mate Very Shallow Dar Other (Explain in ³ Indicators of f	Remarks matic Hydric Soils ³ : LRR O) (LRR S) F18) (outside MLRA 15 ain Soils (F19) (LRR P, t Loamy Soils (F20) rial (TF2) k Surface (TF12) Remarks) hydrophytic vegetation a	5
A positive indication of SOIL Profile Description: Depth (inches) 0-16 0-	of wetland hydrology was (Describe to the depth Matrix Color (moist) 10YR 5/1 10YR 5/1 10Y	h needed to docum Color Colo	ene primary indicator) enent the indicator or Redd((moist) % 3.5/8 15 3.4/6 10	Confirm the absence ox Features C C C C C C C C C C C C C C C C C C C	e of indicators.) <u>Loc²</u> <u>PL</u> <u>2Location: PL</u> T, U)	Texture Silt Loam =Pore Lining, M=Matrix. Indicators for Problen 1 cm Muck (A9) (2 cm Muck (A10) 2 cm Muck (A10) 2 cm Muck (A10) 2 cm Muck (A10) Reduced Vertic (I 	Remarks Rem	5 60A,B) 5, T) nd wetland turbed or
A positive indication of SOIL Profile Description: Depth (inches) 0-16 0-	of wetland hydrology was (Describe to the depth Matrix Color (moist) 10YR 5/1 10YR 5/1 10Y	A)	ene primary indicator) enent the indicator or Redd((moist) % 3.5/8 15 R.4/6 10 R.4/6 10 Redox Dark Surface Loamy Mucky Min Loamy Gleyed Matrix (F Redox Dark Surfa Depleted Matrix (F Redox Dark Surfa Depleted Dark Surfa Depleted Dark Surfa Depleted Dark Surfa Redox Depressior Marl (F10) (LRR L Depleted Ochric (I Iron-Manganese N Umbric Surface (F Delta Ochric (F17)	Confirm the absence ox Features C C C C C C C C C C C C C C C C C C C	e of indicators.) <u>Loc²</u> <u>PL</u> <u>2Location: PL</u> T, U)	Texture Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) Reduced Vertic (I Piedmont Floodpl Anomalous Brigh (MLRA 153B) Red Parent Mate Very Shallow Dar Other (Explain in ³ Indicators of f hydrology mus problematic.	Remarks matic Hydric Soils ³ : LRR O) (LRR S) F18) (outside MLRA 15 ain Soils (F19) (LRR P, t Loamy Soils (F20) rial (TF2) k Surface (TF12) Remarks) nydrophytic vegetation a t be present, unless dist	3 30A,B) S, T) nd wetland turbed or
A positive indication of SOIL Profile Description: Depth (inches) 0-16 0-	of wetland hydrology was (Describe to the depth Matrix Color (moist) 10YR 5/1 10YR 5/1 10Y	A)	ene primary indicator) enent the indicator or Redd((moist) % 3.5/8 15 R.4/6 10 R.4/6 10 Redox Dark Surface Loamy Mucky Min Loamy Gleyed Matrix (F Redox Dark Surfa Depleted Matrix (F Redox Dark Surfa Depleted Dark Surfa Depleted Dark Surfa Depleted Dark Surfa Redox Depressior Marl (F10) (LRR L Depleted Ochric (I Iron-Manganese N Umbric Surface (F Delta Ochric (F17) Reduced Vertic (F	Confirm the absence ox Features C C C C C C C C C C C C C C C C C C C	e of indicators.) <u>Loc²</u> <u>M</u> <u>PL</u> <u>2Location: PL</u> T, U) O, P, T) S0B)	Texture Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) Reduced Vertic (I Piedmont Floodpl Anomalous Brigh (MLRA 153B) Red Parent Mate Very Shallow Dar Other (Explain in ³ Indicators of I hydrology mus problematic.	Remarks matic Hydric Soils ³ : LRR O) (LRR S) F18) (outside MLRA 15 ain Soils (F19) (LRR P, t Loamy Soils (F20) rial (TF2) k Surface (TF12) Remarks) nydrophytic vegetation a t be present, unless dist	5 60A,B) 5, T) nd wetland turbed or
A positive indication of SOIL Profile Description: Depth (inches) 0-16 ''Type: C=Concentral Hydric Soils Indicat Histosol (A1) Histic Epipedon Black Histic (A) Hydrogen Sulfi Stratified Layer Organic Bodies 5 cm Mucky Mi Muck Presence 1 cm Muck (A9 Depleted Below Thick Dark Sur Coast Prairie R Sandy Mucky M Sandy Gleyed Sandy Redox (U	of wetland hydrology was (Describe to the depth Matrix Color (moist) 10YR 5/1 10YR 5/1 10Y	A)	ene primary indicator) enent the indicator or Redde (moist) % R 5/8 15 R 4/6 10	Confirm the absence ox Features C C C C S Surface (S8) (LRR S, (S9) (LRR S, T, U) eral (F1) (LRR O) trix (F2) F3) cc (F6) frace (F7) trs (F8) J) F11) (MLRA 151) Masses (F12) (LRR F13) (LRR P, T, U)) (MLRA 151) 18) (MLRA 150A, 11 ain Soils (F19) (MLR	e of indicators.) <u>Loc²</u> <u>M</u> <u>PL</u> <u>2Location: PL</u> T, U) O, P, T) 50B) A 149A)	Texture Silt Loam =Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) 2 cm Muck (A10) Reduced Vertic (I Piedmont Floodpl Anomalous Brigh (MLRA 153B) Red Parent Mate Very Shallow Dar Uter (Explain in ³ Indicators of f hydrology mus problematic.	Remarks matic Hydric Soils ³ : LRR O) (LRR S) E18) (outside MLRA 15 ain Soils (F19) (LRR P, t Loamy Soils (F20) rial (TF2) k Surface (TF12) Remarks) nydrophytic vegetation a t be present, unless dist	5 (0A,B) S, T) nd wetland turbed or
A positive indication of SOIL Profile Description: Depth (inches) 0-16 ''Type: C=Concentral	of wetland hydrology was (Describe to the depth Matrix Color (moist) 10YR 5/1 10YR 5/1 10Y	A) A Provide a conserved (at least observed (at lea	ene primary indicator) enent the indicator or Redd((moist) % R 5/8 15 R 4/6 10	Confirm the absence ox Features C C C C C C C C C C C C C C C C C C C	e of indicators.) <u>Loc²</u> <u>M</u> <u>PL</u> <u>2</u> <u>2</u> <u>2</u> <u>2</u> <u>2</u> <u>2</u> <u>2</u> <u>2</u>	Texture Silt Loam =Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) 2 cm Muck (A10) 2 cm Muck (A10) Reduced Vertic (I Piedmont Floodpl Anomalous Brigh (MLRA 153B) Red Parent Mate Very Shallow Dar Uter (Explain in ³ Indicators of f hydrology mus problematic.	Remarks matic Hydric Soils ³ : LRR 0) (LRR S) E18) (outside MLRA 15 ain Soils (F19) (LRR P, t Loamy Soils (F20) rial (TF2) k Surface (TF12) Remarks) nydrophytic vegetation a t be present, unless dist	5 (0A,B) S, T) nd wetland turbed or
A positive indication of SOIL Profile Description: Depth (inches) 0-16 ''Type: C=Concentral Hydric Soils Indicat Histosol (A1) Histic Epipedor Black Histic (A) Hydrogen Sulfi Stratified Layer Organic Bodies 5 cm Mucky Mi Muck Presence 1 cm Muck (A9 Depleted Below Thick Dark Sur Coast Prairie R Sandy Mucky M Sandy Gleyed Sandy Redox (Stripped Matrix Dark Surface (5)	of wetland hydrology was (Describe to the depth Matrix Color (moist) 10YR 5/1 10YR 5/1 10Y	A) A A A A A A A A A A A A A A A A A A	ene primary indicator) enent the indicator or Redde (moist) % R 5/8 15 R 4/6 10	Confirm the absence ox Features C C C C C C C C C C C C C C C C C C C	e of indicators.) <u>Loc²</u> <u>M</u> <u>PL</u> <u>2</u> Location: PL T, U) T, U) 50B) A 149A) MLRA 149A, 153C,	Texture Silt Loam =Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) 2 cm Muck (A10) 2 cm Muck (A10) Reduced Vertic (I Piedmont Floodpl Anomalous Brigh (MLRA 153B) Red Parent Mate Very Shallow Dar Very Shallow Dar Other (Explain in ³ Indicators of f hydrology mus problematic.	Remarks Remark	5 00A,B) S, T) nd wetland turbed or
A positive indication of SOIL Profile Description: Depth (inches) 0-16 0-16 0-16 0-16 0-16 0-16 0-16 0-16	of wetland hydrology was (Describe to the depti Matrix Color (moist) 10YR 5/1 10YR 5/1 10Y	A)	ene primary indicator) enent the indicator or Redde (moist) % R 5/8 15 R 4/6 10	Confirm the absence ox Features C C C C C C C C C C C C C C C C C C C	e of indicators.) <u>Loc²</u> <u>M</u> <u>PL</u> <u>2Location: PL</u> <u>2Location: PL</u> T, U) O, P, T) 50B) A 149A) MLRA 149A, 153C,	Texture Silt Loam =Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) 2 cm Muck (A10) Reduced Vertic (I Piedmont Floodpl Anomalous Brigh (MLRA 153B) Red Parent Mate Very Shallow Dar Other (Explain in ³ Indicators of f hydrology mus problematic.	Remarks Remark	5 00A,B) S, T) nd wetland turbed or
A positive indication of SOIL Profile Description: Depth (inches) 0-16 ''Type: C=Concentral ''Type: C=Concentral Histosol (A1) Glack Histic (A2) Doganic Bodies 5 cm Mucky Mi Coast Prairie R Sandy Mucky M Sandy Gleyed Sandy Mucky M Sandy Gleyed Sandy Mucky I Sandy Gleyed Sandy Mucky I Sandy Gleyed Sandy Mucky I Sandy Gleyed Sandy Redox (I Stripped Matrix Dark Surface (I Restrictive Layer (if Type: Dark Unchor	of wetland hydrology was (Describe to the depti Matrix Color (moist) 10YR 5/1 10YR 5/1 10Y	A)	ene primary indicator) enent the indicator or Redde (moist) % R 5/8 15 R 4/6 10	Confirm the absence ox Features C C C C C C C C C C C C C C C C C C C	e of indicators.) <u>Loc²</u> <u>M</u> <u>PL</u> <u>2Location: PL</u> <u>2Location: PL</u> T, U) O, P, T) S0B) A 149A) MLRA 149A, 153C,	Texture Silt Loam Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) Reduced Vertic (I Piedmont Floodpl Anomalous Brigh (MLRA 153B) Red Parent Mate Very Shallow Dar Other (Explain in Very Shallow Dar Other (Explain in 3 Indicators of f hydrology mus problematic. 153D)	Remarks Attic Hydric Soils ³ : LRR 0) (LRR S) E18) (outside MLRA 15 ain Soils (F19) (LRR P, t Loamy Soils (F20) rial (TF2) k Surface (TF12) Remarks) nydrophytic vegetation a t be present, unless dist	5 00A,B) S, T) nd wetland turbed or
A positive indication of SOIL Profile Description: Depth (inches) 0-16 0-16 0-16 0-16 0-16 0-16 0-16 0-16	of wetland hydrology was (Describe to the depti Matrix Color (moist) 10YR 5/1 10YR 5/1 	observed (at least h needed to docum <u>% Color 75 10Y1 1</u>	ene primary indicator) enent the indicator or Redde (moist) % R 5/8 15 R 4/6 10	Confirm the absence ox Features C C C C C C C C C C C C C C C C C C C	e of indicators.) <u>Loc²</u> <u>M</u> <u>PL</u> <u>2Location: PL</u> <u>2Location: PL</u> T, U) O, P, T) S0B) A 149A) MLRA 149A, 153C, Hyd	Texture Silt Loam =Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) 2 cm Muck (A10) 2 cm Muck (A10) Reduced Vertic (I Piedmont Floodpl Anomalous Brigh (MLRA 153B) Red Parent Mate Very Shallow Dar Other (Explain in Other (Explain in 3 ¹ Indicators of f hydrology mus problematic.	Remarks Remark	5 00A,B) S, T) nd wetland turbed or
A positive indication of SOIL Profile Description: Depth (inches) 0-16 0-16 0-16 0-16 0-16 0-16 0-16 0-16	of wetland hydrology was (Describe to the depti Matrix Color (moist) 10YR 5/1 10YR 5/1 	A)	ent the indicator or Redd (moist) % 3 5/8 15 3 4/6 10 	Confirm the absence ox Features C C C C C C C C C C C C C C C C C C C	e of indicators.) <u>Loc²</u> <u>M</u> <u>PL</u> <u>2Location: PL</u> <u>2Location: PL</u> T, U) O, P, T) SOB) A 149A) MLRA 149A, 153C, Hyd	Texture Silt Loam =Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) 2 cm Muck (A10) Reduced Vertic (I Piedmont Floodpl Anomalous Brigh (MLRA 153B) Red Parent Mate Very Shallow Dar Other (Explain in ³ Indicators of f hydrology mus problematic. 153D) tric Soil Present? Yes	Remarks Remark	5 60A,B) S, T) nd wetland turbed or

	Absolute %	Dominant	Indicator		
	cover	Species	Status	Dominance Test worksheet:	
ree Stratum (Plot size: 30 ft.)				Number of Dominant Species	
. None Observed				That Are OBL, FACW, or FAC: 2	(A)
				Total Number of Dominant	
				Species Across All Strata: 2	(B)
i				Percent of Dominant Species	
		= Total Cover		That Are OBL, FACW, or FAC: 100%	(A/B)
50% of total cove	r:	20% of total cover:			
				Prevalence Index Worksheet:	
apling <u>Stratum</u> (Plot size: <u>30</u> ft.)					
None Observed				Total % Cover of: Multi	ply by:
·				OBL species 10 x 1 =	10
				FACW species 10 x 2 =	20
·				FAC species 25 x 3 =	75
·				FACU species <u>2</u> x 4 =	8
·				UPL species 0 x 5 =	0
		= Total Cover		Column Totals: 47 (A)	113
50% of total cove	r:	20% of total cover:			
hrub Stratum (Plot size: <u>30 ft.</u>)				Prevalence Index = B/A = 2	.40
None Observed				Hydrophytic Vagatation Indicators	
		<u> </u>	<u> </u>	1 Papid Tast for Hydrophytic Vagatation	
				2 Deminance Test is >50%	
*		<u> </u>	<u> </u>	\mathbf{X} 2 - Dominance rest is < 3.0 ¹	
		<u> </u>	<u> </u>	Problematic Hydrophytic Vegetation ¹ (Explain)	
		= Total Cover			
50% of total cove	r	20% of total cover:		¹ Indicators of hydric soil and wetland hydrology must	
		2010 01 10101 00001.		be present, unless disturbed or problematic.	
lerb Stratum (Plot size: 30 ft.)					
. Chasmanthium sessiliflorum	20	Yes	FAC	Definitions of Five Vegetation Strata:	
Boehmeria cylindrica	10	Yes	FACW		
. Justicia ovata	5	No	OBL	Tree - Woody plants, excluding woody vines,	
. Rhynchospora corniculata	5	No	OBL	approximately 20 ft (6m) or more in height and 3 in.	
. Triadica sebifera	5	No	FAC	(7.6 cm) or larger in diameter at breast height (DBH).	
. Triadica sebifera . Callicarpa americana	5 2	No No	FAC FACU	(7.6 cm) or larger in diameter at breast height (DBH).	
. Triadica sebifera . Callicarpa americana	5 2	No No	FAC FACU	(7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines,	
. Triadica sebifera . Callicarpa americana	<u>5</u> 2	<u>No</u> No	FAC FACU	(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	
. Triadica sebifera . Callicarpa americana	<u>5</u> 2	<u>No</u> No	FAC FACU	(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.	
. Triadica sebifera . Callicarpa americana	5 2 	<u>No</u> No	FAC FACU	(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.	
 Triadica sebifera Callicarpa americana 	 	<u>No</u> <u>No</u>	FAC FACU	 (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, 	
 Triadica sebifera Callicarpa americana 	5 2 	 	FAC FACU	 (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. 	
Triadica sebifera Callicarpa americana Callicarpa americana Construction Construction Construction Construction S0% of total cove	5 2 	No No = Total Cover 20% of total cover:	FAC FACU 9.4	 (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 	
5. Triadica sebifera 6. Callicarpa americana 7 6 7 7 7 7 7 7 70% of total cove 700dy Vine Stratum (Plot size:30 ft)	5 2 	No No Total Cover 20% of total cover:		 (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 	
	5 2 	No No Total Cover 20% of total cover:		 (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 	
5. Triadica sebifera 5. Callicarpa americana 7. 8. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9.	5 2 	 		 (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. 	
5. Triadica sebifera 5. Callicarpa americana 7. 8. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9.	5 2 	 		 (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. 	
5. Triadica sebifera 5. Callicarpa americana 7. 8. 9. 9. 9. 9. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	 	 		 (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. 	
<u>Triadica sebifera Callicarpa americana Callicarpa americana </u>	 	 		 (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. 	
5. Triadica sebifera 3. Callicarpa americana 7. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 50% of total cove 50% of total cove Voody Vine Stratum (Plot size: 30 1. None Observed 2. 3. 4. 5.	 	 		 (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 	
5. Triadica sebifera 5. Callicarpa americana 7. 8. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 10. 11. None Observed 12. 13. 14. 15. 15. 16. 17. 18. 19. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.		No No Total Cover 20% of total cover: = Total Cover 20% of total cover:		 (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 	
Triadica sebifera Callicarpa americana Callicarpa americana Solv of total cove	5 2 	No No No = Total Cover 20% of total cover: 20% of total cover: 20% of total cover:		 (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 X No 	_





Project/Site:	Bob A	nthony Park	way Relocation	ı	Co	unty:	Madiso	on	Sampling [Date:	July 11, 2023
Applicant/Owner:		Mississip	pi Department	of Transport	ation	Stat	te:	Mississippi	Sample Po	oint:	DP5
Investigator(s):	Savannah R. M	orales	and	Bettie Shoe	maker	Section, Townshi	p, Range:		S	34, T7N, R2E	
Landform (hillslope, terra	ce, etc.):		Plane			Local relief (con	cave, convex,	, none): L	inear Slope	Slope (%):	0-5
Subregion (LRR or MLRA	A):		LRR P, MLR	A 134		_ Lat:32	.40788	Long:	-90.08301	Datum:	NAD 83
Are climatic / bydrologic /	conditions on the site	typical for t	bis time of vear	-2	oun association	Ves / No)	Ves	NWI Cl	assilication:	e)	N/A
Are Vegetation	No .Soil	No .	or Hvdroloav	No	significantly	disturbed?	Are "Norma	al Circumstances"	present?	Yes	X No
Are Vegetation	No ,Soil	No ,o	or Hydrology	No	naturally pr	oblematic?		(If needed, expla	in any answer	s in Remarks.)	
SUMMARY OF FI	NDINGS - Atta	ch site m	nap showir	ng sampl	ing point l	ocations, tra	insects, in	mportant feat	ures, etc.		
Hydrophytic Vegetation	Present?	Yes		No	х						
Hydric Soil Present?		Yes		No	х	Is the Sample	d Area				
Wetland Hydrology Pres	sent?	Yes		No	x	within a Wetla	ind?	Yes		No	X
Remarks: This point was dete	ermined not to be wit	hin a wetlan	d due to the lac	ck of all three	e wetland criter	ia.					
		init a frontain									
Wetland hydrolog	v Indicators:							Casardan			
Primary Indicators	(minimum of one is a	equired: che	eck all that ann	v)				Secondary	rface Soil Crac	nimum of two rec sks (B6)	juirea)
Surface Wa	ater (A1)	equired, one		Aquatic	Fauna (B13)			Ou Sp	arsely Vegetat	ed Concave Sur	ace (B8)
High Water	Table (A2)			Marl De	posits (B15) (L	RR U)		Dr	ainage Pattern	s (B10)	、
Saturation	(A3)			Hydrog	en Sulfide Odor	(C1)		Mo	oss Trim Lines	(B16)	
Water Mark	ks (B1)			Oxidize	d Rhizospheres	s on Living Roots((C3)	Dr	y-Season Wate	er Table (C2)	
Sediment D	Deposits (B2)			Presen	ce of Reduced	Iron (C4)		Cr	ayfish Burrows	(C8)	
Drift Depos	sits (B3)		<u> </u>	Recent	Iron Reduction	in Tilled Soils (C6	5)	Sa	turation Visible	e on Aerial Image	ry (C9)
Algal Mat o	r Crust (B4)			Thin Mu Other (I	ick Surface (C/	') arko)		Ge	eomorphic Posi	(D2)	
Inundation	Visible on Aerial Ima	gery (B7)				arks)		Sh	C-Neutral Test	(D3) t (D5)	
Water-Stair	ned Leaves (B9)	3						Sp	hagnum moss	(D8) (LRR T, U)	
Field Observations:	. ,								-		
Surface Water Present	? Yes		No X	[Depth (inches):	N/A	Wetland H	Hvdrology Preser	t?	Yes	No X
Water Table Present?	Yes		No X	[Depth (inches):	>16		,		· · ·	
Saturation Present?	Yes		No X	[Depth (inches):	>16					
Describe Recorded	d Data (stream gaug	e, monitoring	g well, aerial ph	iotos, previo	us inspections)	, if available:					
Remarks:											
No positive indicati	ion of wetland hydro	ogy was obs	served.								
SOIL											
Profile Descriptio	n: (Describe to the	e depth nee	ded to docum	ent the indi	cator or confi	rm the absence of	of indicators.	.)			
Depth	Matrix	-			Redox Fea	atures		-			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textu	ure	Re	emarks
0-16	10YR 4/3	85	10YF	R 5/2	10	D	М	Silt Lo	am		
·			10YF	R 3/6	5	C	M		<u> </u>		
									·		
									<u> </u>		
¹ Type: C=Concent	tration, D=Depletion,	RM=Reduc	ed Matrix, MS=	Masked Sa	nd Grains.		² Location:	PL=Pore Lining, N	I=Matrix.		
Hydric Soils Indic	ators: (Applicable	to all LRRs	, unless other	wise noted	.)			Indicators	s for Problema	atic Hydric Soils	3 ³ :
Histosol (A1)			Polyvalu	e Below Surfac	e (S8) (LRR S, T ,	U)	1 cr	n Muck (A9) (L	.RR O)	
Histic Epipeo	don (A2)			Thin Dar	k Surface (S9)	(LRR S, T, U)		2 cr	n Muck (A10) ((LRR S)	
Black Histic	(A3)			Loamy N	lucky Mineral (F	=1) (LRR O)		Red	luced Vertic (F	18) (outside ML	RA 150A,B)
Hydrogen St	ulfide (A4)			Loamy G	leyed Matrix (F	2)		Piec	imont Floodpla	ain Soils (F19) (L Learni Seile (E2)	RR P, S, T)
Organic Bod	lies (A5)	IN		Depieted	ark Surface (Ef	3)		Ano	PA 153B)	Loarny Solis (F2))
5 cm Mucky	Mineral (A7) (LRR F	с, Р. Т. U)		Depleted	Dark Surface	(F7)		Red	Parent Materi	al (TF2)	
Muck Preser	nce (A8) (LRR U)			Redox D	epressions (F8)		Ven	y Shallow Dark	Surface (TF12)	
1 cm Muck (A9) (LRR P, T)			Marl (F1	0) (LRR U)			Oth	er (Explain in F	Remarks)	
Depleted Be	low Dark Surface (A	11)		Depleted	Ochric (F11) (MLRA 151)		3			
Thick Dark S	Surface (A12)			Iron-Man	ganese Masse	s (F12) (LRR O,	Ρ, Τ)	'n	indicators of hy iydrology must	varophytic vegeta be present, unle	ation and wetland ss disturbed or
Coast Prairie Sandy Muck	e Redox (A16) (MLR v Mineral (S1) (I PP	A 150A)		Delta Oc	bufface (F13) (L	-RR P, I, U)		p	roblematic.	·	
Sandy Middk	ed Matrix (S4)	5, 5)		Reduced	Vertic (F18) (N		3)				
Sandy Redo	x (S5)			Piedmon	t Floodplain So	ils (F19) (MLRA 1	149A)				
Stripped Mat	trix (S6)		_	Anomalo	us Bright Loam	y Soils (F20) (ML	RA 149A, 153	3C, 153D)			
Dark Surface	e (S7) (LRR P, S, T ,	U)									
Restrictive Layer	(if observed):										
Туре:											
Depth (incl	hes):						1	Hydric Soil Prese	nt? Yes	No	<u> </u>
Remarks:											
No positive indicati	ion of hydric soils wa	s observed.									

	es of plants.				Sampling Point:		DP5
	Absolute % cover	Dominant Species	Indicator Status	Dominance Test work	ksheet:		
Tree Stratum (Plot size: 30 ft.)				Number of Dominant S	pecies		
1. Quercus stellata	20	Yes	UPL	That Are OBL, FACW,	or FAC:	3	(A)
2. Pinus glabra	15	Yes	FACW				
3. Carya glabra	10	No	FACU	Total Number of Domin	ant		
4. Pinus echinata	10	No	UPL	Species Across All Stra	ata:	e	; (B)
5. Juniperus virginiana	5	No	FACU				
6. Ostrya virginiana	5	No	FACU	Percent of Dominant Sp	pecies		
	65=	Total Cover		That Are OBL, FACW,	or FAC:	50	<u>%</u> (A/B
50% of total cover	32.5	20% of total cover:	13				
				Prevalence Index Wor	rksheet:		
Sapling Stratum (Plot size: <u>30 ft.</u>)	10		EAGU	T (10)	o (N. 111 1
1. Carya giabra	10	Yes	FACU	I otal %	Cover of:	·	
2. Ostrya virginiana	5	Yes	FACU	OBL species	1	x 1 =	1
3. Acer rubrum	3	No	FAC	FACW species	18	x 2 =	36
. <u>Celtis laevigata</u>	3	No	FACW	FAC species	54	x 3 =	162
				FACU species	35	x 4 =	140
ð				UPL species	30	x 5 =	150
	21=	Total Cover		Column Totals:	138	(A)	489
50% of total cover	r: <u>10.5</u>	20% of total cover:	4.2				
<u>Shrub Stratum</u> (Plot size: <u>30 ft.</u>)				Prevalence	Index = B/A =		3.54
				Hydrophytic Vegetatio	on Indicators:		
3.				1 - Rapid Te	est for Hydrophytic	Vegetation	
4				2 - Dominar	nce Test is >50%		
5				3 - Prevaler	the index is $\leq 3.0^1$		
6				Problematic	Hydrophytic Vege	tation ¹ (Expla	in)
		Total Covor			ingalopingao rogo	auon (Expla	,
50% of total cover		20% of total covor:		¹ Indicators of hydric s	oil and wetland by	trology must	
		2070 01 10101 00001.		he present unless dist	urbed or problemat	ic	
Jorb Stratum (Plot size: 20 ft)				be present, unless dist	urbed or problemat	ic.	
1 Chasmanthium sessiliflorum	50	Vec	FAC	Definitions of Five Ve	actation Strata		
	1	Ne		Definitions of the ve	getation otrata.		
		INU	OBL	Tree Marsharts			
3				Tree - woody plants, e		nes,	
+	·			approximately 20 π (6m	i) or more in neight	and 3 in.	
)				(7.6 cm) or larger in dia	imeter at breast he	ight (DBH).	
).							
7				Sapling - Woody plants	s, excluding woody	vines,	
<u></u>		<u> </u>		Sapling - Woody plants approximately 20 ft (6 r	s, excluding woody n) or more in heigh	vines, t and less	
7 3				Sapling - Woody plants approximately 20 ft (6 r than 3 in, (7.6 cm) DBH	s, excluding woody n) or more in heigh I.	vines, t and less	
7 3 0				Sapling - Woody plants approximately 20 ft (6 r than 3 in. (7.6 cm) DBH	s, excluding woody n) or more in heigh I.	vines, t and less	
7 3 9				Sapling - Woody plant approximately 20 ft (6 r than 3 in. (7.6 cm) DBH	s, excluding woody n) or more in heigh I.	vines, t and less	
7 3 9 0				Sapling - Woody plant approximately 20 ft (6 r than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 ft	s, excluding woody n) or more in heigh l. excluding woody v	vines, t and less ines,	
7 3 9 0 1		Total Cover		Sapling - Woody plant: approximately 20 ft (6 r than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 ft	s, excluding woody n) or more in heigh ł. excluding woody v t (1 to 6 m) in heigh	vines, t and less ines, it.	
7	= = = 	Total Cover 20% of total cover:	10.2	Sapling - Woody plant: approximately 20 ft (6 r than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 ft	s, excluding woody n) or more in heigh I. excluding woody v t (1 to 6 m) in heigh	vines, t and less ines, it.	
7	= 	Total Cover 20% of total cover:	10.2	Sapling - Woody plant approximately 20 ft (6 r than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous i	s, excluding woody n) or more in heigh I. excluding woody v t (1 to 6 m) in heigh (non-woody) plants	vines, t and less ines, it. , including	
r	 	Total Cover 20% of total cover:	10.2	Sapling - Woody plant approximately 20 ft (6 r than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous i herbaceous vines, rege	s, excluding woody n) or more in heigh t. excluding woody v t (1 to 6 m) in heigh (non-woody) plants ardless of size, <u>and</u>	vines, t and less ines, it. , including woody	
r	 	Total Cover 20% of total cover: Yes	10.2 FAC	Sapling - Woody plant approximately 20 ft (6 r than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous (herbaceous vines, rega plants, except woody v	s, excluding woody n) or more in heigh ł. excluding woody w t (1 to 6 m) in heigh (non-woody) plants ardless of size, <u>and</u> ines, less than app	vines, t and less ines, it. , including woody roximately	
r	= = 	Total Cover 20% of total cover: Yes	10.2 FAC	Sapling - Woody plant approximately 20 ft (6 r than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous (herbaceous vines, rega plants, except woody v 2 ft (1 m) in height.	s, excluding woody n) or more in heigh ł. excluding woody w t (1 to 6 m) in heigh (non-woody) plants ardless of size, <u>and</u> ines, less than app	vines, t and less ines, it. , including woody roximately	
r	 	Total Cover 20% of total cover: Yes	10.2 FAC	Sapling - Woody plant: approximately 20 ft (6 r than 3 in. (7.6 cm) DBF Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous i herbaceous vines, rega plants, except woody v 2 ft (1 m) in height.	s, excluding woody n) or more in heigh 4. excluding woody v t (1 to 6 m) in heigh (non-woody) plants ardless of size, <u>and</u> ines, less than app	vines, t and less ines, it. , including woody roximately	
	 	Total Cover 20% of total cover: Yes	10.2 FAC	Sapling - Woody plant: approximately 20 ft (6 r than 3 in. (7.6 cm) DBF Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous i herbaceous vines, rega plants, except woody v 2 ft (1 m) in height. Woody vine - All wood	s, excluding woody n) or more in heigh f. excluding woody v t (1 to 6 m) in heigh (non-woody) plants ardless of size, <u>and</u> ines, less than app y vines, regardless	vines, t and less ines, it. , including woody roximately ; of height.	
7	= = 	Total Cover 20% of total cover: Yes	10.2 FAC	Sapling - Woody plant: approximately 20 ft (6 r than 3 in. (7.6 cm) DBF Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous i herbaceous vines, rega plants, except woody v 2 ft (1 m) in height. Woody vine - All wood	s, excluding woody n) or more in heigh f. excluding woody v t (1 to 6 m) in heigh (non-woody) plants ardless of size, <u>and</u> ines, less than app y vines, regardless	vines, t and less ines, it. , including woody roximately of height.	
7	 	Total Cover	10.2 FAC	Sapling - Woody plant: approximately 20 ft (6 r than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous i herbaceous vines, rega plants, except woody v 2 ft (1 m) in height. Woody vine - All wood Hydrophytic	s, excluding woody n) or more in heigh f. excluding woody v t (1 to 6 m) in heigh (non-woody) plants ardless of size, <u>and</u> ines, less than app y vines, regardless	vines, t and less ines, it. , including woody roximately ; of height.	
7.	 	Total Cover Yes Total Cover 20% of total cover:	10.2 FAC	Sapling - Woody plant: approximately 20 ft (6 r than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous vi herbaceous vines, regg plants, except woody v 2 ft (1 m) in height. Woody vine - All wood Hydrophytic Vegetation	s, excluding woody n) or more in heigh 4. excluding woody v t (1 to 6 m) in heigh (non-woody) plants ardless of size, <u>and</u> ines, less than app y vines, regardless	vines, t and less ines, it. , including woody roximately of height.	
7	 	Total Cover Yes Total Cover 20% of total cover: 20% of total cover: 20% of total cover:	10.2 FAC	Sapling - Woody plant: approximately 20 ft (6 r than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous 4 herbaceous vines, rega plants, except woody v 2 ft (1 m) in height. Woody vine - All wood Hydrophytic Vegetation Present?	s, excluding woody n) or more in heigh t. excluding woody v t (1 to 6 m) in heigh (non-woody) plants ardless of size, <u>and</u> ines, less than app y vines, regardless Yes	vines, t and less ines, at. , including woody roximately of height.	

No positive indication of hydrophytic vegetation was observed (≥50% of dominant species indexed as FAC- or drier).



Site: Bob Anthony Parkway Relocation Location: SW 240 Jackson, Madison 1.1.4.1 County, MS © 160°SE (T) • 32.4079, -90.083002 ±3 m ▲ 58 m Photo No: 10 Date: 07/11/2023 **Description:** Wetland determination Data Point 5 looking south-southeast. Bob Anthony Parkway 1-2023 12:43:11 PN

	Bob Antho	ony Parkway Relocati	on	Cou	inty:	Madison	Sampling	Date:	July 11, 2023
Applicant/Owner:	Ν	/lississippi Departmer	nt of Transportati	on	State	e:	Mississippi Sample P	oint:	DP6
Investigator(s):	Savannah R. Moral	es and	Bettie Shoema	ker S	Section, Township,	Range:	5	34, T7N, R2E	
Landform (hillslope, terrace	e, etc.):	Depres	sion		Local relief (conca	ave, convex, none	e): Concave	Slope (%):	0-5
Subregion (LRR or MLRA):	·	LRR P, ML	RA 134	opposition	Lat: 32.4	10715 I	Long: -90.08207	Datum:	NAD 83
Are climatic / hydrologic co	nditions on the site typ	ical for this time of ve	ar?	association (Y	'es / No)	Yes	(if no, explain in Remark	<u> </u>	N/A
Are Vegetation	No .Soil I	or Hydrology	No	significantly	disturbed?	Are "Normal Cire	cumstances" present?	Yes X	K No
Are Vegetation	No ,Soil N	No ,or Hydrology	No	naturally pro	blematic?	(If n	' needed, explain any answei	s in Remarks.)	
SUMMARY OF FINI	DINGS - Attach	site map show	ing samplin	g point lo	ocations, tran	nsects, impo	ortant features, etc.		
Hydrophytic Vegetation Pr	resent?	Yes X	No						
Hydric Soil Present?		Yes X	No		Is the Sampled	Area			
Wetland Hydrology Preser	nt?	Yes X	No		within a Wetlan	Id?	Yes X	No	
Remarks:									
This point was deterr	mined to be within a we	etland due to the pres	ence of all three	wetland crite	ria.				
HYDROLOGY									
Wetland hydrology	Indicators:						Secondary Indicators (m	inimum of two requ	ired)
Primary Indicators (m	ninimum of one is requ	ired; check all that ap	ply)				Surface Soil Cra	cks (B6)	
X Surface Wate	er (A1)	_	Aquatic Fa	auna (B13)			Sparsely Vegeta	ted Concave Surfac	ce (B8)
High Water T	able (A2)	_	Marl Depo	sits (B15) (LF	RR U)		Drainage Patterr	is (B10)	
Saturation (A	3)	-	Hydrogen	Sulfide Odor	(C1)		X Moss Trim Lines	(B16)	
Water Marks	(B1)	_	X Oxidized H	Rhizospheres	on Living Roots(C	(3)	Dry-Season Wat	er Table (C2)	
Drift Deposite	pusits (B∠) s (B3)		Recent Irc	or Reduction i	n Tilled Soils (C6)		Craylish Burrows Saturation Visible	e on Aerial Imagen	(C9)
Algal Mat or (Crust (B4)	-	Thin Muck	Surface (C7))		X Geomorphic Pos	ition (D2)	
Iron Deposits	(B5)	_	Other (Ex	plain in Rema	rks)		Shallow Aquitard	(D3)	
Inundation Vi	sible on Aerial Imagery	/ (B7)					X FAC-Neutral Tes	it (D5)	
X Water-Staine	d Leaves (B9)						Sphagnum moss	(D8) (LRR T, U)	
Field Observations:									
Surface Water Present?	Yes	X No	Dep	oth (inches):	18	Wetland Hydro	ology Present?	Yes X	No
Water Table Present?	Yes	No X	Dep	oth (inches):	>16				
Saturation Present?	Yes	No X	Dep	oth (inches):	>16				
Describe Recorded I	Data (stream gauge, m	ionitoring well, aerial	photos, previous	inspections),	if available:				
Remarks:									
A positive indication	of watland by dralagy y	use absorved (at less	tono primory ind	icotor)					
A positive indication of	or wettand hydrology v	vas observeu (at leas	t one primary inc	icator).					
SOIL									
SOIL Profile Description:	: (Describe to the de	pth needed to docu	ment the indica	tor or confir	n the absence of	f indicators.)			
SOIL Profile Description: Depth	: (Describe to the de Matrix	pth needed to docu	ment the indica	tor or confir Redox Fea	n the absence of	f indicators.)			
SOIL Profile Description: Depth (inches)	: (Describe to the de Matrix Color (moist)	pth needed to docu	ment the indica	tor or confirm Redox Fea	n the absence of tures Type ¹	f indicators.)	Texture	Rem	arks
SOIL Profile Description: Depth (inches) 0-16	: (Describe to the de Matrix Color (moist) 10YR 6/1	with needed to docu % Color 90 10°	ment the indica (moist) /R 6/8	tor or confiri Redox Fea	n the absence of tures Type ¹ C	f indicators.)	 Siit Loam	Rem	narks
Profile Description: Depth	: (Describe to the de Matrix Color (moist) 10YR 6/1	% Colo 90 10°	ment the indica r (moist) /R 6/8	tor or confiri Redox Fea <u>%</u> 10	n the absence of tures Type ¹ C	f indicators.) Loc ² M	Texture Silt Loam	Rem	narks
SOIL Profile Description: Depth (inches) 0-16	: (Describe to the de Matrix Color (moist) 10YR 6/1	with needed to docu % Colo 90 10	ment the indica (moist) /R 6/8	tor or confir Redox Fea <u>%</u> 10	n the absence of tures Type ¹ C	f indicators.)	Texture Silt Loam	Rem	narks
SOIL Profile Description: Depth (inches) 0-16	: (Describe to the de Matrix Color (moist) 10YR 6/1	pth needed to docu % Colo 90 10'	ment the indica	tor or confirm Redox Fea <u>%</u> 10 	n the absence of tures Type ¹ C	Findicators.)	Texture Silt Loam	Rem	arks
SOIL Profile Description: Depth O-16 O-16 O-16 O-16 O-16 O-16 O-16 O-16	: (Describe to the de Matrix Color (moist) 10YR 6/1 	pth needed to docu	ment the indica	tor or confir Redox Fea % 10 	n the absence of tures <u>Type¹</u> C	F indicators.)	Texture Silt Loam Pore Lining, M=Matrix.	Rem	narks
SOIL Profile Description: Depth (inches) 0-16 1 Type: C=Concentra Hydric Soils Indicat	: (Describe to the de <u>Matrix</u> <u>Color (moist)</u> 10YR 6/1 ation, D=Depletion, RM tors: (Applicable to a		ment the indica	tor or confir Redox Fea	n the absence of tures Type ¹ C	f indicators.) Loc ² M ² Location: PL=F	Texture Silt Loam Pore Lining, M=Matrix. Indicators for Problem	Rem	arks
SOIL Profile Description: Depth (inches) 0-16 'Type: C=Concentra Hydric Soils Indicat Histosol (A1)	(Describe to the de <u>Matrix</u> Color (moist) 10YR 6/1 	pth needed to docu <u>%</u> Colo 90 10'	r (moist) /R 6/8 3=Masked Sand erwise noted.) Polyvalue E	tor or confir Redox Fea 	n the absence of tures <u>Type¹</u> C (S8) (LRR S, T, U	f indicators.) Loc ² M ² Location: PL=F	Texture Silt Loam Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I	Rem Rem atic Hydric Soils ³ :	narks
SOIL Profile Description: Depth (inches) 0-16 ' 'Type: C=Concentra Hydric Soils Indicat Histosol (A1) Histo Epipedo Refer Listin (A) Refer L	: (Describe to the de Matrix Color (moist) 10YR 6/1 tition, D=Depletion, RM tors: (Applicable to a n (A2)	pth needed to docu <u>%</u> Colo <u>90</u> 10'	ment the indica (moist) (R 6/8	tor or confirm Redox Fea 	m the absence of <u>Type¹</u> <u>C</u> (S8) (LRR S, T, U) LRR S, T, U)	f indicators.) Loc ² M 2Location: PL=F	Texture Silt Loam Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vartia (6	Rem 	narks
SOIL Profile Description: Depth (inches) 0-16 ' 'Type: C=Concentra Hydric Soils Indicat Histosol (A1) Histo Epipedo Black Histic (A Hydropes Suff	: (Describe to the de Matrix Color (moist) 10YR 6/1 tition, D=Depletion, RM tors: (Applicable to a n (A2) (3)	pth needed to docu <u>%</u> Colo <u>90</u> 10'	ment the indica (moist) (R 6/8 G=Masked Sand erwise noted.) Polyvalue E Thin Dark S Loamy Muc Loamy Gla	tor or confirm Redox Fea <u>%</u> 10 Grains. Below Surface Surface (S9) (I ky Mineral (F wd Matrix (E2)	m the absence of <u>Type¹</u> <u>C</u> (S8) (LRR S, T, U LRR S, T, U) 1) (LRR O)	f indicators.) Loc ² M 2Location: PL=F	Texture Silt Loam Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodbi	Rem atic Hydric Soils ³ : 	A 150A,B)
SOIL Profile Description: Depth (inches) 0-16 ''Type: C=Concentra Hydric Soils Indicat Histics (A1) Histic Epipedo Black Histic (A Histic A	: (Describe to the de Matrix Color (moist) 10YR 6/1 ition, D=Depletion, RM tors: (Applicable to a n (A2) .3) ide (A4) rs (A5)	pth needed to docu <u>%</u> Colo 90 10'	ment the indica (R 6/8 (R 6/8) G=Masked Sand erwise noted.) Polyvalue E Thin Dark S Loamy Muc Loamy Gley X Depleted M	tor or confirm Redox Fea <u>%</u> 10 Grains. Below Surface Surface (S9) (I ky Mineral (F red Matrix (F2)	m the absence of <u>Type¹</u> <u>C</u> (S8) (LRR S, T, U LRR S, T, U) 1) (LRR O) 2)	f indicators.) Loc ² M 2Location: PL=F	Texture Silt Loam Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpi Anomalous Bright	Rem atic Hydric Soils ³ : 	A 150A,B) R P, S, T)
SOIL Profile Description: Depth (inches) 0-16 0-16 1Type: C=Concentra Hydric Soils Indicat Histosol (A1) Histosol (A1) Histo Sulfi Stratified Layel Organic Bodies	(Describe to the de <u>Matrix</u> Color (moist) 10YR 6/1 	pth needed to docu <u>%</u> Colo 90 10'	ment the indica (R 6/8 (R 6/8 G=Masked Sand erwise noted.) Polyvalue E Thin Dark S Loamy Muc Loamy Muc Loamy Gley X Depleted M Redox Dari	tor or confirm Redox Fea <u>%</u> 10 Grains. Grains. Helow Surface Surface (S9) (I ky Mineral (F wed Matrix (F2) atrix (F3) c Surface (F6)	m the absence of <u>Type¹</u> <u>C</u> (S8) (LRR S, T, U) (LRR S, T, U) 1) (LRR O) 2)	f indicators.) Loc ² M 2Location: PL=F	Texture Silt Loam Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpl Anomalous Bright (MLRA 153B)	Atic Hydric Soils ³ : atic Hydric Soils ³ : LRR O) (LRR S) 18) (outside MLR/ ain Soils (F19) (LRF Loamy Soils (F20)	A 150A,B) R P, S, T)
SOIL Profile Description: Depth (inches) 0-16 0-16 1 Type: C=Concentra Hydric Soils Indicat Histosol (A1) Histic Epipedou Black Histic (A Hydrogen Sulfi Stratified Layee Organic Bodies 5 cm Mucky M	: (Describe to the de <u>Matrix</u> <u>Color (moist)</u> 10YR 6/1 10YR 6/1 	pth needed to docu <u>%</u> Colo 90 10' =Reduced Matrix, Ms all LRRs, unless oth U)	ment the indica r (moist) (R 6/8 S=Masked Sand erwise noted.) Polyvalue E Thin Dark S Loamy Muc Loamy Gley X Depleted M Redox Dari Depleted D	tor or confirm Redox Fea <u>%</u> 10 Grains. Grains. Helow Surface Surface (S9) (I ky Mineral (F wd Matrix (F2) atrix (F3) C Surface (F6) ark Surface (F6)	m the absence of <u>Type¹</u> <u>C</u> (S8) (LRR S, T, L LRR S, T, U) 1) (LRR O) 2) 	f indicators.) Loc ² M Zocation: PL=F	Texture Silt Loam Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A1)) Reduced Vertic (F Piedmont Floodpl Anomalous Bright (MLRA 153B) Red Parent Mater	Rem atic Hydric Soils ³ : 	A 150A,B) R P, S, T)
SOIL Profile Description: Depth (inches) 0-16 0-16 0-16 0-16 0-16 0-16 0-16 0-16	: (Describe to the de <u>Matrix</u> <u>Color (moist)</u> 10YR 6/1 <u>10YR 6/1</u> <u>ation, D=Depletion, RM</u> tors: (Applicable to a n (A2) 3) ide (A4) rs (A5) s (A6) (LRR P, T, U) lineral (A7) (LRR P, T, e (A8) (LRR U)	pth needed to docu	ment the indica r (moist) (R 6/8 S=Masked Sand erwise noted.) Polyvalue E Thin Dark S Loamy Muc Loamy Gley X Depleted M Redox Dari Depleted D Redox Dep	tor or confirm Redox Fea <u>%</u> 10 Grains. Grains. Helow Surface Surface (S9) (I ky Mineral (F ved Matrix (F2) atrix (F3) surface (F6) ark Surface (F8)	m the absence of <u>Type¹</u> <u>C</u> (S8) (LRR S, T, L LRR S, T, U) 1) (LRR O) 2) 	f indicators.) Loc ² M Zocation: PL=F	Texture Silt Loam Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A1)) Reduced Vertic (F Piedmont Floodpl Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Darl	Rem atic Hydric Soils ³ : atic Hydric Soils ³ : (LRR S) (LRR S)	A 150A,B) R P, S, T)
SOIL Profile Description: Depth (inches) 0-16 0-16 0-16 0-16 0-16 0-16 0-16 0-16	: (Describe to the de <u>Matrix</u> <u>Color (moist)</u> 10YR 6/1 <u>10YR 6/1</u> <u>ation, D=Depletion, RM</u> tors: (Applicable to a n (A2) 3) ide (A4) rs (A5) s (A6) (LRR P, T, U) lineral (A7) (LRR P, T, e (A8) (LRR U) a) (LRR P, T)	pth needed to docu	ment the indica (R 6/8 (R 6/8) S=Masked Sand erwise noted.) Polyvalue E Thin Dark S Loamy Muc Loamy Muc Loamy Gley X Depleted M Redox Darl Depleted D Redox Dep Marl (F10)	tor or confirm Redox Fea % 10 Grains. Grains. Welow Surface (S9) (I ky Mineral (F ved Matrix (F2) (Surface (F6) ark Surface (F8) (LRR U)	m the absence of <u>Type¹</u> <u>C</u> (S8) (LRR S, T, U LRR S, T, U) 1) (LRR O) 2) 	f indicators.) Loc ² M 2Location: PL=F	Texture Silt Loam Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpl Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Darl Other (Explain in	Rem 	A 150A,B) R P, S, T)
SOIL Profile Description: Depth (inches) 0-16	: (Describe to the de <u>Matrix</u> <u>Color (moist)</u> 10YR 6/1 <u>10YR 6/1</u> <u>ation, D=Depletion, RM</u> tors: (Applicable to a n (A2) 3) ide (A4) rs (A5) s (A6) (LRR P, T, U) lineral (A7) (LRR P, T, e (A8) (LRR U) a) (LRR P, T) w Dark Surface (A11)	pth needed to docu	ment the indica (moist) (R 6/8 S=Masked Sand erwise noted.) Polyvalue E Thin Dark S Loamy Muc Loamy Muc Loamy Gley X Depleted M Redox Darl Depleted D Redox Dep Marl (F10) Depleted O	tor or confirm Redox Fea % 10 Grains. Grains. Welow Surface (S9) (I ky Mineral (F ved Matrix (F2) (ky Mineral (F) (ky Mineral (F)	m the absence of <u>Type¹</u> <u>C</u> (S8) (LRR S, T, U LRR S, T, U) 1) (LRR O) 2) 	f indicators.) Loc ² M 2Location: PL=F	Texture Silt Loam Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpl Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Darl Other (Explain in I	Rem atic Hydric Soils ³ : atic Hydric Soils ³ : atic Hydric Soils ³ : atic Soils (F19) (LRF atic Soils (F19) (LRF Loamy Soils (F20) atic (TF12) atic (TF1	A 150A,B) R P, S, T)
SOIL Profile Description: Depth (inches) 0-16 ' 'Type: C=Concentra Hydric Soils Indicat Histosol (A1) Histic Epipedo Black Histic (A Black Histic (A) Hydrogen Sulfi Stratified Layee 5 cm Mucky M Muck Presence 1 cm Muck (A6 Depleted Below Thick Dark Sur	: (Describe to the de <u>Matrix</u> <u>Color (moist)</u> 10YR 6/1 10YR 6/1 ation, D=Depletion, RM tors: (Applicable to a ation, D	pth needed to docu <u>%</u> <u>Colo</u> <u>90</u> <u>10</u> <u></u>	ment the indica (moist) (R 6/8) S=Masked Sand erwise noted.) Polyvalue E Thin Dark S Loamy Muc Loamy Muc Loamy Gley X Depleted M Redox Dari Depleted D Redox Dep Marl (F10) Depleted N Inon-Manga	tor or confirm Redox Fea <u>%</u> 10 Grains. Grains. Below Surface Surface (S9) (I ky Mineral (F red Matrix (F2) atrix (F3) s Surface (F6) ark Surface (F6) ark Surface (F6) chric (F11) (I nese Masses for (F12) (1)	n the absence of <u>Type</u> ¹ <u>C</u> (S8) (LRR S, T, L (S8) (LRR S, T, U) 1) (LRR O) 2) (F12) (LRR O, P PB P T U)	F indicators.)	Texture Silt Loam Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpl Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Darl Other (Explain in ³ Indicators of h hydrology mus	Rem atic Hydric Soils ³ : atic Hydric Soils ³ : IRR O) (LRR S) (IRR S) (IRI Soils (F19) (LRF Loamy Soils (F20) ial (TF2) (Surface (TF12) Remarks) ydrophytic vegetatii t be present, unless	A 150A,B) R P, S, T)
SOIL Profile Description: Depth (inches) 0-16 ' 'Type: C=Concentra Hydric Soils Indicat Histosol (A1) Histic Epipedo Black Histic (A Black Histic (A) Hydrogen Sulfi Stratified Layee 5 cm Mucky M Muck Presence 1 cm Muck (A6 Depleted Belov Thick Dark Sur Coast Prairie F Sandy Mucky	: (Describe to the de <u>Matrix</u> <u>Color (moist)</u> 10YR 6/1 <u>10YR 6/1</u> <u>ation, D=Depletion, RM</u> tors: (Applicable to a ation, D=Depletion, RM tors: (Applicable to a n (A2) .3) ide (A4) rs (A5) s (A6) (LRR P, T, U) ineral (A7) (LRR P, T, e (A8) (LRR P, T, e) (A8) (LRR P, T) w Dark Surface (A11) rface (A12) Redox (A16) (MLRA 10) Mineral (S1) (LRR P, 1)	pth needed to docu <u>%</u> <u>Colo</u> <u>90</u> <u>10</u>	ment the indica (moist) (R 6/8) S=Masked Sand envise noted.) Polyvalue E Thin Dark S Loamy Muc Loamy Muc Loamy Gley X Depleted M Redox Darh Depleted D Redox Dep Marl (F10) Depleted A Inon-Mang Umbric Sur Delta Ochri	tor or confirm Redox Fea % 10 10 Grains. G	n the absence of <u>Type</u> ¹ <u>C</u> (S8) (LRR S, T, L LRR S, T, U) 1) (LRR O) 2) (F12) (LRR O, P RR P, T, U) A 151)	f indicators.) Loc ² M ² Location: PL=F J)	Texture Silt Loam Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpl Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Darl Other (Explain in ³ Indicators of h hydrology mus problematic.	Rem atic Hydric Soils ³ : atic Hydric Soils ³ : IRR O) (LRR S) (IRR S) (IRI Soils (F19) (LRI Loamy Soils (F20) ial (TF2) (Surface (TF12) Remarks) ydrophytic vegetatid be present, unless	A 150A,B) R P, S, T) on and wetland disturbed or
SOIL Profile Description: Depth (inches) 0-16 0-16 0-16 0-16 0-16 0-16 0-16 0-16	: (Describe to the de <u>Matrix</u> <u>Color (moist)</u> <u>10YR 6/1</u> <u>10YR 6/1</u> <u>10Y</u>	pth needed to docu <u>_%</u>	ment the indica (moist) (R 6/8) S=Masked Sand erwise noted.) Polyvalue E Thin Dark S Loamy Muc Loamy Muc Loamy Gley X Depleted M Redox Dep Marl (F10) Depleted CD Redox Dep Marl (F10) Depleted CD Iron-Manga Umbric Sur Delta Ochri Reduced V	tor or confirm Redox Fea <u>%</u> 10 10 Grains.	n the absence of <u>Type</u> ¹ <u>C</u> (S8) (LRR S, T, L LRR S, T, U) 1) (LRR O) 2) (F12) (LRR O, P RR P, T, U) A 151) LRA 150A, 150B)	f indicators.) Loc ² M ² Location: PL=F J)	Texture Silt Loam Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpl Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Darl Other (Explain in I ³ Indicators of h hydrology mus problematic.	Rem atic Hydric Soils ³ : ARR O) (LRR S) 118) (outside MLR/ ain Soils (F19) (LRF Loamy Soils (F20) ial (TF2) (Surface (TF12) Remarks) ydrophytic vegetatii be present, unless	A 150A,B) A 150A,B) R P, S, T) on and wetland
SOIL Profile Description: Depth (inches) 0-16 0-16 0-16 0-16 0-16 0-16 0-16 0-16	: (Describe to the de <u>Matrix</u> <u>Color (moist)</u> 10YR 6/1 <u>10YR 6/1</u> <u>10YR </u>	pth needed to docu <u>%</u> Colo <u>90</u> 10'	ment the indica (moist) (R 6/8) S=Masked Sand erwise noted.) Polyvalue E Thin Dark S Loamy Muc Loamy Muc Loamy Muc Loamy Gley X Depleted M Redox Dep Marl (F10) Depleted CD Redox Dep Marl (F10) Depleted Cohri Depleta Ochri Reduced V Piedmont F	tor or confirm Redox Fea <u>%</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u>	m the absence of tures C C (S8) (LRR S, T, L LRR S, T, U) 1) (LRR O) 2) MLRA 151) (F12) (LRR O, P RR P, T, U) A 151) LRA 150A, 150B) s (F19) (MLRA 14	f indicators.) 	Texture Silt Loam Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpl Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Darl Other (Explain in I ³ Indicators of h hydrology mus problematic.	Rem atic Hydric Soils ³ : atic Hydric Soils ³ : IRR O) (LRR S) 118) (outside MLR/ ain Soils (F19) (LRF Loamy Soils (F20) ial (TF2) (Surface (TF12) Remarks) ydrophytic vegetatii t be present, unless	A 150A,B) R P, S, T) on and wetland disturbed or
SOIL Profile Description: Depth (inches) 0-16 0-16 0-16 0-16 0-16 0-16 0-16 0-16	: (Describe to the de <u>Matrix</u> <u>Color (moist)</u> <u>10YR 6/1</u> <u>10YR 6/1</u> <u>10Y</u>	pth needed to docu <u>_%</u>	ment the indica (moist) (R 6/8) S=Masked Sand erwise noted.) Polyvalue E Thin Dark S Loamy Muc Loamy Muc Loamy Muc Loamy Gley X Depleted M Redox Dep Marl (F10) Depleted O Inon-Manga Umbric Sur Delta Ochri Reduced V Piedmont F Anomalous	tor or confirm Redox Fea <u>%</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u>	m the absence of tures Type ¹ C (S8) (LRR S, T, L (S8) (LRR S, T, L LRR S, T, U) 1) (LRR O) 2) MLRA 151) (F12) (LRR O, P RR P, T, U) A 151) LRA 150A, 150B) s (F19) (MLRA 14 r Soils (F20) (MLR	F indicators.)	Texture Silt Loam Silt Loam Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpl Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Darl Other (Explain in I 3 Indicators of h hydrology mus problematic. 53D)	Rem atic Hydric Soils ³ : .RR O) (LRR S) 18) (outside MLR/ ain Soils (F19) (LRF Loamy Soils (F20) ial (TF2) (Surface (TF12) Remarks) ydrophytic vegetatii t be present, unless	A 150A,B) R P, S, T) on and wetland : disturbed or
SOIL Profile Description: Depth (inches) 0-16 ' ' 'Type: C=Concentra Hydric Soils Indicat Histics (A Hydrogen Sulfi Stratified Layer Organic Bodier S cm Mucky M Muck Presence Corganic Bodier S cm Mucky M Muck Presence Cosat Prairie F Sandy Mucky Sandy Gleyed Sandy Redox (Stripped Matrix Dark Surface (: (Describe to the de <u>Matrix</u> <u>Color (moist)</u> <u>10YR 6/1</u> <u>10YR 6/1</u> <u>10Y</u>	pth needed to docu <u>%</u> <u>Colo</u> <u>90</u> <u>10'</u> <u></u>	ment the indica (moist) (R 6/8 S=Masked Sand erwise noted.) Polyvalue E Thin Dark S Loamy Muc Loamy Muc Loamy Muc Loamy Gley X Depleted D Redox Darl Depleted D Redox Dep Marl (F10) Depleted C Inon-Manga Umbric Sur Delta Ochri Reduced V Piedmont F Anomalous	tor or confirm Redox Fea % 10 10 Grains. G	m the absence of tures Type ¹ C (S8) (LRR S, T, L (S8) (LRR S, T, L LRR S, T, U) (I) (LRR O) (F12) (LRR O, P RR P, T, U) A 151) LRA 150A, 150B) s (F19) (MLRA 14 r Soils (F20) (MLR	F indicators.)	Texture Silt Loam Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpl Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Darl Other (Explain in I ³ Indicators of h hydrology mus problematic. 53D)	Rem atic Hydric Soils ³ : .RR O) (LRR S) 18) (outside MLR/ ain Soils (F19) (LRF Loamy Soils (F20) ial (TF2) (s Surface (TF12) Remarks) ydrophytic vegetatii t be present, unless	A 150A,B) R P, S, T) on and wetland disturbed or
SOIL Profile Description: Depth (inches) 0-16 'Type: C=Concentra Hydric Soils Indicat Histics (A Hydric Soils Indicat Histic Epipedo Black Histic (A Hydrogen Sulfi Stratified Layer Organic Bodier 5 cm Mucky M Muck Presence 1 cm Muck (AS Depleted Below Thick Dark Sur Coast Prairie F Sandy Mucky I Sandy Gleyed Sandy Redox (Stripped Matrix Dark Surface (: (Describe to the de <u>Matrix</u> <u>Color (moist)</u> <u>10YR 6/1</u> <u>10YR 6/1</u> <u>10Y</u>	pth needed to docu <u>%</u> Colo <u>90</u> 10'	ment the indica (moist) (R 6/8 S=Masked Sand erwise noted.) Polyvalue E Thin Dark S Loamy Muc Loamy Muc Loamy Gley X Depleted D Redox Darl Depleted D Redox Dep Marl (F10) Depleted O Iron-Manga Umbric Sur Delta Ochri Reduced V Piedmont F Anomalous	tor or confirm Redox Fea % 10 10 Grains. Grains. Below Surface Surface (S9) (I ky Mineral (F red Matrix (F2) atrix (F3) c Surface (F6) ark Surface (F6) ark Surface (F6) chric (F11) (M nesse Massess face (F13) (LI c (F17) (MLR ertic (F18) (M loodplain Soil Bright Loamy	m the absence of tures Type ¹ C (S8) (LRR S, T, U (S8) (LRR S, T	f indicators.) Loc ² M ² Location: PL=F J) P, T) N9A) A 149A, 153C, 1:	Texture Silt Loam Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpl Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Darl Other (Explain in I ³ Indicators of h hydrology mus problematic. 53D)	Rem atic Hydric Soils ³ : .RR O) (LRR S) 18) (outside MLR/ ain Soils (F19) (LRF Loamy Soils (F20) ial (TF2) c Surface (TF12) Remarks) ydrophytic vegetatii t be present, unless	A 150A,B) R P, S, T) on and wetland disturbed or
SOIL Profile Description: Depth (inches) 0-16 0-16 0-16 0-16 0-16 0-16 0-16 0-16	: (Describe to the de <u>Matrix</u> <u>Color (moist)</u> <u>10YR 6/1</u> <u>10YR 6/1</u> <u>10Y</u>	pth needed to docu <u>%</u> Colo 90 10'	ment the indica (moist) (R 6/8 S=Masked Sand erwise noted.) Polyvalue E Thin Dark S Loamy Muc Loamy Muc Loamy Gley X Depleted D Redox Darl Depleted D Redox Darl Depleted D Ion-Manga Umbric Sur Delta Ochri Reduced V Piedmont F Anomalous	tor or confirm Redox Fea % 10 	n the absence of tures Type ¹ C (S8) (LRR S, T, U (S8) (LRR S, T	f indicators.) <u>Loc²</u> <u>M</u> <u>2</u> Location: PL=F J) P, T) ISA) A 149A, 153C, 13	Texture Silt Loam Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpl Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Darl Other (Explain in in ³ Indicators of h hydrology mus problematic. 53D)	Rem atic Hydric Soils ³ : atic Hydric Soils ³ : atic Hydric Soils ³ : atic Hydric Soils ³ : (LRR S) (LRR S) (LRR S) (LRF	A 150A,B) R P, S, T) on and wetland disturbed or
SOIL Profile Description: Depth (inches) 0-16 ''Type: C=Concentra ''Type: C=Concentr	: (Describe to the de <u>Matrix</u> <u>Color (moist)</u> <u>10YR 6/1</u> <u>10YR 6/1</u> <u>10Y</u>	pth needed to docu <u>%</u> Colo <u>90</u> 10'	ment the indica (moist) (R 6/8) S=Masked Sand erwise noted.) Polyvalue E Thin Dark S Loamy Muc Loamy Muc Loamy Gley X Depleted M Redox Dari Depleted O Redox Dari Depleted O Iron-Manga Umbric Sur Delta Ochri Reduced V Piedmont F Anomalous	tor or confirm Redox Fea % 10 10 Grains. Grains. Below Surface Surface (S9) (I ky Mineral (F red Matrix (F3) (S Surface (F6) ark Surface (I ressions (F8)) (LRR U) chric (F11) (M nese Masses face (F13) (LI c (F17) (MLR ertic (F18) (M loodplain Soil Bright Loamy	m the absence of <u>Type¹</u> <u>C</u> (S8) (LRR S, T, U (S8) (LRR S, T, U (S8) (LRR S, T, U) 1) (LRR O) 2) MLRA 151) (F12) (LRR O, P RR P, T, U) A 151) LRA 150A, 150B) s (F19) (MLRA 14 · Soils (F20) (MLR	f indicators.)	Texture Silt Loam Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpl Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Darl Other (Explain in in 3 Indicators of h hydrology mus problematic. 53D) ic Soil Present? Yes	Rem atic Hydric Soils ³ : atic Hydric Soils ³ : atic Hydric Soils ³ : atic Hydric Soils ³ : (LRR S) (LRR S) (LRR S) (LRR S) (LRF	A 150A,B) R P, S, T) on and wetland disturbed or
SOIL Profile Description: Depth (inches) 0-16 ''Type: C=Concentra ''Type: C=Concentr	: (Describe to the de <u>Matrix</u> <u>Color (moist)</u> 10YR 6/1 <u>10YR 6/1</u> <u>10YR </u>	pth needed to docu <u>%</u> Colo <u>90</u> 10'	ment the indica r (moist) (R 6/8 G=Masked Sand erwise noted.) Polyvalue E Thin Dark S Loamy Muc Loamy Muc Loamy Gley X Depleted M Redox Dari Depleted O Redox Dep Marl (F10) Depleted O Iron-Manga Umbric Sur Delta Ochri Reduced V Piedmont F Anomalous	tor or confirm Redox Fea <u>%</u> 10 Grains. Helow Surface Surface (S9) (I ky Mineral (F ed Matrix (F2) atrix (F3) c Surface (F6) ark Surface (F6) ark Surface (F6) (LRR U) chric (F11) (M nese Masses face (F13) (Ll c (F17) (MLR ertic (F18) (M loodplain Soil Bright Loamy	m the absence of <u>Type</u> ¹ C C (S8) (LRR S, T, U (S8) (LRR S, T, U) (LRR O, P (S8) (LRR O, P (S8) (S8) (S8) (S8) (S8) (S8) (S8) (S8)	f indicators.) Loc ² M ² Location: PL=F J) P, T) Hydri	Texture Silt Loam Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpl Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Darl Other (Explain in I 3Indicators of h hydrology mus problematic. 53D) ic Soil Present? Yes	Rem atic Hydric Soils ³ : atic Hydric Soils ⁴ : atic Hydric Soils	A 150A,B) R P, S, T)
SOIL Profile Description: Depth (inches) 0-16 0-16 0-16 0-16 0-16 0-16 0-16 0-16	: (Describe to the de <u>Matrix</u> <u>Color (moist)</u> <u>10YR 6/1</u> <u>10YR 6/1</u> <u>ition, D=Depletion, RM</u> tors: (Applicable to a in (A2) (A) ide (A4) rs (A5) s (A6) (LRR P, T, U) ineral (A7) (LRR P, T, U) Additional (A7) (LRR O, S Matrix (S4) (S5) x (S6) (S7) (LRR P, S, T, U) f observed): <u>is</u>): <u>of</u> hydric soil was obse	pth needed to docu <u>%</u> Colo <u>90</u> 10' <u>9</u>	ment the indica r (moist) (R 6/8 S=Masked Sand erwise noted.) Polyvalue E Thin Dark S Loamy Muc Loamy Muc Loamy Gley X Depleted M Redox Dari Depleted O Redox Dep Mari (F10) Depleted O Iron-Manga Umbric Sur Delta Ochri Reduced V Piedmont F Anomalous	tor or confirm Redox Fea <u>%</u> 10 Grains. Helow Surface Surface (S9) (I ky Mineral (F ved Matrix (F2 atrix (F3) Conface (F6) ark Surface (F6) ark Surface (F6) (LRR U) chric (F11) (M nese Masses face (F13) (Ll c (F17) (MLR ertic (F18) (M loodplain Soil Bright Loamy	m the absence of <u>Type¹</u> <u>C</u> (S8) (LRR S, T, L LRR S, T, U) 1) (LRR O) 2) MLRA 151) (F12) (LRR O, P RR P, T, U) A 151) LRA 150A, 150B) s (F19) (MLRA 14 ' Soils (F20) (MLR	f indicators.) Loc ² M ² Location: PL=F J) P, T) Hydri Hydri	Texture Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F) Piedmont Floodpl: Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Darl Other (Explain in Indicators of h hydrology mus problematic. 53D) ic Soil Present? Yes	Rem atic Hydric Soils ³ : atic Hydric Soils ³ : 	A 150A,B) A 150A,B) R P, S, T) on and wetland disturbed or

	Absolute %	Dominant	Indicator	Deminance Test worksheet
	cover	Species	Status	Dominance Test worksneet:
ee Stratum (Plot size: 30 ft.)				Number of Dominant Species
Nyssa aquatica	60	Yes	OBL	That Are OBL, FACW, or FAC: 5 (A
Taxodium distichum	10	No	OBL	
				Total Number of Dominant
	·	·		Species Across All Strata: 5 (E
		·		
				Percent of Dominant Species
50% (1)		= Total Cover		Inat Are OBL, FACW, or FAC: (A
50% of total cove	30	20% of total cover:	14	
poling Stratum (Plot size: 30 ft)				Prevalence Index Worksheet:
Triadica sehifara	25	Vec	FAC	Total % Cover of: Multiply by:
		165	TAU	
				$\frac{122}{122} \times 1 = \frac{122}{122}$
		·		FAC species 25 $x_2 = 75$
				$\frac{1}{23} = \frac{1}{13}$
				$\frac{1}{100} \text{ species} \qquad 0 \qquad x^{5} = 0$
	25	= Total Cover		Column Totals: 167 (A) 237
50% of total cove	er: 12.5	20% of total cover:	5	(i) <u></u>
	···· <u>····</u>			
nrub Stratum (Plot size: 30 ft.)				Prevalence Index = B/A = 1.42
Itea virginica	20	Yes	FACW	
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				X 2 - Dominance Test is >50%
				X 3 - Prevalence Index is $\leq 3.0^1$
		·		Problematic Hydrophytic Vegetation ¹ (Explain)
	20	= Total Cover		
50% of total cove	ər: 10	20% of total cover:	4	¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
erb Stratum (Plot size: 30 ft.)				
Saururus cernuus	30	Yes	OBL	Definitions of Five Vegetation Strata:
Osmunda spectabilis	20	Yes	OBI	
	20	105	002	
Taxodium distichum	2	No	OBL	Tree - Woody plants, excluding woody vines,
Taxodium distichum	2	<u>No</u>	OBL	Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in.
Taxodium distichum	2	No	OBL	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).
Taxodium distichum	2	No	OBL	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).
Taxodium distichum	2	No	OBL	 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,
Taxodium distichum	2	<u>No</u>	OBL	 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
Taxodium distichum	 	<u>No</u>	OBL	 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.
Taxodium distichum	 	<u>No</u>	OBL	 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.
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Taxodium distichum		No	OBL	 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.
Taxodium distichum	 	No	0BL	 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.
Taxodium distichum	2 2 	No No = Total Cover 20% of total cover:	0BL	 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
Taxodium distichum	 	= Total Cover 20% of total cover:	0BL	 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
Taxodium distichum	 	= Total Cover 20% of total cover:	0BL	 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
Taxodium distichum	 	= Total Cover 20% of total cover:	0BL	 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.
Taxodium distichum		= Total Cover 20% of total cover:	0BL	 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.
Taxodium distichum	2 2 	= Total Cover 20% of total cover:	0BL	 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.
. <u>Taxodium distichum</u>	2 2 	= Total Cover 20% of total cover:	0BL	 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.
. <u>Taxodium distichum</u>	2 2 	= Total Cover	0BL	 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
. <u>Taxodium distichum</u>	2 2 	= Total Cover 20% of total cover: 20% of total cover: 20% of total cover:	0BL 0BL 10.4	 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
	2 2 	= Total Cover 20% of total cover: 20% of total cover:	0BL	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 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? YesXNo



Site: Bob Anthony Parkway Relocation

Location: Jackson, Madison County, MS

Photo No: 12

Date: 07/11/2023

Description: Wetland determination Data Point 6 looking west-southwest.



Applications	Project/Site:	Bob Ant	thony Parkway F	Relocation		Cou	inty:	Ма	adison	Sampling	g Date:	July 11, 2023
Non-specify	Applicant/Owner:		Mississippi De	partment of Tra	Insportation		Stat	te:	Missis	sippi Sample	Point:	DP7
Linds in Market, bitsol, dely, and a set of	Investigator(s):	Savannah R. Mor	ales an	d Bettie	Shoemaker	S	Section, Township	p, Range:			S34, T7N, R2E	
<pre>stapping interpreter in the interpreter interpret</pre>	Landform (hillslope, terrace,	etc.):		Plane			Local relief (cond	cave, con	/ex, none):	Convex	Slope (%):	0-5
And a match space of the set of the set of space 2 mark s	Subregion (LRR or MLRA):		LRI	Concillo	Calhaun aaaaai	intion	Lat: 32	.40668	Long:	-90.0818	9 Datum:	NAD 83
New Yorkshow New any Power in the Section III in the Section IIII in the Section III in the Section IIII in the Section IIIII in the Section III	Are climatic / hydrologic conc	litions on the site t	voical for this tin	e of year?	-Calloun associ	auon (Y	(es / No)	Yes	I	o explain in Rema	rks)	FFUIA
Name Version No And Argender Strateging No And Argender Strateging Classical Control SUMMARY OF FINITIONS - Attack all bits maps howing scale controls, transacta, Important factures, etc. No X No No X Market of Difference No X No X No X No X Market of Difference No X No<	Are Vegetation	No ,Soil	No ,or Hy	drology	No signifi	cantly	disturbed?	Are "No	ormal Circumst	ances" present?	Yes	X No
SUMMARY OF FINDINGS - Attach site map howing sampling point locations, transacts, important features, etc. " repreprive years and enterined metry to wear how of the local of all these wears of the local of the local of these wears of the local of local of the local of th	Are Vegetation	No ,Soil	No ,or Hy	drology	No natura	ally pro	blematic?		(If needed	, explain any answ	ers in Remarks.)	
Induction Prevent Yes No X Is the Sampled Acs Water Holdsday Prevent Yes No X Is the Sampled Acs The prevent Yes No X Is the Sampled Acs The prevent Yes No X Is the Sampled Acs The prevent Yes No X Is the Sampled Acs The prevent The prevent of the table of all bits resulted cables in the factor of all bits result cables in the factor of all bits resulted cables in the factor of all bits resulted cables in the factor of all bits result cables	SUMMARY OF FIND	INGS - Attacl	n site map	showing sa	ampling poi	int lo	ocations, tra	insects	, importan	t features, etc).	
Intelligence Via No Itele standard decigo file Matter bytechnic Process Via Via <td< td=""><td>Hydrophytic Vegetation Pre</td><td>sent?</td><td>Yes</td><td>N</td><td>lo X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Hydrophytic Vegetation Pre	sent?	Yes	N	lo X							
Video Control (Control (Contro) (Control (Contro) (Contro) (Contro) (C	Hydric Soil Present?		Yes	N	lo X		Is the Sample	d Area				
Remark: The just we determined int to be within a without due to the lack of all three welfand. WHERE Upfordays indicators: increases of the lack of all three welfand. WHERE Upfordays indicators: increases of the lack of all three welfand. Particle Status (2): Particle Status (2): Status (2): Status (2): Status (2): Data (2): Status (2): Data (2): Particle Status (2): Data (2):	Wetland Hydrology Present	?	Yes	N	lo X		within a Wetla	ind?		Yes	No	x
The process as determed not be within a welland due to the task of all lines welland obtains.	Remarks:											
HVDROLOGY Secondary Michael metal on a required, direk all full apph) Secondary Michael metal on a required, direk all full apph) Secondary Michael metal on a required, direk all full apph) Secondary Michael metal on a required, direk all full apph) Secondary Michael metal on a required, direk all full apph) Secondary Michael metal on a required, direk all full apph) Secondary Michael metal on a required, direk all full apph) Secondary Michael metal on a required, direk all full apph) Secondary Michael metal on a required, direk all full apph) Secondary Michael metal on a required, direk all full apph) Derive Michael metal full apph, direk all full apph) Derive Michael metal full apph, direk all full apph, direk full full full full full full full ful	This point was determi	ned not to be withi	n a wetland due	to the lack of a	all three wetland	criteria	a.					
Weter Secondary Indexedues Partery Indexedues (normum of one required (concur) at the approximation of the secondary Indexedues Surface Side (Case) Surface Side (Case) (B(I) Provide Side (Case) Mail Depacts (SI) Surface Side (Case) Surface Side (Case) Provide Side (Case) Provide (Case) Surface Side (Case) Surface Side (Case) Sufface Side (Case) Provide Side (Case) Surface Side (Case) Surface Side (Case) Wate Table (Case) Provide Side (Case) Surface Side (Case) Surface Side (Case) Mail Mail Case (Case) Provide Side (Case) Sufface Side (Case) Sufface Side (Case) Provide Side Side (Case) Provide Side (Case) Sufface Side (Case) Sufface Side (Case) Mail Mail Case (Case) No X Deptit (nothers) Yet No X Variable Advalue No X Deptit (nothers) Yet No X Variable Advalue No X Deptit (nothers) Yet No X Variable Advalue No X Deptit (nothers) Yet No X	HYDROLOGY											
Primery Volation (minimum dore in required, great all bits apply)	Wetland hydrology In	ndicators:							Sec	condary Indicators (minimum of two re	quired)
 Apathe Fana (81) Apathe Fana (81) Sparativ Operation Generated Concers Surface (80) Sparativ Operating Fallettic (Chi Chi Chi Chi Chi Chi Chi Chi Chi Chi	Primary Indicators (min	nimum of one is rea	quired; check all	that apply)						Surface Soil Cr	acks (B6)	
Image: Project Proj Project Project Project Project Project Pro	Surface Water	(A1)		A	quatic Fauna (B	13)				Sparsely Veget	tated Concave Sur	face (B8)
Water Marks (No)	High Water Tal	ble (A2)		N	/arl Deposits (B'	15) (LF	(C1)			Drainage Patte	rns (B10)	
Profile Solar Exception: Control (Cal) Control (Cal) Profile Solar Indication: Control (Cal) Control (Cal) Sufface Water Present? Yee No X Depth (Inches): Profile Deconstration: Solar Indication: No X Sufface Water Present? Yee No X Depth (Inches): Profile Sufface Water Present? Yee No X Depth (Inches): Profile Sufface Water Present? Yee No X Depth (Inches): Profile Sufface Water Present? Yee No X Depth (Inches): Profile Sufface Water Present? Yee No X Depth (Inches): Profile Sufface Water Present? Yee No X Dephot	Water Marks (F	, 31)			yulogen Sullue	heres	on Living Roots((C3)		Dry-Season W	s (DT0) ater Table (C2)	
Arby More Coast (R) Present from Reduction Titles Solis (Cs) Statutor Vable on Arait Imagery (Cs) Arby More Coast (R) Thim Mack Statuses (C1) Statutor Vable on Arait Imagery (Cs) Breach Mark Coast (R) Thim Mack Statuses (C1) Statutor Vable on Arait Imagery (Cs) Water Table Present? Yes No X Depth (Inches): XA Depth (Inches): Yes Mater Table Present? No X Depth (Inches): Yes Remarks No X Depth (Inches): Yes No X Remarks No Coder (remain) Situator Vables on Arait Imagery (C2) No X Present Recorded Data (Interam gauge, moninterms detanor X Depth (Inches): Ye	Sediment Depo	osits (B2)		C	Presence of Redu	uced Ir	on (C4)	(00)		Cravfish Burrov	ws (C8)	
Age Mut to Crast (B1) Die Muck Surface (C1) Genorophic Produce (C2) In ordborn Vable on Arial Imagery (B7) Other (Esplain in Remarks) FAC-Advantal Tack (D3) Weet-Statewide Lawves (B0) PSP-Produce (C2) Sphagroum moss (D3) (LRR T, U) Field Observation: Surface Value Present? Yes No X Surface Value Present? Yes No X Depth (hches): >146 Surface Value Present? Yes No X Depth (hches): >146 Surface Value Present? Yes No X Depth (hches): >146 Describe Recorded Data (stream gauge, monitoring web, serial photoe, previous respections). If available: Remarks: No X Objective Information Present? Yes No X Depth (hches): Yes No X Objective Information Present? Yes No X Depth (hches): Yes No X Objective Information Present? Yes No X Depth (hches): Yes No X Objective Information Present? Yes No X Depth (hches): To hone (hches)	Drift Deposits (B3)		F	Recent Iron Redu	iction i	n Tilled Soils (C6	5)		Saturation Visil	ole on Aerial Image	ery (C9)
Intro Deposite (B0) Introductor Valide on Availated (D3) Introductor Valide on Availated (D3) Fold Observations: Schargumm moss (D6) (LRR T, U) Schargumm moss (D6) (D6) (LRR T, U)	Algal Mat or Cr	rust (B4)		т	hin Muck Surfac	e (C7))			Geomorphic Po	osition (D2)	
Hundation Visible on Aerial imagery (07) Wet-Stande Lawse (05) Schemannen	Iron Deposits (I	B5)		0	Other (Explain in	Rema	rks)			Shallow Aquita	rd (D3)	
	Inundation Visi	ble on Aerial Image	ery (B7)							FAC-Neutral Te	est (D5)	
Field Description: Use model No X Depth (inches): NA Water Table Present? Yes No X Depth (inches): Yes No X Statutation Present? Yes No X Depth (inches): Yes No X Baskutation Present? Yes No X Depth (inches): Yes No X Baskutation Present? Yes No X Depth (inches): Yes No X Baskutation Present? Yes No X Depth (inches): Yes No X Baskutation Present? Ves No X Depth (inches): Yes No X Baskutation Present Matrix Enclore Faulures Facture Remarks Status Opth Matrix Color (mods) % Type: Loc? Texture Remarks Opth Matrix Matrix Mores - - Status Status Status Status To maker Status Texture Remarks Status <td< td=""><td>Water-Stained</td><td>Leaves (B9)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td> Spnagnum mos</td><td>ss (D8) (LRR 1, U)</td><td></td></td<>	Water-Stained	Leaves (B9)								Spnagnum mos	ss (D8) (LRR 1, U)	
Surface Made Present? Yes No X Depth (inches): Aid Weiland Hydrology Present? Yes No X Suture Table Present? Yes No X Depth (inches): >16 Suture Table Present? Yes No X Depth (inches): >16 Decisition Freeent? Yes No X Depth (inches): >16 Decisition Freeent? Yes No X Depth (inches): >16 Decisition Freeent? Yes No X Depth (inches): >16 Solit Solition of weiland hydrology was observed. Record Features Feature Remarks: Depth Matrix Record Features Texture Remarks 0.2 107K 334 000 None - - Sit Leam - Sit Leam - - Sit Leam - - Sit Leam - - - Sit Leam - - - - - - - -	Field Observations:											
Water Index Predent/ Yes No X Depth (nches): >>16 Describe Recorded Data (stream gauge, monitoring well, senial photos, previous inspections), if available: Index inspections), if available: Remarks: No booline indication of welland hydrology was observed. SOIL Profite Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Provide indication of welland hydrology was observed. Poil: Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Provide Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Provide Description: (Describe to all LRR views observed.) Profite Description: (Describe to all LRRs, unless otherwise noticity) Remarks Stil Learn Stil Learn ''Type: C=Concentration, D=Depletion, RM-Reduced Matrix, MS-Makked Sand Grain. ''Locator: PL-Preve Lining, MeMatrix. Indicators for Problematic Hydric Solis': 'Hydric Solis (RR R)	Surface Water Present?	Yes	No	<u> </u>	Depth (incl	hes):	<u>N/A</u>	Wetlar	nd Hydrology	Present?	Yes	No <u></u>
Construction Constructin Constructin C	Saturation Present?	Yes	No	<u>x</u>	Depth (incl Depth (incl	nes): hes):	>16					
Remarks: No positive indication of welland hydrology was observed. SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)	Describe Recorded Da	ata (stream gauge,	monitoring well.	aerial photos,	previous inspec	tions),	if available:					
Remarks: No patitive indication of wetland hydrology was observed. Softle sectription: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Inchest) Color (moist) % Color (moist) % Texture Remarks 0.22.16 10VR 3/4 100 None		(· ·	,.						
No positive indication of wetland hydrology was observed. Soll Type: Color (moint) % Color (moint) % Type: Loc ² Texture Remarks Query Marking Mark Color (moint) % Color (moint) % Type: Loc ² Sill Loam Sill Loam	Remarks:											
SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Deph Matrix Redox Features 0-2 10YR 3/3 100 None	No positive indication of	of wetland hydrolog	gy was observed	d.								
VPOID Elescription: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features 0.2 10VR 33 100 None	SOIL											
Profile beschiption: (beschiption: (beschiptin: (beschiption: (beschiption: (beschiption: (beschipt	Drofile Description	(Deceribe to the c	lanth noodod t	a daaumant ti	o indicator or a	anfin	n the cheepee a	ofindicat)			
Depth Induct values 0-2 10YR 3/3 100 None	Profile Description:	(Describe to the c	ieptn needed t	o document tr	Redc	x Feat	n the absence o	of indicate	ors.)			
0-2 10YR 3/3 100 None	Depth (inches) C	Color (moist)	%	Color (moist) %	A I Cu	Type ¹	Loc	2	Texture	R	emarks
2-16 10YR 5/4 100 None	0-2	10YR 3/3	100	None			_	_		Silt Loam		
"Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ?Location: PL=Pore Lining, M=Matrix. Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*: Histose (A1) Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (A9) (LRR O) Histose (A1) Denny Mucky Mineral (F1) (LRR O) Reduced Vertic (F18) (outside MLRA 150A,B) Histo Epipedon (A2) Thin Dark Surface (S8) (LRR S, T, U) 2 cm Muck (A10) (LRR P, S) Black Histic (A3) Leamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F18) (outside MLRA 150A,B) Hydric Soils (A) Leamy Glevel Matrix (F2) Peleformot Floodpain Soils (F20) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F7) Red Parert Material (TF2) Muck Presence (A8) (LRR P, T, U) Depleted Matrix (F3) Care Pareit Material (TF2) Muck Presence (A8) (LRR P, T) Mari (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Ork (F13) (MLRA 1501) Pindetors of hydrophylic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Della Orbric (F13) (MLRA 150A, 150B) Pindetors of hydrophylic vegetation and wetland hydrology must be present, unless disturbed or problematix (S6) Anomalous Bright Leamy Soils (F20) (MLRA 14	2-16	10YR 5/4	100	None			—			Silt Loam		
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Solis Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Solis ³ : Histoc Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U) 1 cm Muck (A9) (LRR O) Black Histic (A3) Loamy Gleyed Matrix (F2) Pledmont Floodplain Solis (F19) (LRR P, S, T) Stratified Layers (A5) Loamy Gleyed Matrix (F3) Anomalous Bright Loamy Solis (F20) Granic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153) S or Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F71) Med Parent Material (TF2) Muck Presence (A8) (LRR P, T, U) Depleted Dark Surface (F11) (MLRA 153) Other (Explain in Remarks) Depleted Balow Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Sindicators of hydrophytic vegetation and wetland hydrology musk persent, unless disturbed or problematic. Sandy Medox (K5) Depleted Ochric (F13) (MLRA 150A, 150B)		<u> </u>				-						
'Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 'Location: PL=Pore Lining, M=Matrix. Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils': Histosol (A1) Polyvalue Below Surface (S9) (LRR S, T, U) 1 cm Muck (A9) (LRR O) Histosol (A1) Camp Mucky Mineral (F1) (LRR O) 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) Anomaious Bright Loamy Soils (F20) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) S or 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) Muck A10 (LRR P, T) Mari (F10) (LRR V) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Chrin (F11) (MLRA 151) 'Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) 'Indicators of Nufrophytic vegetation and wetlan	<u> </u>											
Hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ¹ : Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (A9) (LRR O) Histosol (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 Suffice (A4) Loamy Gleyed Matrix (F2) Pietmont FlootDialn 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 (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR P, T) Mari (F10) (LRR V) Other (Explain in Remarks) Depleted Bow Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Thore-Manganese Masses (F12) (LRR O, P, T) Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D	¹ Type: C=Concentration	on D=Depletion R	M=Reduced Ma	atrix MS=Mask	ed Sand Grains	-		² Locatio	n: PI =Pore I	ining M=Matrix		
	Hydric Soils Indicato	rs: (Applicable to	o all LRRs, unle	ess otherwise	noted.)	•		Loound	Ind	licators for Proble	matic Hydric Soils	s ³ :
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 Gieyed Matrix (F2) Piedmont Floodplain Solis (F19) (LRR P, S, T) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Matrix (F3) Very Shallow Dark Surface (TF12) Muck Presence (A8) (LRR V, T) Redox Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR V, T) Redox Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR V, T) Mart (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Chric (F11) (MLRA 151) Thrick 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. Sandy Mucky Mineral (S1) (LRR O, S) Deleted Ochric (F13) (MLRA 150A, 150B) Piedmont Floodplain Solis (F19) (MLRA 149A, 153C, 153D) Stripped Matrix (S6) Anomalous Bright Loarmy Solis (F20) (MLRA 149A, 153C, 153D) No X Depletic Indication of hydric solis was observed. Hydric Soil Present? Yes No X	Histosol (A1)			Po	, lyvalue Below S	urface	(S8) (LRR S, T,	, U)		1 cm Muck (A9)	(LRR O)	
	Histic Epipedon	(A2)		Th	in Dark Surface	(S9) (I	LRR S, T, U)			2 cm Muck (A10) (LRR S)	
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) S cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR V) Redox Depressions (F8) Very Shallow Dark Surface (TF12) 1 cm Muck (A9) (LRR P, T) Mari (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Other (Explain in Remarks) Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F12) (LRR P, T, U) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 150A) Piedmont Floodplain Soils (F20) (MLRA 149A) Stripped Matrix (S4) Reduced Vertic (F18) (MLRA 149A) Piedmont Floodplain Soils (F20) (MLRA 149A), 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Piedmont Floodplain Soils (F20) (MLRA 149A), 153C, 153D) Piedmont Floodplain Soils (F20) (MLRA 149A), 153C, 153D) Dark Surface (If observed):	Black Histic (A3))		Lo	amy Mucky Mine	eral (F	1) (LRR O)			Reduced Vertic	(F18) (outside ML	.RA 150A,B)
Stratited Layers (A5)	Hydrogen Sulfid	e (A4)		Lo	amy Gleyed Mat	trix (F2	2)			Piedmont Flood	plain Soils (F19) (L	RR P, S, T)
	Stratified Layers			De	epleted Matrix (F	3)				Anomalous Brig	nt Loamy Soils (F2	0)
	5 cm Mucky Min	eral (A7) (I RR P.	, T. U)	Ne	onleted Dark Suriad	face (F) =7)			(WLKA 155B) Red Parent Mate	erial (TE2)	
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) other (Explain in Remarks) Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR O, P, T) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F13) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) problematic. Sandy Redox (S5) Piedmont Floodplain Solis (F19) (MLRA 149A) Anomalous Bright Loamy Solis (F20) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Solis (F20) (MLRA 149A, 153C, 153D) No Restrictive Layer (if observed): Type:	Muck Presence	(A8) (LRR U)	1, 0)	Be	edox Depression	iace (i is (F8)	")			Verv Shallow Da	irk Surface (TF12)	
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) 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 No X	1 cm Muck (A9)	(LRR P, T)		Ma	arl (F10) (LRR U	ŋ)				Other (Explain ir	n Remarks)	
	Depleted Below	Dark Surface (A11)	De	epleted Ochric (F	=11) (N	ILRA 151)			_		
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) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Depth (inches): Mo _ X Remarks: No positive indication of hydric soils was observed.	Thick Dark Surfa	ace (A12)		Iro	n-Manganese N	lasses	(F12) (LRR O ,	Ρ, Τ)		³ Indicators of	hydrophytic veget	ation and wetland
Sandy Mucky Mineral (S1) (LRR 0, S)	Coast Prairie Re	edox (A16) (MLRA	150A)	Ur	nbric Surface (F	13) (LI	RR P, T, U)			problematic.	st be present, unie	
Sandy Gleyed Matrix (S4) Ceduced Vericit (r 16) (MLRA 190A, 190B) 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): Depth (inches): Piedmont Floodplain Soils (F20) (MLRA 149A, 153C, 153D) Hydric Soil Present? Yes No X	Sandy Mucky Mi	inerai (S1) (LRR O Iotrix (S4)	, S)	De	ena Uchric (F17)	(MLR 18\/**	A 151)	3)				
	Sandy Gleyed M	iaulx (34)		Re	edmont Floodola	in Soil	s (F19) (MI RA 1	-, 149A)				
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): No X Remarks: No positive indication of hydric soils was observed.	Stripped Matrix ((S6)		An	omalous Bright	Loamy	Soils (F20) (ML	.RA 149A.	153C, 153D)			
Restrictive Layer (if observed): Type: Type:	Dark Surface (S	7) (LRR P, S, T, U)		ŭ	,		,				
Type:	Restrictive Layer (if c	bserved):										
Depth (inches): No X Remarks: No positive indication of hydric soils was observed.	Туре:				_							
Remarks: No positive indication of hydric soils was observed.	Depth (inches)	:							Hydric Soi	Present? Yes	No	D <u>X</u>
No positive indication of hydric soils was observed.	Remarks:											
	No positive indication of	of hydric soils was	observed.									

EGETATION (Five Strata) - Use scientific name	es of plants	i.		Sampling Point:	DP7
	Absolute % cover	Dominant Species	Indicator Status	Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft.)				Number of Dominant Species	
1. Quercus falcata	15	Yes	FACU	That Are OBL, FACW, or FAC:	2 (A)
2. Quercus nigra	10	Yes	FAC		
3. Quercus stellata	10	Yes	UPL	Total Number of Dominant	
4				Species Across All Strata:	7 (B)
5					
6				Percent of Dominant Species	
	35	= Total Cover		That Are OBL, FACW, or FAC:	29% (A/B)
50% of total cover	r: 17.5	20% of total cover:	7		
				Prevalence Index Worksheet:	
Sapling Stratum (Plot size: 30 ft.)	20	¥	FACU	Tatal % Cause of	Multiply by
	20	Yes	FACU		
2. Carya tomentosa	15	Yes	UPL	OBL species 0	x1= <u>0</u>
3				FACW species 0	x 2 = 0
5				FACILI species 38	x 4 = 152
6				IPI species 27	x 5 = 135
	35	= Total Cover		Column Totals: 85	(A) 347 (B)
50% of total cover	r: 17.5	20% of total cover:	7		())()
Shruh Stratum (Plot size: 30 ft)				Prevalence Index = B/A =	4.08
1. Vaccinium arboreum	3	Yes	FACU		4.00
2				Hydrophytic Vegetation Indicators:	
3				1 - Rapid Test for Hydrophytic Ve	getation
4				2 - Dominance Test is >50%	
5				3 - Prevalence Index is ≤ 3.0 ¹	
6				Problematic Hydrophytic Vegetati	on¹ (Explain)
	3	= Total Cover		1	
50% of total cover	r: <u>1.5</u>	20% of total cover:	0.6	Indicators of hydric soil and wetland hydro	logy must
				be present, unless disturbed or problematic.	
Herb Stratum (Plot size: <u>30 ft.</u>)	10	Voc	EAC	Definitions of Five Vegetation Strate:	
2 Smilex numile	2	No		Deminions of Five vegetation Strata.	
3			012	Tree - Woody plants, excluding woody vines	
4				approximately 20 ft (6m) or more in height an	', 1d 3 in.
5				(7.6 cm) or larger in diameter at breast heigh	t (DBH)
6.				(i to only of larger in diameter at prodet heigh	(001)
7.				Sapling - Woody plants, excluding woody vi	nes,
8.				approximately 20 ft (6 m) or more in height a	nd less
9.				than 3 in. (7.6 cm) DBH.	
10.					
11.				Shrub - Woody plants, excluding woody vine	≯S,
	12	= Total Cover		approximately 3 to 20 ft (1 to 6 m) in height.	
50% of total cover	r: 6	20% of total cover:	2.4		
				Herb - All herbaceous (non-woody) plants, in	cluding
Woody Vine Stratum (Plot size: 30 ft.)				herbaceous vines, regardless of size, and w	ody
1. None Observed				plants, except woody vines, less than approx	imately
2				2 ft (1 m) in height.	
3					
4				Woody vine - All woody vines, regardless of	height.
5					
		= Total Cover		Hydrophytic	
50% of total cover	r:	20% of total cover:		Vegetation	
				Present? Yes	10 <u>X</u>
Remarks: (if observed, list morphological adaptations h	elow).				
No positive indication of hydrophytic vegetation was observe	d (≥50% of do	minant species indexed a	as FAC- or drier	r).	





Project/Site.	Bob Ar	nthony Parkwa	y Relocation	C	ounty:	Madison	Sampling I	Date:	July 12, 2023
Applicant/Owner:		Mississippi D	Department of Trans	portation	State	e:	Mississippi Sample P	oint:	DP8
Investigator(s):	Savannah R. Mo	orales	and Bettie S	hoemaker	Section, Township	, Range:	S	34, T7N, R2E	
Landform (hillslope, terrac	ce, etc.):	I	Undulating Plane		Local relief (conc	ave, convex, none	e): Convex	Slope (%):	0-5
Subregion (LRR or MLRA	.):	L	.RR P, MLRA 134		Lat: 32.	40512 L	_ong:	Datum:	NAD 83
Soil Map Unit Name:			Cascilla-C	alhoun associatio	n		NWI Classification:		PF01A
Are climatic / hydrologic co	onditions on the site	typical for this	time of year?	No significant	(Yes / No)	Yes	(if no, explain in Remark	s.) Voc	Y No
Are Vegetation	,30ii	<u>No</u> ,or	Hydrology I	No naturally n	roblematic?	Are Normai Circ	eeded explain any answer	s in Remarks)	
SUMMARY OF FIN	NDINGS - Attac	h site mar	showing san	noling point	locations, tra	nsects, impo	rtant features, etc.	s in itemarks.)	
Hudronhutia Vagatation [Dresent?	Vee	No.	v v					
Hydrophylic Vegetation F Hydric Soil Present?	Present?	Yes	X No		is the Sampled	Area			
Wetland Hydrology Pres	ent?	Yes	No No	X	within a Wetlar	nd?	Yes	No	х
Remarks: This point was deter	rmined not to be with	nin a wetland d	ue to the lack of hyd	trophytic vegetatio	on and wetland hydr	ology			
		in a notana a		nopiny to regotate	in and irotania riya	0.099.			
Wotland bydrology	v Indicatore:								
	y mulcators.						Secondary Indicators (m	inimum of two req	uired)
Primary Indicators (minimum of one is re	equired; check	all that apply)	untin Fourne (P12)			Surface Soil Cra	cks (B6) tod Concours Surfr	aaa (P9)
High Water	Table (A2)		Aqu Mar	I Denosits (B15)			Drainage Pattern	e (B10)	
Saturation (/				trogen Sulfide Od	or (C1)		Moss Trim Lines	(B16)	
Water Marks	s (B1)		Oxi	dized Rhizosphere	es on Living Roots(C3)	Drv-Season Wat	er Table (C2)	
Sediment De	eposits (B2)		Pre	sence of Reduced	I Iron (C4)	,	Crayfish Burrows	s (C8)	
Drift Deposit	its (B3)		Rec	cent Iron Reductio	n in Tilled Soils (C6)	Saturation Visible	e on Aerial Imager	y (C9)
Algal Mat or	r Crust (B4)		Thir	n Muck Surface (C	(7)		Geomorphic Pos	ition (D2)	
Iron Deposit	ts (B5)		Oth	er (Explain in Ren	narks)		Shallow Aquitard	(D3)	
Inundation V	isible on Aerial Imag	gery (B7)					FAC-Neutral Tes	t (D5)	
Water-Stain	ed Leaves (B9)						Sphagnum moss	(D8) (LRR T, U)	
Field Observations:									
Surface Water Present?	Yes	No	<u> </u>	Depth (inches)	: N/A	Wetland Hydro	logy Present?	Yes	No X
Water Table Present?	Yes	No	<u> </u>	Depth (inches)	: >16				
Saturation Present?	Yes	No	X	Depth (inches)	: >16				
Describe Recorded	l Data (stream gauge	e, monitoring w	ell, aerial photos, pr	evious inspections	s), if available:				
Bomorko									
Remarks.									
No positive indication	on of wetland hydrold	nov was observ							
		,g) nao oboon	/ed.						
SOIL		-9) nao obcon	/ed.						
SOIL Profile Description	n: (Describe to the	depth needed	to document the	indicator or conf	irm the absence o	f indicators.)			
SOIL Profile Description	n: (Describe to the Matrix	depth needec	d to document the	indicator or conf Redox Fe	irm the absence o	f indicators.)			
SOIL Profile Description Depth _ (inches)	n: (Describe to the Matrix Color (moist)	depth needec	t to document the	indicator or conf Redox Fe	irm the absence o eatures Type ¹	f indicators.)	Texture	Rei	marks
SOIL Profile Description Depth (inches) 0-2	n: (Describe to the Matrix Color (moist) 7.5YR 3/3	depth needec	to document the Color (moist) None	indicator or conf Redox Fe	irm the absence o eatures Type ¹	f indicators.)	Texture Silt Loam	Rei	marks
SOIL Profile Description Depth (inches) 0-2 2-6	n: (Describe to the Matrix Color (moist) 7.5YR 3/3 10YR 6/2	depth needec	to document the Color (moist) None 7.5YR 5/8	indicator or conf Redox Fe 	irm the absence o patures 	f indicators.)	Texture Silt Loam Silt Loam	Re	marks
SOIL Profile Description Depth O-2 2-6 6-16	n: (Describe to the Matrix Color (moist) 7.5YR 3/3 10YR 6/2 7.5YR 7/1	depth needec <u>%</u> <u>100</u> <u>95</u> <u>95</u>	to document the Color (moist) None 7.5YR 5/8 7.5YR 5/8	indicator or conf Redox Fe 	irm the absence o eatures 	f indicators.) Loc ² M M	Texture Silt Loam Silt Loam Silt Loam	Re	marks
SOIL Profile Description Depth O-2 2-6 6-16	n: (Describe to the Matrix Color (moist) 7.5YR 3/3 10YR 6/2 7.5YR 7/1	depth needec	to document the Color (moist) None 7.5YR 5/8 7.5YR 5/8	indicator or conf Redox Fe 	irm the absence o eatures 	f indicators.) Loc ² M M	Texture Silt Loam Silt Loam Silt Loam	Rei	marks
SOIL Profile Description Depth O-2 2-6 6-16	n: (Describe to the Matrix Color (moist) 7.5YR 3/3 10YR 6/2 7.5YR 7/1	depth needec	to document the Color (moist) None 7.5YR 5/8 7.5YR 5/8	indicator or conf Redox Fe 	irm the absence o eatures 	f indicators.)	Texture Silt Loam Silt Loam Silt Loam	Rei	marks
SOIL Profile Description Depth O-2 2-6 6-16 'Type: C=Concentr bydric Soils Indice	n: (Describe to the Matrix Color (moist) 7.5YR 3/3 10YR 6/2 7.5YR 7/1 ration, D=Depletion, ators: (Applicable 1	depth needec	to document the Color (moist) None 7.5YR 5/8 7.5YR 5/8 Matrix, MS=Masked	indicator or conf Redox Fe 	irm the absence o eatures 	f indicators.) Loc ² M M ² Location: PL=F	Texture Silt Loam Silt Loam Silt Loam Silt Loam	Rei	marks
SOIL Profile Description Depth O-2 2-6 6-16 Type: C=Concentr Hydric Soils Indice Histosol (A1)	n: (Describe to the Matrix Color (moist) 7.5YR 3/3 10YR 6/2 7.5YR 7/1 ration, D=Depletion, ators: (Applicable for	depth needed <u>%</u> <u>100</u> <u>95</u> <u>95</u> <u>95</u> <u>RM=Reduced</u> to all LRRs, un	to document the Color (moist) None 7.5YR 5/8 7.5YR 5/8 Matrix, MS=Masked nless otherwise nc	indicator or conf Redox Fe 	irm the absence o atures Type ¹ C C C C C C C C C C C C C	of indicators.)	Texture Silt Loam Silt Loam Silt Loam Silt Loam ore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I	Rei	marks
SOIL Profile Description Depth O-2 2-6 6-16 'Type: C=Concentr Hydric Soils Indice Histoc Epiced Histoc Epiced	n: (Describe to the Matrix Color (moist) 7.5YR 3/3 10YR 6/2 7.5YR 7/1 ration, D=Depletion, ators: (Applicable for lon (A2)	depth needed <u>%</u> <u>100</u> <u>95</u> <u>95</u> <u>95</u> <u>RM=Reduced</u> to all LRRs, un	d to document the Color (moist) None 7.5YR 5/8 7.5YR 5/8 Matrix, MS=Masked nless otherwise nc Polyn Thin	indicator or conf Redox Fe 	Type1	of indicators.)	Texture Silt Loam Silt Loam Silt Loam Silt Loam Core Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (L 2 cm Muck (A10)	Rei	marks
SOIL Profile Description Depth O-2 2-6 6-16 ' Type: C=Concentr Hydric Soils Indica Histosol (A1) Histic Epiped Black Histic (n: (Describe to the Matrix Color (moist) 7.5YR 3/3 10YR 6/2 7.5YR 7/1 ration, D=Depletion, ators: (Applicable for lon (A2) A3)	depth needec	d to document the Color (moist) None 7.5YR 5/8 7.5YR 5/8 Matrix, MS=Masked nless otherwise nc Polyn Loan	indicator or conf Redox Fe 	Type1	of indicators.)	Texture Silt Loam Silt Loam Silt Loam Silt Loam Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F	Rei atic Hydric Soils ⁶ 	marks
SOIL Profile Description Depth O-2 2-6 6-16 ' Type: C=Concentr Hydric Soils Indica Histosol (A1) Histic Epiped Black Histic (Hydrogen Sul	n: (Describe to the Matrix Color (moist) 7.5YR 3/3 10YR 6/2 7.5YR 7/1 ration, D=Depletion, ators: (Applicable for lon (A2) A3) lifide (A4)	depth needec	d to document the Color (moist) None 7.5YR 5/8 7.5YR 5/8 Matrix, MS=Masked nless otherwise nd Polyn Loan Loan	indicator or conf Redox Fe 	Type1	of indicators.)	Texture Silt Loam Silt Loam Silt Loam Silt Loam Ore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (L 2 cm Muck (A10) (2 cm Muck (A10) (Reduced Vertic (F Piedmont Floodpla	Rei atic Hydric Soils ³ 	marks
SOIL Profile Description Depth O-2 2-6 6-16 ' Type: C=Concentr Hydric Soils Indica Histosol (A1) Histic Epiped Black Histic (Hydrogen Sul Stratified Layy	n: (Describe to the Matrix Color (moist) 7.5YR 3/3 10YR 6/2 7.5YR 7/1 ration, D=Depletion, ators: (Applicable f lon (A2) A3) lifde (A4) ers (A5)	depth needec	d to document the Color (moist) None 7.5YR 5/8 7.5YR 5/8 Matrix, MS=Masked nless otherwise no Poly Thin Loan Loan X Depl	indicator or conf Redox Fc 	Type1	of indicators.)	Texture Silt Loam Silt Loam Silt Loam Silt Loam Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (L 2 cm Muck (A10) (2 cm Muck (A10) (Reduced Vertic (F Piedmont Floodpla Anomalous Bright	Ren atic Hydric Soils ² 	marks
SOIL Profile Description Depth O-2 2-6 6-16 ' Type: C=Concentr Hydric Soils Indica Histosol (A1) Histic Epiped Black Histic (, Hydrogen Sul Stratified Layu Organic Bodia	n: (Describe to the <u>Matrix</u> <u>Color (moist)</u> 7.5YR 3/3 10YR 6/2 7.5YR 7/1 ration, D=Depletion, ators: (Applicable for Ion (A2) A3) lifide (A4) rers (A5) ies (A6) (LRR P, T, L	depth needec	d to document the Color (moist) None 7.5YR 5/8 7.5YR 5/8 Matrix, MS=Masked nless otherwise no Poly Loan Loan Loan X Depl	indicator or conf Redox Fc 	irm the absence o	of indicators.)	Texture Silt Loam Silt Loam Silt Loam Silt Loam Core Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B)	Ren atic Hydric Soils ² atic Hydric Soils ² (LRR S) (LRR S) (18) (outside MLF ain Soils (F19) (LR Loarny Soils (F20)	marks
SOIL Profile Description Depth O-2 2-6 6-16 ' 'Type: C=Concentr Hydric Soils Indice Histosol (A1) Histic Epiped Black Histo (Hydrogen Sul Stratified Layu Organic Bodiu 5 cm Mucky M	n: (Describe to the <u>Matrix</u> <u>Color (moist)</u> 7.5YR 3/3 10YR 6/2 7.5YR 7/1 ration, D=Depletion, ators: (Applicable for Ion (A2) A3) lifide (A4) vers (A5) ies (A6) (LRR P, T, L Mineral (A7) (LRR P,	depth needec 	d to document the Color (moist) None 7.5YR 5/8 7.5YR 5/8 Matrix, MS=Masked nless otherwise no Poly Thin Loan Loan X Depl Redo	indicator or conf Redox Fc 	Type1	of indicators.)	Texture Silt Loam Silt Loam Silt Loam Silt Loam Core Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) I Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Materi	Ren atic Hydric Soils ⁵ atic Hydric Soils ⁶ (LRR S) (LRR S) (IB) (outside MLF ain Soils (F19) (LR Loamy Soils (F20 ial (TF2)	marks
SOIL Profile Description Depth O-2 2-6 6-16 'Type: C=Concentr Hydric Soils Indice Histosol (A1) Histic Epiped Black Histic (Hydrogen Sul Stratified Layu Organic Bodiu 5 cm Mucky M Muck Presen	n: (Describe to the <u>Matrix</u> <u>Color (moist)</u> 7.5YR 3/3 10YR 6/2 7.5YR 7/1 ration, D=Depletion, ators: (Applicable for Inn (A2) A3) Ifide (A4) rers (A5) ies (A6) (LRR P, T, L Mineral (A7) (LRR P, Icce (A8) (LRR U)	depth needed 	d to document the Color (moist) None 7.5YR 5/8 7.5YR 5/8 Matrix, MS=Masked mless otherwise no Poly Thin Loan Loan X Depl Redo	indicator or conf Redox Fc 	irrm the absence of eatures	of indicators.)	Texture Silt Loam Silt Loam Silt Loam Silt Loam Core Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) 1 Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Dark	Ren atic Hydric Soils ² atic Hydric Soils ² (LRR S) (LRR S) (18) (outside MLF ain Soils (F19) (LR Loamy Soils (F20) ial (TF2) s Surface (TF12)	marks
SOIL Profile Description Depth O-2 2-6 6-16 'Type: C=Concentr Hydric Soils Indice Histosol (A1) Histic Epiped Black Histic (Hydrogen Sul Stratified Layu Organic Bodii 5 cm Mucky M Muck Present 1 cm Muck (A)	n: (Describe to the <u>Matrix</u> <u>Color (moist)</u> 7.5YR 3/3 10YR 6/2 7.5YR 7/1 ration, D=Depletion, ators: (Applicable for ion (A2) A3) Ifide (A4) rers (A5) lifide (A4) rers (A5) (LRR P, T, L Wineral (A7) (LRR P) A9) (LRR P, T)	depth needed 	A to document the Color (moist) None 7.5YR 5/8 7.5YR 5/8 Matrix, MS=Masked nless otherwise no Polyn Thin Loan X Depl Redo Depl Redo Mari	indicator or conf Redox Fc 	irm the absence o	of indicators.)	Texture Silt Loam Silt Loam Silt Loam Silt Loam Core Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) (I 2 cm Muck (A10) (I 2 cm Muck (A10) (I Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Dark Other (Explain in f	Rei atic Hydric Soils ² ARR O) (LRR S) 18) (outside MLF ain Soils (F19) (LF Loamy Soils (F20 ial (TF2) s Surface (TF12) Remarks)	<u>marks</u>
SOIL Profile Description Depth O-2 2-6 6-16 'Type: C=Concentr Hydric Soils Indice Histosol (A1) Histic Epiped Black Histic (Hydrogen Sul Stratified Layu Organic Bodia 5 cm Muck Presen 1 cm Muck (A Depleted Bei	n: (Describe to the <u>Matrix</u> <u>Color (moist)</u> 7.5YR 3/3 10YR 6/2 7.5YR 7/1 ration, D=Depletion, ators: (Applicable for indical (AP) (AA) lifide (A4) rers (A5) lifide (A4) rers (A5) lifide (A4) rers (A5) lifide (A4) rers (A5) (LRR P, T, L Mineral (A7) (LRR P) (LRR P, T) ow Dark Surface (A1)	depth needed <u>- %</u> <u>- 100</u> <u>95</u> <u>95</u> <u>95</u> <u></u> RM=Reduced to all LRRs, un J) , T, U) 1)	A to document the Color (moist) None 7.5YR 5/8 7.5YR 5/8 Matrix, MS=Masked mless otherwise nd Depl Redd Mari Depl Redd Mari	indicator or conf Redox Fe 	Type1 Type1 C C C C C C C C C C C C C	of indicators.)	Texture Silt Loam Silt Loam Silt Loam Silt Loam Core Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) (I 2 cm Muck (A10) (I 2 cm Muck (A10) (I Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Dark Other (Explain in f	Rei atic Hydric Soils ² ARR O) (LRR S) 18) (outside MLF ain Soils (F19) (LF Loamy Soils (F20 ial (TF2) s Surface (TF12) Remarks) wdrophytic	marks
SOIL Profile Description Depth O-2 2-6 6-16 'Type: C=Concentr Hydric Soils Indice Histosol (A1) Histic Epiped Black Histic (Hydrogen Sul Stratified Laye Organic Bodie 5 cm Muck Presen 1 cm Muck (A Depleted Bek Thick Dark Su	n: (Describe to the Matrix Color (moist) 7.5YR 3/3 10YR 6/2 7.5YR 7/1 ration, D=Depletion, ators: (Applicable for (Applicable for (After A) rers (A5) lifide (A4) rers (A5) lifide (A4) lifide (A4) rers (A5) lifide (A4) lifide (A4) lif	depth needed	Additional and a second	indicator or conf Redox Fe 	Type1 Type1 C C C C C C C C C C C C C	of indicators.)	Texture Silt Loam Silt Loam Silt Loam Silt Loam Core Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) (I 2 cm Muck (A10) (I 2 cm Muck (A10) (I Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Dark Other (Explain in f ³ Indicators of h hydrology must	Rei atic Hydric Soils ⁵ ARR O) (LRR S) 18) (outside MLF ain Soils (F19) (LF Loamy Soils (F20 ial (TF2) s Surface (TF12) Remarks) ydrophytic vegetal be present, unles	marks a. RA 150A,B) RR P, S, T)) tion and wetland is disturbed or
SOIL Profile Description Depth O-2 2-6 6-16 ' 'Type: C=Concentr Hydric Soils Indice Histosol (A1) Histic Epiped Black Histic (Hydrogen Sul Stratified Lay Organic Bodi 5 cm Mucky M Muck Presen 1 cm Muck (A Depleted Bek Thick Dark Su Coast Prairie Sandy Much	n: (Describe to the Matrix Color (moist) 7.5YR 3/3 10YR 6/2 7.5YR 7/1 ration, D=Depletion, ators: (Applicable 1 in (A2) A3) Ifide (A4) rers (A5) les (A6) (LRR P, T, L Mineral (A7) (LRR P, tow (A8) (LRR U) A9) (LRR P, T) ow Dark Surface (A12) Redox (A16) (MLR// Wineral (S1 // LPB)	depth needed <u>%</u> <u>100</u> <u>95</u> <u>95</u> <u>95</u> RM=Reduced to all LRRs, un 1) 1) 1) 1) 0, S)	Additional and a second	indicator or conf Redox Fe 	Type1 Type1 C C C C C C C C C C C C C	of indicators.)	Texture Silt Loam Silt Loam Silt Loam Silt Loam Core Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) (I 2 cm Muck (A10) (I 2 cm Muck (A10) (I Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Dark Other (Explain in f ³ Indicators of h hydrology must problematic.	Rei atic Hydric Soils ⁵ LRR O) (LRR S) 18) (outside MLF ain Soils (F19) (LR Loamy Soils (F20 ial (TF2) Surface (TF12) Remarks) ydrophytic vegetal be present, unles	marks
SOIL Profile Description Depth O-2 2-6 6-16 ' 'Type: C=Concentr Hydric Soils Indice Histosol (A1) Histic Epiped Black Histic (Hydrogen Sul Stratified Lay Organic Bodi 5 cm Mucky M Muck Presen 1 cm Muck (A Depleted Bek Thick Dark Su Coast Prairie Sandy Mucky Sandy Glever	n: (Describe to the Matrix Color (moist) 7.5YR 3/3 10YR 6/2 7.5YR 7/1 7.5YR 7/1 ration, D=Depletion, ators: (Applicable 1 (Applicable 1 (Applicabl	depth needed	Additional and a construction of the second	indicator or conf Redox Fe 	irrm the absence o	of indicators.)	Texture Silt Loam Silt Loam Silt Loam Silt Loam Core Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) (I 2 cm Muck (A10) (I 2 cm Muck (A10) (I Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Dark Other (Explain in f ³ Indicators of h hydrology must problematic.	Ren atic Hydric Soils ¹ ARR O) (LRR S) 18) (outside MLF ain Soils (F19) (LR Loamy Soils (F20 ial (TF2) c Surface (TF12) Remarks) ydrophytic vegetai be present, unles	marks
SOIL Profile Description Depth O-2 2-6 6-16 'Type: C=Concentr Hydric Soils Indice Histosol (A1) Histic Epiped Black Histic (Hydrogen Sul Stratified Lay Organic Bodi 5 cm Mucky M Muck Presen 1 cm Muck (A Depleted Bek Thick Dark Su Coast Prairie Sandy Mucky Sandy Gleyee Sandy Gleyee Sandy Gleyee Sandy Gleyee	n: (Describe to the Matrix Color (moist) 7.5YR 3/3 10YR 6/2 7.5YR 7/1 7.5YR 7/1 ration, D=Depletion, ators: (Applicable 1 (An (A2) A3) Ifide (A4) rers (A5) lifide (A4) rers (A5) lifide (A4) rers (A5) lifide (A4) rers (A5) wineral (A7) (LRR P, T, L Wineral (A7) (LRR P, T, L Wineral (A7) (LRR P, T) ow Dark Surface (A1 urface (A12) · Redox (A16) (MLR/ / Mimeral (S1) (LRR f)	depth needed	A to document the Color (moist) None 7.5YR 5/8 7.5YR 5/8 7.5YR 5/8 Matrix, MS=Masked mless otherwise no Poly Thin Loan Loan X Depl Redo Mari Depl Redo Mari Depl Iron- Umb Delta Redo Poly	indicator or conf Redox Fc 	Type ¹ <u>Type¹</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u>	of indicators.)	Texture Silt Loam Silt Loam Silt Loam Silt Loam Core Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) (I 2 cm Muck (A10) (I 2 cm Muck (A10) (I Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Dark Other (Explain in f ³ Indicators of h hydrology must problematic.	Ren atic Hydric Soils ¹ LRR O) (LRR S) 18) (outside MLF ain Soils (F19) (LR Loamy Soils (F20 ial (TF2) c Surface (TF12) Remarks) ydrophytic vegetai be present, unles	marks
SOIL Profile Description Depth O-2 2-6 6-16 ' 'Type: C=Concentr Hydric Soils Indice Histosol (A1) Histic Epiped Black Histic (Hydrogen Sul Stratified Lay Organic Bodi 5 cm Mucky M Muck Presen 1 cm Muck (A Depleted Beld Thick Dark Su Coast Prairie Sandy Mucky Sandy Gleyed Sandy Medox Stripped Matr	n: (Describe to the Matrix Color (moist) 7.5YR 3/3 10YR 6/2 7.5YR 7/1 7.5YR 7/1 ration, D=Depletion, ators: (Applicable 1 in (A2) A3) Ifide (A4) rers (A5) les (A6) (LRR P, T, L Wineral (A7) (LRR P, tarta (A7) (LRR P, Cac (A8) (LRR P, T) ow Dark Surface (A1 urface (A12) · Redox (A16) (MLR/ / Mineral (S1) (LRR f) Mineral (S1) (LRR f) (S5) fix (S6)	depth needed	A to document the Color (moist) None 7.5YR 5/8 7.5YR 5/8 7.5YR 5/8 Matrix, MS=Masked mless otherwise no Poly Thin Loan Loan X Depl Redo Mari Nation Nati	indicator or conf Redox Fc 	irrm the absence o	of indicators.)	Texture Silt Loam Silt Loam Silt Loam Silt Loam Core Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) (I 2 cm Muck (A10) (I 2 cm Muck (A10) (I Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Dark (MLRA 153B) Red Parent Mater Very Shallow Dark Other (Explain in f ³ Indicators of h hydrology must problematic. 53D)	Ref atic Hydric Soils ¹ ARR O) (LRR S) 18) (outside MLF ain Soils (F19) (LR Loamy Soils (F20 ial (TF2) c Surface (TF12) Remarks) ydrophytic vegetai be present, unles	marks
SOIL Profile Description Depth O-2 2-6 6-16 ' 'Type: C=Concentr Hydric Soils Indice Histosol (A1) Histic Epiped Black Histic (Hydrogen Sul Stratified Lay Organic Bodi 5 cm Mucky M Muck Presen 1 cm Muck (A Depleted Belo Thick Dark Su Coast Prairie Sandy Mucky Sandy Gleyed Sandy Redox Stripped Matr	n: (Describe to the Matrix Color (moist) 7.5YR 3/3 10YR 6/2 7.5YR 7/1 ration, D=Depletion, ators: (Applicable for (Applicable for (Ap	depth needed	A to document the Color (moist) None 7.5YR 5/8 7.5YR 5/8 7.5YR 5/8 Matrix, MS=Masked mless otherwise no Polyn Con Con Con Con Con Con Con Con Con Co	indicator or conf Redox Fc 	irm the absence o eatures	of indicators.)	Texture Silt Loam Silt Loam Silt Loam Silt Loam Core Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10)	Ref atic Hydric Soils ³ ARR O) (LRR S) 18) (outside MLF ain Soils (F19) (LR Loamy Soils (F20 ial (TF2) (Surface (TF12)) Remarks) ydrophytic vegetat be present, unles	marks
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SOIL Profile Description Depth (inches) 0-2 2-6 6-16 ' 'Type: C=Concentr Hydric Soils Indice Histosol (A1) Histic Epiped Black Histic (Hydrogen Sul Stratified Laye Organic Bodi 5 cm Mucky M Muck Present 1 cm Muck (A Depleted Bel Thick Dark Sur Coast Prairie Sandy Mucky Sandy Gleyeet Sandy Redox Charls Surface Restrictive Layer (Type:	n: (Describe to the Matrix Color (moist) 7.5YR 3/3 10YR 6/2 7.5YR 7/1 ration, D=Depletion, ators: (Applicable to Infide (A4) ters (A5) lifide (A1) lifide	depth needed <u>%</u> <u>100</u> <u>95</u> <u>95</u> <u>95</u> RM=Reduced to all LRRs, un 1) 1) 1) 1) 1) 1, T, U) 1) U)	A to document the Color (moist) None 7.5YR 5/8 7.5YR 5/8 Matrix, MS=Masked mless otherwise nc Poly Thin Loan Loan Coan K Depl Redc Mari Depl Redc Mari Depl Redc Mari Depl Redc Anor	indicator or conf Redox Fe 	irm the absence o actures	f indicators.)	Texture Silt Loam Silt Loam Silt Loam Silt Loam Core Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) (I 2 cm Muck (A10) (I 2 cm Muck (A10) (I Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Dark (MLRA 153B) Red Parent Mater Very Shallow Dark (MLRA 153B) Red Parent Mater Other (Explain in f 3 Indicators of h hydrology must problematic.	Rei	marks
SOIL Profile Description Depth O-2 O-2 O-2 O-2 O-6 O-16 O-2	n: (Describe to the Matrix Color (moist) 7.5YR 3/3 10YR 6/2 7.5YR 7/1 ration, D=Depletion, ators: (Applicable to ration, D=Depletion, ators: (Applicable to Non (A2) A3) lifide (A4) rers (A5) les (A6) (LRR P, T, L Mineral (A7) (LRR P, toce (A8) (LRR U) A9) (LRR P, T) ow Dark Surface (A1 Wineral (S1) (LRR of Redox (A16) (MLR/ v Mineral (S1) (LRR of to (S5) rix (S6) e (S7) (LRR P, S, T, T) (if observed): 	depth needed <u>%</u> <u>100</u> <u>95</u> <u>95</u> <u>95</u> <u>95</u> <u>100</u> RM=Reduced to all LRRs, un 1) 1) 1) 1) 1) 1) 1) 1) 1) 1)	A to document the Color (moist) None 7.5YR 5/8 7.5YR 5/8 Matrix, MS=Masked nless otherwise nc Polyn Thin Loan Loan Coan Redc Mari Depl Redc Mari Depl Iron-Umb Deltz Redc Anor	indicator or conf Redox Fe 	irm the absence o	f indicators.) Loc ² M Zuccation: PL=F U) P, T) Hydri	Texture Silt Loam Silt Loam Silt Loam Silt Loam It communication Core Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) (Rei	marks
SOIL Profile Description Depth O-2	n: (Describe to the Matrix Color (moist) 7.5YR 3/3 10YR 6/2 7.5YR 7/1 ration, D=Depletion, ators: (Applicable to Infide (A4) rers (A5) les (A6) (LRR P, T, L Mineral (A7) (LRR P, toc (A8) (LRR U) A9) (LRR P, T) ow Dark Surface (A1 Wineral (S1) (LRR 0) Redox (A16) (MLR/ / Mineral (S1) (LRR 0) rix (S6) et (S7) (LRR P, S, T, 1) (if observed): Data buddie soil was c	depth needec	Additional and a construction of the second	indicator or conf Redox Fe 	irm the absence o	f indicators.) Loc ² M Zuccation: PL=F U) P, T) Hydri	Texture Silt Loam Silt Loam Silt Loam Silt Loam It common service of the service	Rei	marks

	es of plants.			Sampling Point: DP8	
	Absolute % cover	Dominant Species	Indicator Status	Dominance Test worksheet:	
Tree Stratum (Plot size: <u>30</u> ft.)				Number of Dominant Species	
1. Quercus falcata	30	Yes	FACU	That Are OBL, FACW, or FAC: 4 (A	4)
2. Liquidambar styraciflua	30	Yes	FAC		
3. Ostrya virginiana	20	Yes	FACU	Total Number of Dominant	
4		. <u> </u>		Species Across All Strata: 8 (3)
5		<u> </u>			
6				Percent of Dominant Species	
	80 =	Total Cover		That Are OBL, FACW, or FAC: 50% (A	ч/B)
50% of total cover	r: 40	20% of total cover:	16		
				Prevalence Index Worksheet:	
Sapling Stratum (Plot size: 30 ft.)					
1. Ostrya virginiana	3	Yes	FACU	Total % Cover of: Multiply by:	
2				OBL species 0 x 1 = 0	
3		<u> </u>		FACW species 15 x 2 = 30	—
4		·		FAC species <u>35</u> x 3 = <u>105</u>	
D		·		FACU species <u>60</u> x 4 = <u>240</u>	
0				UPL species 0 x 5 = 0 Optimize Table 440 (1) 111	— ,
50% (1.1.1	=	= Total Cover		Column Totals: <u>110</u> (A) <u>375</u>	(
50% of total cover	r: <u>1.5</u>	20% of total cover:	0.6		
Christ Stratism (Distaire) 20 ft)				Dravelence Index = D/A = 2.44	
Shrub Stratum (Plot size: <u>30 it.</u>)	-	Vac	EACU	Prevalence index = B/A = 3.41	—
		Tes	FACU	Hudrophytic Vegetation Indicators	
2		·		A Depid Test for Hydrophytic Vegetation	
3		·		Dominance Test is >50%	
5		· ·		2 = Dominance results > 30%	
6		·		$\frac{5 - 16}{2}$	
0		- Total Covor			
50% of total cover		20% of total cover:	1	¹ Indicators of hydric soil and wetland hydrology must	
	. 2.5	2070 01 10101 00001.	<u> </u>	he present unless disturbed or problematic	
Herb Stratum (Plot size: 30 ft.)					
1. Sabal minor	10	Yes	FACW	Definitions of Five Vegetation Strata:	
2. Arundinaria tecta	5	Yes	FACW		
3. Triadica sebifera	3	No	FAC	Tree - Woody plants, excluding woody vines,	
4. Vaccinium arboreum	2	No	FACU	approximately 20 ft (6m) or more in height and 3 in.	
5.				(7.6 cm) or larger in diameter at breast height (DBH).	
6.					
7.				Sapling - Woody plants, excluding woody vines,	
8.				approximately 20 ft (6 m) or more in height and less	
				than 3 in. (7.6 cm) DBH.	
9					
9 0					
9 0 1				Shrub - Woody plants, excluding woody vines,	
9 0 1	20 =	- Total Cover		Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	
9 0 1 50% of total cover	<u></u> = r: <u></u> 10	= Total Cover 20% of total cover:	4	Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	
9 0 1 50% of total cover	= r:10	Total Cover 20% of total cover:	4	 Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including 	
9 0 1 50% of total cover <u>50% of total cover</u> <u>50% of total cover</u>	<u>20</u> =	Total Cover 20% of total cover:	4	 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 	
9 0 1 50% of total cover <u>50% of total cover</u> <u>50% of total cover</u> 50% of total cover <u>50% of total cover</u> <u>50% of total cover</u> <u>50% of total cover</u> <u>50% of total cover</u> <u>50% of total cover</u>	 r:10	Total Cover 20% of total cover: Yes	4 FAC	 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 	
9 0 1 50% of total cover 50% of total	 	Total Cover 20% of total cover: Yes	4 FAC	 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. 	
9	 	Total Cover 20% of total cover: Yes	4 FAC	 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. 	
9		Total Cover 20% of total cover: Yes	4 FAC	 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. 	
9	 	Total Cover 20% of total cover: Yes	4 FAC	 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. 	
9	 2	Total Cover 20% of total cover: Yes Total Cover	4 FAC	 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 	
9	 	Total Cover 20% of total cover: Yes Total Cover 20% of total cover:	4 FAC 0.4	 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 	
9	 	Total Cover 20% of total cover: Yes Yes Total Cover 20% of total cover:	4 FAC 0.4	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 NoX	
9	 	Total Cover 20% of total cover: Yes Yes Total Cover 20% of total cover:	4 FAC 0.4	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 NoX	



Site: Bob Anthony Parkway Relocation									
Location: Jackson, Madison County, MS	SW W NW N 210 240 270 300 320 0 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 +								
Photo No: 16									
Date: 07/12/2023									
Description: Wetland determination Data Point 8 looking west.									
	DP8 Bob Anthony Parkway 07-12-2023; 8:00:51 AM								

	Bob Ant	hony Parkway Re	elocation	Co	ounty:	Madison	Sampling	Date:	July 12, 2023
Applicant/Owner:		Mississippi Depa	artment of Transp	ortation	State	e: <u>M</u>	ississippi Sample P	oint:	DP9
Investigator(s):	Savannah R. Mora	ales and	Bettie Sh	oemaker	Section, Township	, Range:	S	34, T7N, R2E	
Landform (hillslope, terrad	ce, etc.):	Und	lulating Plane	<u> </u>	Local relief (conc	ave, convex, none):	Linear Slope	Slope (%):	0-5
Subregion (LRR or MLRA		LRR	P, MLRA 134	lhour coociation	Lat:32.4	40294 Lo	ong: -90.07576	Datum:	NAD 83
Are climatic / bydrologic c	onditions on the site to	nical for this time	Cascilla-Ca	Inoun association		Vec	(if no, explain in Remark	e)	PFUIA
Are Vegetation	No .Soil	No .or Hvdr	roloav N	o significant	v disturbed?	Are "Normal Circu	mstances" present?	Yes	X No
Are Vegetation	No ,Soil	No ,or Hydr	rology N	o naturally p	roblematic?	(If ne	eded, explain any answei	s in Remarks.)	
SUMMARY OF FIN	NDINGS - Attach	n site map s	howing sam	pling point	locations, trai	nsects, import	tant features, etc.		
Hydrophytic Vegetation	Present?	Yes X	No						
Hydric Soil Present?		Yes	No	Х	Is the Sampled	Area			
Wetland Hydrology Pres	ent?	Yes	No	X	within a Wetlar	nd?	Yes	No	X
Remarks:					1				
This point was dete	ermined not to be within	n a wetland due t	to the lack of hydr	ic soils and wetla	nd hydrology.				
HYDROLOGY									
Wetland hydrolog	y Indicators:						Secondary Indicators (m	inimum of two req	uired)
Primary Indicators ((minimum of one is req	uired; check all t	that apply)				Surface Soil Cra	cks (B6)	
Surface Wa	ater (A1)		Aqua	atic Fauna (B13)			Sparsely Vegeta	ted Concave Surfa	ace (B8)
High Water	Table (A2)		Marl	Deposits (B15) (LRR U)		Drainage Patterr	is (B10)	
Saturation (A3)		Hydr	ogen Sulfide Odo	or (C1)		Moss Trim Lines	(B16)	
Water Mark	is (B1)		Oxid	ized Rhizosphere	es on Living Roots(C	53)	Dry-Season Wat	er Table (C2)	
Drift Deposi	its (Β2)		Pres Rece	ence or reduced	n in Tilled Soils (C6)		Saturation Visible	e on Aerial Imager	v (C9)
Algal Mat or	r Crust (B4)		Thin	Muck Surface (C	;7)	,	Geomorphic Pos	ition (D2)	, (50)
Iron Deposi	ts (B5)		Othe	r (Explain in Rem	, narks)		Shallow Aquitard	(D3)	
Inundation \	Visible on Aerial Image	ery (B7)					FAC-Neutral Tes	it (D5)	
Water-Stain	ned Leaves (B9)						Sphagnum moss	(D8) (LRR T, U)	
Field Observations:									
Surface Water Present?	Yes	No	x	Depth (inches)	: <u>N/A</u>	Wetland Hydrold	ogy Present?	Yes	No <u>X</u>
Water Table Present?	Yes	No	x	Depth (inches)	: >16				
Saturation Present?	Yes	No	x	Depth (inches)	: >16				
Describe Recorded	l Data (stream gauge,	monitoring well, a	aerial photos, pre	vious inspections	s), if available:				
Remarks:									
No positive indication	on of wetland hydrolog	V WAS ABSORVAG							
SOIL		y was observed.							
SOIL Profile Description	n: (Describe to the d	epth needed to	document the in	ndicator or conf	irm the absence of	f indicators.)			
SOIL Profile Description Depth –	n: (Describe to the d Matrix	epth needed to	document the in	n dicator or conf Redox Fe	irm the absence of patures	f indicators.)			
SOIL Profile Description Depth - (inches)	n: (Describe to the d Matrix Color (moist)	epth needed to	document the in	ndicator or conf Redox Fe	irm the absence of eatures Type ¹	f indicators.)	Texture	Rei	marks
SOIL Profile Description Depth (inches) 0-16	n: (Describe to the d Matrix Color (moist) 10YR 3/4	epth needed to	document the in Color (moist) 7.5YR 4/6	ndicator or conf Redox Fe <u>%</u> 2	irm the absence of patures Type ¹ C	f indicators.)	Texture Silt Loam	Rei	marks
SOIL Profile Description Depth (inches) 0-16	n: (Describe to the d Matrix Color (moist) 10YR 3/4	epth needed to	document the in Color (moist) 7.5YR 4/6	ndicator or conf Redox Fe <u>%</u> 2	irm the absence of patures Type ¹ C	f indicators.) Loc ² M	Texture Silt Loam	Re	marks
SOIL Profile Description Depth (inches) 0-16	n: (Describe to the d Matrix Color (moist) 10YR 3/4	epth needed to	document the in Color (moist) 7.5YR 4/6	ndicator or conf Redox Fe 	irm the absence of eatures Type ¹ C	f indicators.) Loc ² M	Texture Silt Loam	Rer	marks
SOIL Profile Description Depth (inches) 0-16	n: (Describe to the d Matrix Color (moist) 10YR 3/4	epth needed to	document the in Color (moist) 7.5YR 4/6	ndicator or conf Redox Fe 	irm the absence of eatures <u>Type¹</u> C	f indicators.) Loc ² M	Texture Silt Loam	Rer	marks
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SOIL Profile Description Depth (inches) 0-16 0-16 0-16 0-16 0-16 0-16 0-16 0-16	n: (Describe to the d Matrix Color (moist) 10YR 3/4 10YR 3/4 ration, D=Depletion, R ators: (Applicable to ators: (Applicable to ators: (Applicable to ators: (Applicable to ators: (Applicable to ators: (Applicable to blon (A2) (A3) ufide (A4) vers (A5) ies (A6) (LRR P, T, U) Mineral (A7) (LRR P, T ico (A8) (LRR U) A9) (LRR P, T) iow Dark Surface (A11 urface (A12) P Redox (A16) (MLRA y Mineral (S1) (LRR O d Matrix (S4) x (S5) p (S7) (LRR P, S, T, U)	<pre>y was observed. epth needed to </pre>	document the in Color (moist) 7.5YR 4/6 rrix, MS=Masked 3 ss otherwise not ss otherwise not Polyva Thin D Loamy Loamy Deple Redox Marl (I Deple Iron-M Umbri Deple Iron-M Umbri Deple Iron-M Marl (I Marl (I Marl (I) Polyva Anom	Andicator or conf Redox Fe 2 2 Sand Grains. Sand Grains. ted.) alue Below Surface (S9) y Mucky Mineral (y Gleyed Matrix (F ted Matrix (F3) (Dark Surface (F9) y Mucky Mineral (y Gleyed Matrix (F ted Dark Surface (F1) ted Ochric (F11) tanganese Massa c Surface (F13) (Ochric (F17) (ML ced Vertic (F18) (nont Floodplain Se alous Bright Loar	irm the absence of atures Type ¹ C C C C C C C C C C C C C	f indicators.) <u>Loc²</u> <u>M</u> <u></u> ² Location: PL=Po U) V) All 149A, 153C, 153	Texture Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpl, Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Darl Other (Explain in in ³ Indicators of h hydrology mus problematic. BD)	Rer atic Hydric Soils ³ LRR O) (LRR S) 18) (outside MLR ain Soils (F19) (LR Loamy Soils (F20) ial (TF2) (Surface (TF12) Remarks) ydrophytic vegetat t be present, unles	marks
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SOIL Profile Description Depth (inches) 0-16 ''Type: C=Concenti Hydric Soils Indic: Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay Organic Bodi Stratified Lay Organic Bodi Stratified Lay Organic Bodi Stratified Lay Corganic Bodi Stratified Lay Stratified Lay Corganic Bodi Stratified Lay Sandy Gleye Sandy Redoo Stripped Mat Dark Surface Restrictive Layer (Type:	n: (Describe to the d <u>Matrix</u> <u>Color (moist)</u> 10YR 3/4 10YR 3/4 <u>INTERSERVENTION</u> ration, D=Depletion, R ators: (Applicable to fall inter (A2) (A3) lifide (A4) vers (A5) ies (A6) (LRR P, T, U) Mineral (A7) (LRR P, T iec (A8) (LRR U) A9) (LRR P, T) iow Dark Surface (A11 urface (A12) PRedox (A16) (MLRA y Mineral (S1) (LRR O d Matrix (S4) k (S5) rix (S6) a (S7) (LRR P, S, T, U) (if observed):	<pre>epth needed to epth needed to M=Reduced Mat all LRRs, unles r, U) 150A) , S) </pre>	document the in Color (moist) 7.5YR 4/6 rix, MS=Masked 3 ss otherwise not Polyva Thin E Loamy Loamy Loamy Deple Redoo Marl (I Deple Iron-M Umbri Deple Redoo Marl (I Deple Iron-M Umbri Deple Anom	Adicator or conf Redox Fe 	irm the absence of ratures <u>Type1</u> <u>C</u> C C (LRR S, T, U) (F1) (LRR O) F2) (6) (F7) 8) (MLRA 151) es (F12) (LRR O, F LRR P, T, U) RA 151) MLRA 150A, 150B; oils (F19) (MLRA 14 my Soils (F20) (MLF	f indicators.) Loc ² M ² Location: PL=Po U) P, T) H9A) RA 149A, 153C, 153	Texture Silt Loam Silt Loa	Rer atic Hydric Soils ³ LRR O) (LRR S) 18) (outside MLR ain Soils (F19) (LR Loamy Soils (F20) ial (TF2) (Surface (TF12) Remarks) ydrophytic vegetat t be present, unles	marks
SOIL Profile Description Depth (inches) 0-16 ''Type: C=Concent Hydric Soils Indice Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay Organic Bodi Stratified Lay Organic Bodi Stratified Lay Organic Bodi Stratified Lay Organic Bodi Stratified Lay Cost Presen 1 cm Muck // Depleted Bel Thick Dark S Coast Prairie Sandy Mucky Sandy Gleye Sandy Redoo Stripped Mate Dark Surface Restrictive Layer (Type: Depth (inch	n: (Describe to the d <u>Matrix</u> <u>Color (moist)</u> 10YR 3/4 10YR 3/4 <u>matrix</u> ration, D=Depletion, R ators: (Applicable to fill (A2) (A3) lifide (A4) vers (A5) ies (A6) (LRR P, T, U) Mineral (A7) (LRR P, T ies (A6) (LRR P, T, U) A9) (LRR P, T) ow Dark Surface (A11 urface (A12) P Redox (A16) (MLRA y Mineral (S1) (LRR O d Matrix (S4) k (S5) rix (S6) e (S7) (LRR P, S, T, U) (if observed): mes):	epth needed to 	document the in Color (moist) 7.5YR 4/6 irix, MS=Masked 3 ss otherwise not Polyva Thin E Loamy Loamy Deple Redox Marl (I Deple Iron-N Umbri Deple Redox Marl (I Deple Anom	Adicator or conf Redox Fe 	irm the absence of satures Type1 C	f indicators.) Loc ² M ² Location: PL=Po U) P, T) Hydric	Texture Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpl Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Darl Other (Explain in I 3 Indicators of h hydrology mus problematic. SD) Soil Present? Yes	Rer atic Hydric Soils ³ .RR O) (LRR S) 18) (outside MLR ain Soils (F19) (LR Loamy Soils (F20) ial (TF2) (Surface (TF12) Remarks) ydrophytic vegetal t be present, unles	marks
SOIL Profile Description Depth (inches) 0-16 ' ' Type: C=Concent Hydric Soils Indic: Histosol (A1) Histoc Epiped Black Histic (Hydrogen Su Stratified Lay Organic Bodi 5 cm Mucky Stratified Lay Organic Bodi 5 cm Mucky Stratified Black Presen 1 cm Muck (/ Depleted Bel Thick Dark S Coast Prairie Sandy Mucky Sandy Gleye Sandy Redox Stripped Mat Dark Surface Restrictive Layer (Type: Depth (inch Remarks:	n: (Describe to the d <u>Matrix</u> <u>Color (moist)</u> 10YR 3/4 10YR 3/4 matrix ration, D=Depletion, R ators: (Applicable to lon (A2) (A3) lifide (A4) vers (A5) ies (A6) (LRR P, T, U) Mineral (A7) (LRR P, T ies (A6) (LRR U) A9) (LRR P, T) low Dark Surface (A11 urface (A12) Redox (A16) (MLRA v Mineral (S1) (LRR O d Matrix (S4) x (S5) rix (S6) e (S7) (LRR P, S, T, U) (if observed): mes):	<pre>epth needed to</pre>	document the in Color (moist) 7.5YR 4/6 trix, MS=Masked 3 ss otherwise not Polyva Thin E Loamy Loamy Deple Redoo Marl (I Deple Iron-M Umbri Deple Redou Polyva Anom	Adicator or conf Redox Fe 	irm the absence of satures Type1 C C (ILRR S, T, I) (F1) (LRR S, T, U) (F7) 8) (MLRA 151) es (F12) (LRR O, F LRR P, T, U) RA 151) MLRA 150, 150B; oils (F19) (MLRA 120, 150B; oils (F20) (MLF	f indicators.) 	Texture Silt Loam it Loam it Loam it Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpl Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Darl Other (Explain in In 3 Indicators of h hydrology mus problematic. BD) Soil Present? Yes	Rer atic Hydric Soils ³ .RR O) (LRR S) 18) (outside MLR ain Soils (F19) (LR Loamy Soils (F20) ial (TF2) c Surface (TF12) Remarks) ydrophytic vegetat t be present, unles	marks
SOIL Profile Description Depth (inches) 0-16 0-16 0-16 0-16 0-16 0-16 0-16 0-16	n: (Describe to the d <u>Matrix</u> <u>Color (moist)</u> 10YR 3/4 10YR 3/4 matrix ration, D=Depletion, R ators: (Applicable to lon (A2) (A3) lifide (A4) vers (A5) ies (A6) (LRR P, T, U) Mineral (A7) (LRR P, T, U) Mineral (A7) (LRR P, T) now Dark Surface (A11 urface (A12) Redox (A16) (MLRA y Mineral (S1) (LRR O d Matrix (S4) x (S5) rix (S6) e (S7) (LRR P, S, T, U) (if observed): mes): mes):	epth needed to 98 98	document the in Color (moist) 7.5YR 4/6 trix, MS=Masked 1 ss otherwise not Polyva Thin D Loamy Loamy Deple Redov Marl (I Deple Iron-N Umbri Delta 1 Reduc Piedm Anom	Adicator or conf Redox Fe 	irm the absence of satures	f indicators.) Loc ² M ² Location: PL=Po U) P, T) A9A) RA 149A, 153C, 153 Hydric	Texture Silt Loam it Loam it Loam it Loam it Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpl Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Darl Other (Explain in in ³ Indicators of h hydrology mus problematic. BD) Soil Present? Yes	Rei	marks

	Absolute %	Dominant	Indicator				
	cover	Species	Status	Dominance Test works	heet:		
Tree Stratum (Plot size: 30 ft.)				Number of Dominant Spe	cies		
1. Carya glabra	30	Yes	FACU	That Are OBL, FACW, or	FAC:		5 (A)
2. Quercus stellata	25	Yes	UPL				
3. Pinus taeda	20	Yes	FAC	Total Number of Domina	nt		
4. Acer rubrum		No	FAC	Species Across All Strata	i:		7(B)
5. Liquidambar styraciflua	5	No	FAC	Demonst of Demission of Co.			
J		- Total Covor		That Are ORL EACW, or	EAC	74	19/ (A/E
50% of total		20% of total cover:	18	That Are ODE, FAGW, O	FAC.	/	176 (AVL
	cover. <u>45</u>	2070 01 10101 00001.					
Sapling Stratum (Plot size: 30 ft.)				Prevalence Index Work	sheet:		
. Quercus nigra	3	Yes	FAC	Total % C	over of:		Multiply by:
2. Nyssa sylvatica	3	Yes	FAC	OBL species	0	x 1 =	0
3.				FACW species	5	x 2 =	10
ł				FAC species	95	x 3 =	285
j				FACU species	30	x 4 =	120
S				UPL species	25	x 5 =	125
	6 =	Total Cover		Column Totals:	155	(A)	540
50% of total	cover: 3	20% of total cover:	1.2				
Shrub Stratum (Plot size: 30 ft.)				Prevalence Ir	dex = B/A =		3.48
. None Observed		<u> </u>					
		·		Hydrophytic Vegetation	Indicators:		
		·	<u> </u>	1 - Rapid Tes	t for Hydrophytic	Vegetation	
4		<u> </u>		<u>X</u> 2 - Dominanc	e lest is $>50\%$		
6.		·		5 - Frevalenc	e index is ≤ 3.0 Ivdrophytic Vege	tation ¹ (Expla	ain)
		Total Cover			iyaropriyao vege	tation (Expl	
50% of total	cover.	20% of total cover:		¹ Indicators of hydric so	l and wetland hv	drology must	
				be present, unless distur	bed or problemat	tic.	
lerb Stratum (Plot size: 30 ft.)							
. Chasmanthium sessiliflorum	50	Yes	FAC	Definitions of Five Veg	etation Strata:		
2. Arundinaria tecta	5	No	FACW				
Lookovo multifloro							
. Lackeya mullinora	2	No	FAC	Tree - Woody plants, ex	cluding woody vi	nes,	
. Lackeya mulunora	2	No	FAC	Tree - Woody plants, ex approximately 20 ft (6m)	cluding woody vi or more in height	nes, t and 3 in.	
	2 	<u>No</u>	FAC	Tree - Woody plants, ex approximately 20 ft (6m) (7.6 cm) or larger in diam	cluding woody vi or more in heigh eter at breast he	nes, t and 3 in. ight (DBH).	
. Laukeya mulukuta 4	2 	No	FAC	Tree - Woody plants, ex approximately 20 ft (6m) (7.6 cm) or larger in diam	cluding woody vi or more in height eter at breast he	nes, t and 3 in. ight (DBH).	
4	2 		FAC	Tree - Woody plants, ex approximately 20 ft (6m) (7.6 cm) or larger in diam Sapling - Woody plants, approximately 20 ft (6 m)	cluding woody vi or more in height eter at breast he excluding woody or more in beigh	nes, t and 3 in. ight (DBH). r vines, t and less	
2. Laukeya mulukura 4	2 		FAC	Tree - Woody plants, ex approximately 20 ft (6m) (7.6 cm) or larger in diam Sapling - Woody plants, approximately 20 ft (6 m) than 3 in, (7.6 cm) DBH.	cluding woody vi or more in height eter at breast he excluding woody or more in heigh	nes, t and 3 in. ight (DBH). r vines, t and less	
2. Laureya muluhura 4	2	<u>No</u>	FAC	Tree - Woody plants, ex approximately 20 ft (6m) (7.6 cm) or larger in diam Sapling - Woody plants, approximately 20 ft (6 m) than 3 in. (7.6 cm) DBH.	cluding woody vi or more in heighi eter at breast he excluding woody or more in heigh	nes, t and 3 in. ight (DBH). v vines, t and less	
2. Laureya mulukura 4		<u>No</u>	FAC	Tree - Woody plants, ex approximately 20 ft (6m) (7.6 cm) or larger in diarr Sapling - Woody plants, approximately 20 ft (6 m) than 3 in. (7.6 cm) DBH. Shrub - Woody plants, e	cluding woody vi or more in height eter at breast he excluding woody or more in heigh xcluding woody v	nes, t and 3 in. ight (DBH). v vines, t and less vines,	
. Laukeya mulukuta	2 	No		Tree - Woody plants, ex approximately 20 ft (6m) (7.6 cm) or larger in diarr Sapling - Woody plants, approximately 20 ft (6 m) than 3 in. (7.6 cm) DBH. Shrub - Woody plants, e approximately 3 to 20 ft (cluding woody vi or more in height eter at breast he excluding woody or more in heigh xcluding woody v 1 to 6 m) in heigh	nes, t and 3 in. ight (DBH). r vines, t and less rines, nt.	
4	2	No No Total Cover 20% of total cover:	FAC	Tree - Woody plants, ex approximately 20 ft (6m) (7.6 cm) or larger in diarr Sapling - Woody plants, approximately 20 ft (6 m) than 3 in. (7.6 cm) DBH. Shrub - Woody plants, e approximately 3 to 20 ft (cluding woody vi or more in height eter at breast he excluding woody or more in heigh xcluding woody v 1 to 6 m) in heigh	nes, t and 3 in. ight (DBH). v vines, tt and less vines, nt.	
Latereya Indultora 4. 5.	2	No No Total Cover 20% of total cover:		Tree - Woody plants, ex approximately 20 ft (6m) (7.6 cm) or larger in diarr Sapling - Woody plants, approximately 20 ft (6 m) than 3 in. (7.6 cm) DBH. Shrub - Woody plants, e approximately 3 to 20 ft (Herb - All herbaceous (n	cluding woody vi or more in height eter at breast he excluding woody or more in heigh xcluding woody v 1 to 6 m) in heigh on-woody) plants	nes, t and 3 in. ight (DBH). r vines, tt and less rines, nt.	
4	2	No No Total Cover 20% of total cover:		Tree - Woody plants, ex approximately 20 ft (6m) (7.6 cm) or larger in diarr Sapling - Woody plants, approximately 20 ft (6 m) than 3 in. (7.6 cm) DBH. Shrub - Woody plants, e approximately 3 to 20 ft (Herb - All herbaceous (n herbaceous vines, regar	cluding woody vi or more in height eter at breast he excluding woody or more in heigh xcluding woody v 1 to 6 m) in heigh on-woody) plants tiless of size, <u>anc</u>	nes, t and 3 in. ight (DBH). v vines, it and less vines, nt. s, including t woody	
Laureya multitora 4. 5. 7. 7. 9. 0. 1. Voody Vine Stratum (Plot size: <u>30 ft.</u> 1. Toxicodendron radicans	2	No No Total Cover 20% of total cover: Yes	FAC	 Tree - Woody plants, ex approximately 20 ft (6m) (7.6 cm) or larger in diarr Sapling - Woody plants, approximately 20 ft (6 m) than 3 in. (7.6 cm) DBH. Shrub - Woody plants, e approximately 3 to 20 ft (Herb - All herbaceous (n herbaceous vines, regard plants, except woody vin 	cluding woody vi or more in height eter at breast he excluding woody or more in heigh xcluding woody v 1 to 6 m) in heigh on-woody) plants tless of size, <u>anc</u> as, less than app	nes, t and 3 in. ight (DBH). v vines, it and less vines, nt. s, including t woody vroximately	
Laureya multihora 4. 5. 5. 7.		No No Total Cover 20% of total cover:		 Tree - Woody plants, ex approximately 20 ft (6m) (7.6 cm) or larger in diam Sapling - Woody plants, approximately 20 ft (6 m) than 3 in. (7.6 cm) DBH. Shrub - Woody plants, e approximately 3 to 20 ft (Herb - All herbaceous (n herbaceous vines, regard plants, except woody vin 2 ft (1 m) in height. 	cluding woody vi or more in height eter at breast he excluding woody or more in heigh xcluding woody v 1 to 6 m) in heigh on-woody) plants illess of size, <u>anc</u> es, less than app	nes, t and 3 in. ight (DBH). v vines, it and less vines, nt. s, including t woody vroximately	
Lackeya Induitiona		No		 Tree - Woody plants, ex approximately 20 ft (6m) (7.6 cm) or larger in diarr Sapling - Woody plants, approximately 20 ft (6 m) than 3 in. (7.6 cm) DBH. Shrub - Woody plants, e approximately 3 to 20 ft (Herb - All herbaceous (n herbaceous vines, regard plants, except woody vin 2 ft (1 m) in height. 	cluding woody vi or more in height eter at breast he excluding woody or more in heigh xcluding woody v 1 to 6 m) in heigh on-woody) plants tless of size, <u>anc</u> as, less than app	nes, t and 3 in. ight (DBH). v vines, it and less vines, nt. s, including t woody vroximately	
Lackeya multinora		No		 Tree - Woody plants, ex approximately 20 ft (6m) (7.6 cm) or larger in diam Sapling - Woody plants, approximately 20 ft (6 m) than 3 in. (7.6 cm) DBH. Shrub - Woody plants, e approximately 3 to 20 ft (Herb - All herbaceous (n herbaceous vines, regard plants, except woody vin 2 ft (1 m) in height. Woody vine - All woody 	cluding woody vi or more in height eter at breast he excluding woody or more in heigh xcluding woody v 1 to 6 m) in heigh on-woody) plants illess of size, <u>anc</u> as, less than app vines, regardless	nes, t and 3 in. ight (DBH). v vines, it and less vines, nt. s, including t woody vroximately s of height.	
Lackeya multinora				 Tree - Woody plants, ex approximately 20 ft (6m) (7.6 cm) or larger in diam Sapling - Woody plants, approximately 20 ft (6 m) than 3 in. (7.6 cm) DBH. Shrub - Woody plants, e approximately 3 to 20 ft (Herb - All herbaceous (n herbaceous vines, regard plants, except woody vin 2 ft (1 m) in height. Woody vine - All woody 	cluding woody vi or more in height eter at breast he excluding woody or more in heigh xcluding woody v 1 to 6 m) in heigh on-woody) plants illess of size, <u>anc</u> as, less than app vines, regardless	nes, and 3 in. ight (DBH). v vines, it and less vines, nt. a, including woody vroximately s of height.	
Lackeya Inuliniora	 	No No No Stal Cover 20% of total cover:		 Tree - Woody plants, ex approximately 20 ft (6m) (7.6 cm) or larger in diam Sapling - Woody plants, approximately 20 ft (6 m) than 3 in. (7.6 cm) DBH. Shrub - Woody plants, e approximately 3 to 20 ft (1 Herb - All herbaceous (n herbaceous vines, regard plants, except woody vin 2 ft (1 m) in height. Woody vine - All woody Hydrophytic 	cluding woody vi or more in height eter at breast he excluding woody or more in heigh xcluding woody v 1 to 6 m) in heigh on-woody) plants tless of size, <u>anc</u> as, less than app vines, regardless	nes, and 3 in. ight (DBH). v vines, it and less vines, nt. a, including woody vroximately s of height.	
Larkeya mulainara 4.	2 2 - - - - - - - - - - - - -	No No No No No No No No No No No No No N		 Tree - Woody plants, ex approximately 20 ft (6m) (7.6 cm) or larger in diarr Sapling - Woody plants, approximately 20 ft (6 m) than 3 in. (7.6 cm) DBH. Shrub - Woody plants, e approximately 3 to 20 ft (Herb - All herbaceous (n herbaceous vines, regard plants, except woody vin 2 ft (1 m) in height. Woody vine - All woody Hydrophytic Vegetation 	cluding woody vi or more in height eter at breast he excluding woody or more in heigh xcluding woody v 1 to 6 m) in heigh on-woody) plants illess of size, <u>anc</u> es, less than app vines, regardless	nes, and 3 in. ight (DBH). v vines, it and less vines, nt. a, including woody vroximately s of height.	

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



Location:	S 210	SW 240	W 270	300 NW	330 4
County, MS		• • • • • • •			[+1+1+1+
	C	267°W (T) • 32	402979, -90.07577	7±3 m ▲ 57 i	
			N AND AND	A LAN	HIS MY
		126201	y .	や市民国語	SNI BERNIN
Photo No:		一些作			GW COR.
18		行之间的			
Data:		Canada Pha	加速和系统学会	3 March	
07/12/2023			1 Acres and a second		
Description.			Alle Meeters	and the second	
Wetland determination			W. And W.	a diale	
Data Point 9 looking		a demis			A MAN STAN
west.	Cash and				
	A State of the second			Bob Ant	hony Parkway
	DP9			07-12-202	3, 8:56:12 AM

Flujeci/Sile.	Bob Ant	thony Parkway	Relocation	С	ounty:	Madison	Sampling	g Date:	July 12, 2023
Applicant/Owner:		Mississippi D	epartment of Transp	ortation	Sta	ate:	Mississippi Sample	Point:	DP10
Investigator(s):	Savannah R. Mor	ales a	ind Bettie Sho	pemaker	Section, Townsh	ip, Range:		S34, T7N, R2E	
Landform (hillslope, terrace	e, etc.):	De	pression/ Slough		Local relief (cor	ncave, convex, nor	ne): Concave	Slope (%):	0-5
Subregion (LRR or MLRA)		LF	RR P, MLRA 134		Lat:32	2.40227	Long: -90.0751	4 Datum:	NAD 83
Soil Map Unit Name:			Cascilla-Cal	houn associatio	n		NWI Classification:		PFO1A
Are climatic / hydrologic cc	nditions on the site t	ypical for this ti	ime of year?	aignificant	(Yes / No)	Yes	(if no, explain in Rema	rks.)	Y No
Are Vegetation	<u>No</u> ,soil	No or H	ydrology No	naturally r	aroblematic?	Are Normai Ci	needed explain any answ	res	
SUMMARY OF FIN	DINGS - Attacl	h site map	showing sam	pling point	locations. tra	ansects, imp	ortant features, etc		
	recent?	Vee	V No		1	,,	,	-	
Hydrophylic Vegetation P Hydric Soil Present?	Tesenti	Yes	<u>× No</u>		Is the Sample	d Area			
Wetland Hydrology Prese	ent?	Yes	<u>X No</u>		within a Wetla	and?	Yes X	No	
, , , ,							· · · · ·		
This point was deter	mined to be within a	wetland due to	the presence of all t	hree wetland cr	iteria.				
Wetland bydrology	Indicators:								·
Drimon / Indiantoro /r	minimum of one is rea	wired, check a	ll that apply)				Secondary Indicators (minimum of two req	uired)
Y Surface Wat	er (Δ1)	quired, crieck a	an triat appiy) Δαιια	tic Fauna (B13)			Sparsely Veget	acks (D0) ated Concave Surf	ace (B8)
High Water	Table (A2)		Marl I	Deposits (B15)	(LRR U)		Drainage Patte	rns (B10)	
X Saturation (A	A3)		Hydro	ogen Sulfide Od	or (C1)		Moss Trim Line	is (B16)	
Water Marks	s (B1)		Oxidi	zed Rhizospher	es on Living Roots	(C3)	Dry-Season W	ater Table (C2)	
Sediment De	eposits (B2)		Prese	ence of Reduced	d Iron (C4)		Crayfish Burrov	vs (C8)	
Drift Deposit	s (B3)		Rece	nt Iron Reductio	n in Tilled Soils (C	6)	Saturation Visil	ole on Aerial Imager	ry (C9)
Algal Mat or	Crust (B4)		Thin I	Muck Surface (C	27)		Geomorphic Po	osition (D2)	
Iron Deposits	s (B5)		Other	r (Explain in Rer	narks)		Shallow Aquita	rd (D3)	
Inundation V	isible on Aerial Image	ery (B7)					X FAC-Neutral Te	est (D5)	
Water-Staine	ed Leaves (B9)						Spragnum mos	SS (D8) (LKK 1, U)	
Field Observations:									
Surface Water Present?	Yes	X No		Depth (inches)): <u>6</u>	Wetland Hydr	ology Present?	Yes X	No
Water Table Present?	Yes	No	<u> </u>	Depth (inches)): <u>>16</u>				
Describe Recorded	Data (stream dauge	monitoring we	Il aerial photos prev	vious inspection	s) if available:				
Becombo Heotorada	Bata (of oann gaage,	inonitoring tro	n, aona priotoc, prot		o), il dianabio:				
Remarks:									
A positive indication	of wetland hydrology								
		was observed	d (at least one primar	ry indicator).					
	, ,,	was observed	d (at least one primar	ry indicator).					
SOIL		was observed	d (at least one primar	ry indicator).					
SOIL Profile Description	: (Describe to the c	lepth needed	d (at least one primar	ry indicator). Idicator or cont	firm the absence	of indicators.)			
SOIL Profile Description	: (Describe to the o Matrix	lepth needed	to document the in	ry indicator). Idicator or cont Redox Fr	firm the absence eatures	of indicators.)			
SOIL Profile Description Depth	: (Describe to the o Matrix Color (moist)	lepth needed	to document the in Color (moist)	ry indicator). Idicator or coni Redox Fi 	firm the absence eatures C	of indicators.)		Re	marks
SOIL Profile Description Depth (inches) 0-3 3-7	: (Describe to the o Matrix Color (moist) 10YR 4/1 10YR 2/1	lepth needed	to document the in Color (moist) 7.5YR 4/6 10YR 3/6	ry indicator). Idicator or cont Redox Fr <u>%</u> <u>80</u> 3	firm the absence eatures Type ¹ C	of indicators.) Loc ² M M	Texture Silt Loam	Re	marks
SOIL Profile Description Depth 0-3 3-7 7-16	: (Describe to the of Matrix Color (moist) 10'\R 4/1 10'\R 2/1 10\R 6/2	lepth needed 	t (at least one primar to document the in Color (moist) 7.5YR 4/6 10YR 3/6 10YR 5/6	ry indicator). Idicator or cont Redox Fr <u>%</u> <u>80</u> <u>3</u> 10	firm the absence eatures Type ¹ C C C	of indicators.) Loc ² M M M	Texture Silt Loam Silt Loam Silt Loam	Re Heavy organic m	marks
SOIL Profile Description Depth (inches) 0-3 3-7 7-16	: (Describe to the of Matrix Color (moist) 10YR 4/1 10YR 2/1 10YR 6/2	lepth needed <u>%</u> <u>20</u> 97 90	t (at least one primar to document the in Color (moist) 7.5YR 4/6 10YR 3/6 10YR 5/6	ry indicator). Idicator or conf Redox Fi <u>80</u> <u>3</u> 10	firm the absence eatures C C C C	of indicators.) Loc ² M M M	Texture Silt Loam Silt Loam Silt Loam	Re Heavy organic m	imarks natter
SOIL Profile Description Depth (inches) 0-3 3-7 7-16	: (Describe to the o Matrix Color (moist) 10YR 4/1 10YR 2/1 10YR 6/2	% 20 97 90	t (at least one primar to document the in Color (moist) 7.5YR 4/6 10YR 3/6 10YR 5/6	ry indicator). Idicator or conf Redox Fi <u>%</u> <u>80</u> <u>3</u> <u>10</u> 	firm the absence eatures <u>Type¹</u> C C C C	of indicators.)	Texture Silt Loam Silt Loam Silt Loam	Re Heavy organic m	marks
SOIL Profile Description Depth O-3 O-3 O-3 O-16 O-16 O-1 Type: C=Concentra	: (Describe to the of	lepth needed <u>%</u> 20 97 90 	t (at least one primar to document the in Color (moist) 7.5YR 4/6 10YR 3/6 10YR 5/6 Atrix, MS=Masked S	ry indicator). Idicator or conf Redox Fi <u>%</u> <u>80</u> <u>3</u> <u>10</u> <u></u> Sand Grains.	firm the absence eatures C C C C	of indicators.) <u>Loc²</u> <u>M</u> <u>M</u> <u>²Location:</u> PL=	Texture Silt Loam Silt Loam Silt Loam Silt Loam	Re Heavy organic m	marks
SOIL Profile Description Depth	: (Describe to the o Matrix Color (moist) 10YR 4/1 10YR 2/1 10YR 6/2 ation, D=Depletion, R tors: (Applicable to	lepth needed <u>%</u> 20 97 90 	t (at least one primar to document the in Color (moist) 7.5YR 4/6 10YR 3/6 10YR 5/6 Matrix, MS=Masked S less otherwise note	ry indicator). Idicator or conf Redox Fi <u>%</u> <u>80</u> <u>3</u> <u>10</u> <u>10</u> Sand Grains. ed.)	firm the absence eatures C C C C	of indicators.) <u>Loc²</u> <u>M</u> <u>M</u> <u>M</u> ² Location: PL=	Texture Silt Loam Silt Loam Silt Loam Silt Loam Pore Lining, M=Matrix.	Heavy organic m	marks natter
SOIL Profile Description Depth O-3 O-3 O-3 O-3 O-1 Type: C=Concentra Hydric Soils Indica Histosol (A1)	: (Describe to the or Matrix Color (moist) 10YR 4/1 10YR 2/1 10YR 6/2 ation, D=Depletion, R tors: (Applicable to	lepth needed <u>%</u> 20 97 90 <u>W=Reduced N</u> o all LRRs, un	t (at least one primar to document the in Color (moist) 7.5YR 4/6 10YR 3/6 10YR 5/6 Atrix, MS=Masked S less otherwise not Polyva	ry indicator). Idicator or coni Redox Fi <u>%</u> <u>80</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>3</u> <u>40</u> Sand Grains. ed.) Iue Below Surfa	firm the absence eatures C _	of indicators.) <u>Loc²</u> <u>M</u> <u>M</u> ² Location: PL=	Texture Silt Loam Silt Loam Silt Loam Silt Loam Indicators for Problee 1 cm Muck (A9)	Heavy organic m	marks natter 3.
SOIL Profile Description Depth O-3 O-3 O-3 O-3 O-3 O-1 O-1 O-1 O-1 O-3 O-1 O-3	: (Describe to the or Matrix Color (moist) 10YR 4/1 10YR 2/1 10YR 6/2 ation, D=Depletion, R tors: (Applicable to on (A2)	lepth needed <u>%</u> <u>20</u> <u>97</u> <u>90</u> <u>W=Reduced N</u> o all LRRs, un	to document the in Color (moist) 7.5YR 4/6 10YR 3/6 10YR 5/6 Matrix, MS=Masked S less otherwise not Polyva Polyva Thin D	ry indicator). Idicator or coni Redox Fi <u>%</u> <u>80</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>3</u> <u>40</u> Sand Grains. ed.) Iulue Below Surfa ark Surface (S9)	firm the absence eatures C C C C C	of indicators.) <u>Loc²</u> <u>M</u> <u>M</u> ² Location: PL=	Texture Silt Loam Silt Loam Silt Loam Silt Loam It Loam It Loam It Loam It Loam It Loam It Communicators for Problem It Com Muck (A9) Cam Muck (A9) Cam Muck (A10) Reduced Vortio	Re Heavy organic m matic Hydric Soils (LRR O)) (LRR S)	marks
SOIL Profile Description Depth O-3 O-3 O-3 O-3 O-7-16 O Type: C=Concentra Hydric Soils Indicae Histic Epipedo Black Histic (/ Histroc Pisto	: (Describe to the o Matrix Color (moist) 10YR 4/1 10YR 2/1 10YR 6/2 ation, D=Depletion, R ttors: (Applicable to on (A2) A3) file (A1)	lepth needed <u>%</u> 20 97 90 <u>W=Reduced N</u> o all LRRs, un	f (at least one primar to document the in Color (moist) 7.5YR 4/6 10YR 3/6 10YR 5/6 Atrix, MS=Masked S less otherwise not Polyva Polyva Loamy Loamy	Adicator or coni Redox Fi <u>%</u> <u>80</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>1</u>	firm the absence eatures C _C	of indicators.) <u>Loc²</u> <u>M</u> <u>M</u> ² Location: PL=	Texture Silt Loam Silt Loam Silt Loam Silt Loam It Loam It Loam It Loam It Loam It Communicators for Problem It cm Muck (A9) I	Re Heavy organic m matic Hydric Soils (LRR O)) (LRR S) (F18) (outside MLI Jain Soils (F19) (LR	marks natter a: RA 150A,B)
SOIL Profile Description Depth O-3	: (Describe to the o	lepth needed <u>%</u> 20 97 90 <u>W=Reduced N</u> o all LRRs, un	to document the in Color (moist) 7.5YR 4/6 10YR 3/6 10YR 5/6 Atrix, MS=Masked S Iess otherwise not Polyva Doubles Loamy Loamy X Doeplet	ry indicator). Redox Fi <u>%</u> <u>80</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>10</u> <u>3</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u>	firm the absence eatures C _C	of indicators.) <u>Loc²</u> <u>M</u> <u>M</u> <u>2</u> Location: PL=	Texture Silt Loam Silt Loam Silt Loam Silt Loam It Comparison for Problem It Comparison for Code Anomalous Bridi Anomalous Bridi	Re Heavy organic m matic Hydric Soils (LRR O)) (LRR S) (F18) (outside MLI Jain Soils (F19) (LF	nartes natter 3: RA 150A,B) RR P, S, T)
SOIL Profile Description Depth O-3	: (Describe to the o	lepth needed <u>%</u> <u>20</u> <u>97</u> <u>90</u> <u>W=Reduced N</u> o all LRRs, un	to document the in Color (moist) 7.5YR 4/6 10YR 3/6 10YR 5/6 Atrix, MS=Masked S Iss otherwise not Polyva Doamy Loamy Loamy X Deplet X Redox	Addicator or cond Redox Fi <u>%</u> <u>80</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>3</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>1</u>	firm the absence eatures C _C	of indicators.) Loc ² M M M 2Location: PL= , U)	Texture Silt Loam Silt Loam Silt Loam Silt Loam Indicators for Problet 1 cm Muck (A9) 2 cm Muck (A10) Reduced Vertic Piedmont Flood; Anomalous Brigt (MLRA 153B)	Re Heavy organic m matic Hydric Soils (LRR O)) (LRR S) (F18) (outside MLI Jain Soils (F19) (LF tt Loamy Soils (F20)	nmarks hatter 3: RA 150A,B) RR P, S, T)
SOIL Profile Description Depth O-3	: (Describe to the of Matrix Color (moist) 10YR 4/1 10YR 2/1 10YR 6/2 ation, D=Depletion, R tors: (Applicable to on (A2) A3) fide (A4) rs (A5) ss (A6) (LRR P, T, U) dineral (A7) (LRR P, T, U)	lepth needed % 20 97 90 	to document the in Color (moist) 7.5YR 4/6 10YR 3/6 10YR 5/6 10YR 5/6 IoYR 5/6 IoYR 5/6 IoYR 5/6 Loary Loary Loary X Deplet X Redox Deplet	And Grains.	firm the absence eatures 	of indicators.) <u>Loc²</u> <u>M</u> <u>M</u> <u>2</u> Location: PL=	Texture Silt Loam Silt Loam Silt Loam Silt Loam Indicators for Problet 1 cm Muck (A9) 2 cm Muck (A10) Reduced Vertic Piedmont Flood; Anomalous Brigt (MLRA 153B) Red Parent Mate	Re Heavy organic m matic Hydric Soils (LRR O)) (LRR S) (F18) (outside MLI vain Soils (F19) (LF rt Loamy Soils (F20 erial (TF2)	marks hatter 3: RA 150A,B) RR P, S, T)
SOIL Profile Description Depth O-3	: (Describe to the of Matrix Color (moist) 10YR 4/1 10YR 2/1 10YR 6/2 ation, D=Depletion, R tors: (Applicable to on (A2) A3) fide (A4) rs (A5) ss (A6) (LRR P, T, U) dineral (A7) (LRR P, ce (A8) (LRR U)	iepth needed <u>%</u> <u>20</u> <u>97</u> <u>90</u> <u>W=Reduced N</u> o all LRRs, un	to document the in Color (moist) 7.5YR 4/6 10YR 3/6 10YR 5/6 Atrix, MS=Masked S Iss otherwise not Polyva Thin D Loamy Loamy X Deplet X Redox Deplet _Redox	An and a second	firm the absence eatures Type ¹ C C C C (C (C) (C) (C) (C) (C	of indicators.) <u>Loc²</u> <u>M</u> <u>M</u> ² Location: PL=	Texture Silt Loam Silt Loam Silt Loam Silt Loam Indicators for Problet 1 cm Muck (A9) 2 cm Muck (A10) Reduced Vertic Piedmont Flood Anomalous Brigt (MLRA 153B) Red Parent Mate Very Shallow Da	Re Heavy organic m Heavy organic m (LRR 0) (LRR 0) (LRR S) (F18) (outside MLI valain Soils (F19) (LF (F18) (outside MLI valain Soils (F19) (LF erial (TF2) rk Surface (TF12)	marks hatter 3: RA 150A,B) RR P, S, T)
SOIL Profile Description Depth O-3	: (Describe to the of Matrix Color (moist) 10YR 4/1 10YR 2/1 10YR 6/2 ation, D=Depletion, R tors: (Applicable to on (A2) A3) fide (A4) rsr (A5) ss (A6) (LRR P, T, U) dineral (A7) (LRR P, ce (A8) (LRR U) 9) (LRR P, T)	lepth needed <u>%</u> <u>20</u> <u>97</u> <u>90</u> <u>W=Reduced N</u> o all LRRs, un	f (at least one primar to document the in Color (moist) 7.5YR 4/6 10YR 3/6 10YR 5/6 Atrix, MS=Masked S less otherwise not Polyva Polyva Loamy Loamy X Deplet X Redox Deplet Marl (F	ry indicator or cont Redox Fi 80 3 10 10 3 10 10 10 10 10 10 10 10 10 10	firm the absence eatures C _	of indicators.) <u>Loc²</u> M M ² Location: PL=	Texture Silt Loam Silt Loam Silt Loam Silt Loam Indicators for Probled Communications for Probled Comm	Re Heavy organic m Heavy organic m (LRR 0) (LRR S) (F18) (outside MLI Jain Soils (F19) (LF th Loamy Soils (F20 erial (TF2) rk Surface (TF12) n Remarks)	marks natter 3: RA 150A,B) RR P, S, T)
SOIL Profile Description Depth O-3	: (Describe to the of Matrix Color (moist) 10YR 4/1 10YR 2/1 10YR 6/2 ation, D=Depletion, R tors: (Applicable to on (A2) A3) fide (A4) ers (A5) es (A6) (LRR P, T, U) dineral (A7) (LRR P, ze (A8) (LRR U) 9) (LRR P, T) wo Dark Surface (A11	iepth needed <u>%</u> <u>20</u> <u>97</u> <u>90</u> <u>30</u> <u>31</u> <u>31</u> <u>31</u> <u>32</u> <u>32</u> <u>33</u> <u>34</u> <u>34</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u>	f (at least one primar to document the in Color (moist) 7.5YR 4/6 10YR 3/6 10YR 5/6 less otherwise not Atrix, MS=Masked S less otherwise not Loamy X Deplet X Redox Deplet Marl (F Deplet	ry indicator). Redox Fi Redox Fi 80 3 10 10 30 10 60 80 90 80 90 80 90 80 90 90 90 90 90 90 90 90 90 9	Firm the absence eatures 	of indicators.)	Texture Silt Loam Silt Loam Silt Loam Silt Loam The second	Re Heavy organic m matic Hydric Soils (LRR O) (LRR S) (F18) (outside MLI Jain Soils (F19) (LF nt Loamy Soils (F20 erial (TF2) rk Surface (TF12) n Remarks)	marks natter 3: RA 150A,B) RR P, S, T)
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SOIL Profile Description Depth O-3	: (Describe to the of Matrix Color (moist) 10YR 4/1 10YR 2/1 10YR 6/2 dation, D=Depletion, F tors: (Applicable to on (A2) A3) fide (A4) ers (A5) es (A6) (LRR P, T, U) direral (A7) (LRR P, T, U) direral (A7) (LRR P, T, U) wo Dark Surface (A11 urface (A12) Redox (A16) (MLRA Mineral (S1) (LRR O	(Was observed lepth needed <u>97</u> 90 97 90 90 97 90 90 97 90 90 90 90 90 90 90 90 90 90	to document the in Color (moist) 7.5YR 4/6 10YR 3/6 10YR 3/6 10YR 5/6 Matrix, MS=Masked S less otherwise note Polyva Thin D Loamy Loamy X Deplet X Redox Marl (F Deplet Iron-M Umbric Detta C Detta	ry indicator). Redox Fr Redox Fr 80 3 10 3 10 3 10 3 3 10 3 40 5 6 6 6 10 10 5 6 6 10 10 10 10 10 10 10 10 10 10	firm the absence eatures 	of indicators.) <u>Loc²</u> <u>M</u> <u>M</u> <u>2</u> Location: PL=	Texture Silt Loam Silt Loam Silt Loam Silt Loam District Loam District Loam Silt Loam District Loam District Loam District Load Comparison of the second sec	Reavy organic m Heavy organic m matic Hydric Soils (LRR O)) (LRR S) (F18) (outside MLI blain Soils (F19) (LF nt Loamy Soils (F20 erial (TF2) rk Surface (TF12) n Remarks) hydrophytic vegeta st be present, unles	marks hatter atter 3: RA 150A,B) RR P, S, T))) tion and wetland as disturbed or
SOIL Profile Description Depth O-3	: (Describe to the of Matrix Color (moist) 10YR 4/1 10YR 2/1 10YR 6/2 ation, D=Depletion, F tors: (Applicable to on (A2) A3) fide (A4) ers (A5) es (A6) (LRR P, T, U) direral (A7) (LRR P, T, U) direral (A7) (LRR P, T, U) wincral (A7) (LRR P, T, U) wo Dark Surface (A11 urface (A12) Redox (A16) (MLRA Mineral (S1) (LRR O 4 Matrix (S4) (S5)	(Was observed lepth needed <u>%</u> <u>20</u> <u>97</u> <u>90</u> 	to document the in Color (moist) 7.5YR 4/6 10YR 3/6 10YR 3/6 10YR 5/6 Matrix, MS=Masked S less otherwise not Polyva Thin D Loamy Loamy X Deplet X Redox Deplet Redox Marl (F Deplet Iron-M Umbric Detta C Reduc Piadrms	ry indicator). Redox Fr Redox Fr 80 3 10 3 10 3 10 3 3 10 3 40 5 Sand Grains. ed.) Ilue Below Surfa ark Surface (S9 Mucky Mineral Gleyed Matrix (F3) Dark Surface (F3) Dark Surface (F3) Dark Surface (F1) anganese Mass c Surface (F17) (MI ed Vertic (F18) Obchric (F17) (MI	firm the absence eatures 	of indicators.) <u>Loc²</u> <u>M</u> <u>M</u> <u>2</u> Location: PL=	Texture Silt Loam Silt Loam Silt Loam Silt Loam District Loam Town MeMatrix. Indicators for Problem 1 cm Muck (A9) 2 cm Muck (A10) Reduced Vertic Piedmont Floodg Anomalous Brigl (MLRA 153B) Red Parent Mate Very Shallow Da Other (Explain ir ³ Indicators of hydrology mu problematic.	Reavy organic m Heavy organic m matic Hydric Soils (LRR O)) (LRR S) (F18) (outside MLI blain Soils (F19) (LF nt Loamy Soils (F20 erial (TF2) rk Surface (TF12) rk Surface (TF12) r Remarks) hydrophytic vegeta st be present, unles	marks hatter atter 3: RA 150A,B) RR P, S, T))) tion and wetland ss disturbed or
SOIL Profile Description Depth O-3	: (Describe to the of Matrix Color (moist) 10YR 4/1 10YR 2/1 10YR 6/2 ation, D=Depletion, F tors: (Applicable to on (A2) A3) fide (A4) ers (A5) es (A6) (LRR P, T, U) Mineral (A7) (LRR P,	was observed lepth needed	to document the in Color (moist) 7.5YR 4/6 10YR 3/6 10YR 5/6 Matrix, MS=Masked S less otherwise note Polyva Thin D Loamy X Deplet X Redox Deplet Redox Marl (F Deplet Iron-M Combrid Deplet Redox Marl (F Deplet Nard Redox Marl (F Nard Redox Nard (F Nard Nard Nard Nard Nard Nard Nard Nar	ry indicator). Redox Fr Redox Fr 80 3 10 10 3 10 3 10 3 40 5 5 5 5 5 5 5 5 10 10 5 5 5 5 5 5 5 5 5 5 5 5 5	firm the absence satures 	of indicators.) <u>Loc²</u> <u>M</u> <u>M</u> <u>2</u> Location: PL= , U) P, T) B) 149A) _RA 149A, 153C	Texture Silt Loam Silt Loam Silt Loam Silt Loam Pore Lining, M=Matrix. Indicators for Proble 1 cm Muck (A9) 2 cm Muck (A10 Reduced Vertic Piedmont Flood Anomalous Brigl (MLRA 153B) Red Parent Mate Very Shallow Da Other (Explain ir ³ Indicators of hydrology mu problematic.	Re Heavy organic m matic Hydric Soils (LRR O) (LRR S) (F18) (outside MLI blain Soils (F19) (LF nt Loamy Soils (F20 arial (TF2) rk Surface (TF12) r Remarks) hydrophytic vegeta st be present, unles	marks hatter atter a. RR 150A,B) RR P, S, T))) ation and wetland ss disturbed or
SOIL Profile Description Depth O-3	: (Describe to the of Matrix Color (moist) 10YR 4/1 10YR 2/1 10YR 6/2 ation, D=Depletion, F tors: (Applicable to on (A2) A3) fide (A4) ers (A5) es (A6) (LRR P, T, U) Mineral (A7) (LRR P, T, U) Mineral (A7) (LRR P, T, U) w Dark Surface (A11 urface (A12) Redox (A16) (MLRA Mineral (S1) (LRR O Hatrix (S4) (S5) ix (S6) (S7) (LRR P, S, T, U	(Was observed lepth needed <u>%</u> <u>20</u> <u>97</u> <u>90</u> 	to document the in Color (moist) 7.5YR 4/6 10YR 3/6 10YR 3/6 10YR 5/6 Matrix, MS=Masked S less otherwise not Polyva Thin D Loamy Loamy X Deplet X Redox Deplet Redox Marl (F Deplet Iron-M Umbric Delta C Reduc Piedm Anome	ry indicator). Redox Fr Redox Fr 80 3 10 10 3 10 3 10 3 10 3 3 10 3 3 10 3 3 10 3 3 10 3 10 10 10 10 10 10 10 10 10 10	firm the absence satures C	of indicators.) <u>Loc²</u> <u>M</u> <u>M</u> <u>2</u> Location: PL= , U) , P, T) B) 149A) _RA 149A, 153C, 4	Texture Silt Loam Silt Loam Silt Loam Silt Loam Pore Lining, M=Matrix. Indicators for Proble 1 cm Muck (A9) 2 cm Muck (A10 Reduced Vertic Piedmont Floodµ Anomalous Brigl (MLRA 153B) Red Parent Mate Very Shallow Da Other (Explain ir ³ Indicators of hydrology mu problematic.	Re Heavy organic m heavy organic m matic Hydric Soils (LRR O) (LRR S) (F18) (outside MLI blain Soils (F19) (LF nt Loamy Soils (F20 arial (TF2) rk Surface (TF12) rk Surface (TF12) rk Surface (TF12) hydrophytic vegeta st be present, unles	marks hatter atter 3. RA 150A,B) RR P, S, T))) ation and wetland ss disturbed or
SOIL Profile Description Depth O-3	: (Describe to the of Matrix Color (moist) 10YR 4/1 10YR 2/1 10YR 6/2 ation, D=Depletion, F tors: (Applicable to on (A2) A3) fide (A4) ers (A5) es (A6) (LRR P, T, U) Mineral (A7) (LRR P, T, U) Mineral (A7) (LRR P, T, U) Mineral (A7) (LRR P, T, U) W Dark Surface (A11 urface (A12) Redox (A16) (MLRA Mineral (S1) (LRR O Hatrix (S4) (S5) ix (S6) (S7) (LRR P, S, T, U if observed): }	<pre>// was observed // iepth needed // 20 // 97 // 90 // 90</pre>	to document the in Color (moist) 7.5YR 4/6 10YR 3/6 10YR 3/6 10YR 5/6 Matrix, MS=Masked S less otherwise not Polyva Thin D Loamy X Deplet X Redox Deplet Redox Marl (F Deplet Iron-M Umbric Delta C Reduc Piedm Anome	ry indicator). Redox Fr 	firm the absence satures C	of indicators.) <u>Loc²</u> <u>M</u> <u>M</u> <u>2</u> Location: PL= , U) , P, T) B) 149A, 153C, 4	Texture Silt Loam Silt Loam Silt Loam Silt Loam Pore Lining, M=Matrix. Indicators for Proble 1 cm Muck (A9) 2 cm Muck (A10 Reduced Vertic Piedmont Flood Anomalous Brigl (MLRA 153B) Red Parent Mate Very Shallow Da Other (Explain ir ³ Indicators of hydrology mu problematic.	Re Heavy organic m heavy organic m matic Hydric Soils (LRR O) (LRR O) (ILRR S) (F18) (outside MLI blain Soils (F19) (LF nt Loamy Soils (F20 arial (TF2) rk Surface (TF12) rk Surface (TF12) rk Surface (TF12) hydrophytic vegeta st be present, unles	marks hatter atter 3. RA 150A,B) RR P, S, T))) tion and wetland ss disturbed or
SOIL Profile Description Depth O-3	: (Describe to the of Matrix Color (moist) 10YR 4/1 10YR 2/1 10YR 6/2 ation, D=Depletion, F tors: (Applicable to on (A2) A3) fide (A4) ars (A5) es (A6) (LRR P, T, U) Mineral (A7) (LRR P, T, U) Mineral (A12) Redox (A16) (MLRA Mineral (S1) (LRR O 4 Matrix (S4) (S5) ix (S6) (S7) (LRR P, S, T, U) f observed):	(Was observed lepth needed <u>%</u> <u>20</u> <u>97</u> <u>90</u> 	to document the in Color (moist) 7.5YR 4/6 10YR 3/6 10YR 3/6 10YR 5/6 Matrix, MS=Masked S less otherwise not Polyva Thin D Loamy X Deplet X Redox Deplet Redox Marl (F Deplet Iron-M Umbric Delta C Reduc Piedm Anoma	ry indicator). Redox Fr Redox Fr 80 3 10 10 3 10 3 10 3 10 3 10 10 20 80 90 90 90 90 90 90 90 90 90 9	firm the absence <u>satures</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u>	of indicators.) <u>Loc²</u> <u>M</u> <u>M</u> <u>2</u> Location: PL= , U) , P, T) B) 149A) _RA 149A, 153C, 4	Texture Silt Loam Silt Loam Silt Loam Silt Loam Pore Lining, M=Matrix. Indicators for Problee 1 cm Muck (A9) 2 cm Muck (A10 Reduced Vertic Piedmont Flood; Anomalous Brigl (MLRA 153B) Red Parent Mate Very Shallow Da Other (Explain ir ³ Indicators of hydrology mu problematic.	Re Heavy organic m heavy organic m matic Hydric Soils (LRR O) (LRR S) (F18) (outside MLI blain Soils (F19) (LF nt Loamy Soils (F20 erial (TF2) rk Surface (TF12) hydrophytic vegeta st be present, unles	marks hatter atter 3. RA 150A,B) RR P, S, T))) ation and wetland ss disturbed or
SOIL Profile Description Depth O-3	: (Describe to the of Matrix Color (moist) 10YR 4/1 10YR 2/1 10YR 6/2 ation, D=Depletion, F tors: (Applicable to on (A2) A3) fide (A4) ars (A5) as (A6) (LRR P, T, U) fineral (A7) (LRR P, T, U) Mineral (A7) (LRR P, T, U) Mineral (A7) (LRR P, T, U) 9) (LRR P, T, U) 9) (LRR P, T, U) 9) (LRR P, T, U) 9) (LRR P, T, U) Mineral (S1) (LRR C Mineral (S1) (LRR C Matrix (S4) (S5) ix (S6) (S7) (LRR P, S, T, U) f observed): =============================	<pre>// was observed // iepth needed // 20 // 97 // 90 // 90</pre>	to document the in Color (moist) 7.5YR 4/6 10YR 3/6 10YR 3/6 10YR 5/6 Matrix, MS=Masked S less otherwise not Polyva Thin D Loamy Loamy X Deplet X Redox Deplet Redox Marl (F Deplet Redox Redox Anoma	ry indicator). Redox Fr Redox Fr 80 3 10 10 20 80 3 10 90 80 80 90 80 80 90 80 80 90 80 80 90 80 80 90 80 80 90 80 80 90 80 80 90 80 80 90 80 80 90 80 80 90 90 80 80 90 90 80 80 90 90 80 80 90 90 80 80 90 90 80 80 90 90 80 80 90 90 80 80 90 90 80 80 80 90 90 80 80 80 80 80 80 80 80 80 8	firm the absence atures	of indicators.) <u>Loc²</u> <u>M</u> <u>M</u> <u>2</u> Location: PL= , U) P, T) B) 149A) _RA 149A, 153C, - Hydd	Texture Sitt Loam Sitt Loam Sitt Loam Sitt Loam Pore Lining, M=Matrix. Indicators for Proble 1 cm Muck (A9) 2 cm Muck (A10) Reduced Vertic Piedmont Flood; Anomalous Brigl (MLRA 153B) Red Parent Mate Very Shallow Da Other (Explain in "3Indicators of hydrology mu problematic.	Reavy organic m Heavy organic m matic Hydric Soils (LRR O) (LRR S) (F18) (outside MLI blain Soils (F19) (LF nt Loamy Soils (F20 erial (TF2) rk Surface (TF12) i Remarks) hydrophytic vegeta st be present, unless	marks
SOIL Profile Description Depth O-3	: (Describe to the of Matrix Color (moist) 10YR 4/1 10YR 2/1 10YR 6/2 ation, D=Depletion, F tors: (Applicable to on (A2) A3) fide (A4) ars (A5) as (A6) (LRR P, T, U) fideral (A7) (LRR P, T, U) 9) (LRR P, T) wy Dark Surface (A11 urface (A12) Redox (A16) (MLRA Mineral (S1) (LRR C ix (S6) (S7) (LRR P, S, T, U if observed): =================================	(Was observed lepth needed <u>%</u> <u>20</u> <u>97</u> <u>90</u> 	to document the in Color (moist) 7.5YR 4/6 10YR 3/6 10YR 5/6 Matrix, MS=Masked S less otherwise not Polyva Thin D Loamy Loamy X Deplet X Redox Deplet Redox Marl (F Deplet Iron-M Umbric Detta O Reduc Piedma	ry indicator).	firm the absence atures C <td>of indicators.) <u>Loc²</u> <u>M</u> <u>M</u> <u>2</u>Location: PL= , U) P, T) B) 149A) _RA 149A, 153C, - Hyd</td> <td>Texture Silt Loam Silt Loam Silt Loam Silt Loam Pore Lining, M=Matrix. Indicators for Proble 1 cm Muck (A9) 2 cm Muck (A10) Reduced Vertic Piedmont Flood; Anomalous Brigl (MLRA 153B) Red Parent Mate Very Shallow Da Other (Explain in "Indicators of hydrology mu problematic.</td> <td>Reavy organic m Heavy organic m matic Hydric Soils (LRR O) (LRR S) (F18) (outside MLI blain Soils (F19) (LF nt Loamy Soils (F20 erial (TF2) rk Surface (TF12) in Remarks) hydrophytic vegeta st be present, unless</td> <td>marks</td>	of indicators.) <u>Loc²</u> <u>M</u> <u>M</u> <u>2</u> Location: PL= , U) P, T) B) 149A) _RA 149A, 153C, - Hyd	Texture Silt Loam Silt Loam Silt Loam Silt Loam Pore Lining, M=Matrix. Indicators for Proble 1 cm Muck (A9) 2 cm Muck (A10) Reduced Vertic Piedmont Flood; Anomalous Brigl (MLRA 153B) Red Parent Mate Very Shallow Da Other (Explain in "Indicators of hydrology mu problematic.	Reavy organic m Heavy organic m matic Hydric Soils (LRR O) (LRR S) (F18) (outside MLI blain Soils (F19) (LF nt Loamy Soils (F20 erial (TF2) rk Surface (TF12) in Remarks) hydrophytic vegeta st be present, unless	marks
SOIL Profile Description Depth O-3	: (Describe to the of	(Was observed lepth needed <u>%</u> <u>20</u> <u>97</u> <u>90</u> 	to document the in Color (moist) 7.5YR 4/6 10YR 3/6 10YR 5/6 Matrix, MS=Masked S less otherwise not Polyva Thin D Loamy Loamy X Deplet Redox Marl (F Deplet Iron-M Umbric Detta C Reduc Piedma Anoma	ry indicator). Idicator or com Redox Fi 80 3 10 3 10 3 10 3 Sand Grains. ad.) Iulue Below Surfa ark Surface (S9 Mucky Mineral Gleyed Matrix (F3) Dark Surface (f ed Dark Surface (f ed Dark Surface (f ed Dark Surface (f for (F10) (LRR U) ed Ochric (F17) (MI ed Vertic (F18) Dont Floodplain S alous Bright Loa	firm the absence atures C <td>of indicators.)</td> <td>Texture Silt Loam Silt Loam Silt Loam Silt Loam Pore Lining, M=Matrix. Indicators for Proble 1 cm Muck (A9) 2 cm Muck (A10) Reduced Vertic Piedmont Flood; Anomalous Brigl (MLRA 153B) Red Parent Mate Very Shallow Da Other (Explain in "3Indicators of hydrology mu problematic.</td> <td>Re Heavy organic m matic Hydric Soils (LRR O) (LRR S) (F18) (outside MLI blain Soils (F19) (LF nt Loamy Soils (F20 erial (TF2) rk Surface (TF12) n Remarks) hydrophytic vegeta st be present, unless</td> <td>marks</td>	of indicators.)	Texture Silt Loam Silt Loam Silt Loam Silt Loam Pore Lining, M=Matrix. Indicators for Proble 1 cm Muck (A9) 2 cm Muck (A10) Reduced Vertic Piedmont Flood; Anomalous Brigl (MLRA 153B) Red Parent Mate Very Shallow Da Other (Explain in "3Indicators of hydrology mu problematic.	Re Heavy organic m matic Hydric Soils (LRR O) (LRR S) (F18) (outside MLI blain Soils (F19) (LF nt Loamy Soils (F20 erial (TF2) rk Surface (TF12) n Remarks) hydrophytic vegeta st be present, unless	marks

	Absolute % cover	Dominant Species	Indicator Status	Dominance Test worksheet:
ree Stratum (Plot size: <u>30 ft.</u>)				Number of Dominant Species
Nyssa aquatica	70	Yes	OBL	That Are OBL, FACW, or FAC: 4 (A)
Taxodium distichum	15	No	OBL	
·		<u> </u>		Total Number of Dominant
		<u> </u>		Species Across All Strata: 4 (B)
		<u> </u>		
·		<u> </u>		Percent of Dominant Species
	85=	= Total Cover		That Are OBL, FACW, or FAC: 100% (A/E
50% of total cover	r: 42.5	20% of total cover:	17	
				Prevalence Index Worksheet:
apling Stratum (Plot size: <u>30 ft.</u>)	-	X	540	
l riadica sebifera	5	Yes	FAC	Iotal % Cover of: Multiply by:
		·		OBL species 113 x 1 = 113
		<u> </u>		FACW species $0 x^2 = 0$
		·		FAC species 13 x 3 = 39
		<u> </u>		FACU species 0 x 4 = 0
				UPL species 0 x 5 = 0
	<u> </u>	= Iotal Cover	4	Column Totals: <u>126</u> (A) <u>152</u>
50% of total cover	1: 2.5	20% of total cover:	1	
nub Stratum (Plot size: 30 ft)				Prevalence Index = B/A = 1.21
Triadica sebifera	5	Yes	FAC	
			1710	Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				2 Dominance Test is >50%
				\mathbf{X} 2 - Dominance results > 50 %
·		·		Λ 3 - Field effice index is ≥ 3.0
		= Total Cover		
50% of total cover		20% of total cover:	1	¹ Indicators of hydric soil and wetland hydrology must
		2010 01 10101 00101.	<u> </u>	be present unless disturbed or problematic
erb Stratum (Plot size: 30 ft.)				
Saururus cernuus	25		OBI	Definitions of Five Vegetation Strata:
Triadica sebifera		Yes	ODL	
	3	Yes No	FAC	
Persicaria hydropiperoides	3	<u>Yes</u> <u>No</u> <u>No</u>	FAC	Tree - Woody plants, excluding woody vines,
Persicaria hydropiperoides	3	Yes No No	FAC OBL	Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in.
Persicaria hydropiperoides	<u>3</u> <u>3</u>	<u>Yes</u> <u>No</u> <u>No</u>	FAC OBL	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).
Persicaria hydropiperoides	<u>3</u> <u>3</u>	<u>Yes</u> <u>No</u> 	FAC OBL	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).
Persicaria hydropiperoides	<u>3</u> <u>3</u> 	Yes No No	FAC OBL	 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,
Persicaria hydropiperoides	<u>3</u> <u>3</u>	Yes No No	FAC OBL	 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
Persicaria hydropiperoides	<u>3</u> <u>3</u> 	Yes No No	FAC OBL	 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.
. Persicaria hydropiperoides	<u>3</u> <u>3</u> 	Yes No No	FAC OBL	 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.
_ Persicaria hydropiperoides	<u>3</u> <u>3</u> 	Yes No No	FAC OBL	 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,
Persicaria hydropiperoides	3 3 	Yes No No No	OBL OBL	 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.
Persicaria hydropiperoides	<u>3</u> <u>3</u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>	Yes No No 	6.2	 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.
Persicaria hydropiperoides	<u>3</u> <u>3</u> <u></u> <u></u> <u>31</u> =	Yes No No	6.2	 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
Persicaria hydropiperoides	<u>3</u> <u>3</u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>	Yes No No Total Cover 20% of total cover:	6.2	 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
Persicaria hydropiperoides	<u>3</u> <u>3</u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>	Ves No No Total Cover 20% of total cover:	6.2	 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
Persicaria hydropiperoides	<u>3</u> <u>3</u> <u></u> <u></u> <u></u> <u></u> <u>31</u> =	 	6.2	 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.
Persicaria hydropiperoides	<u>3</u> <u>3</u> <u></u> <u></u> <u></u> <u></u> <u>31</u> = <u></u> <u></u>	Yes No No No	6.2	 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.
. Persicaria hydropiperoides	<u>3</u> <u>3</u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>	Yes No No = Total Cover 20% of total cover: 	6.2	 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.
Persicaria hydropiperoides	<u>3</u> <u>3</u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>	Yes No No No	6.2	 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.
Persicaria hydropiperoides	<u>3</u> <u>3</u> <u>3</u> <u>3</u> <u>3</u> <u>3</u> <u>3</u> <u>3</u> <u>3</u> <u>3</u>	Yes No No No Total Cover 20% of total cover:	6.2	 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
Persicaria hydropiperoides	<u>3</u> <u>3</u> <u>3</u> <u>3</u> <u>3</u> <u>3</u> <u>3</u> <u>3</u> <u>3</u> <u>3</u>	Yes No No No No State Total Cover 20% of total cover:	6.2	 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
3. Persicaria hydropiperoides 4. 5. 5. 6. 7.	3 3 	Yes No Station No Total Cover 20% of total cover:	6.2	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 X
Persicaria hydropiperoides	3 3 	Yes No Station No Station No Station No Station No No	6.2	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 20 tt (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 No



Location: Jackson, Madison	5 80 210 SW	240 210	300 NW	330
County, MS	Q 270°W	(T) • 32.402316, -90.0)75166 ±3 m ▲ 56	m
Photo No: 20				1 marie
Date: 07/12/2023				de la compañía de la
Description: Wetland determination				
Data Point 10 looking west.	and the second			
	DP10	2 P North	Bob Ant 07-12-202	hony Parkway 3, 9:37:34 AM

Project/Site:	Bob Ar	nthony Parkv	way Relocation		County:	Madison	Sampling	g Date:	July 12, 2023
Applicant/Owner:		Mississipp	oi Department of ⁻	Fransportation	St	ate:	Mississippi Sample	Point:	DP11
Investigator(s):	Savannah R. Mo	orales	and Be	ttie Shoemaker	Section, Townsh	iip, Range:		S34, T7N, R2E	
Landform (hillslope, terrad	ce, etc.):		Hillslope		Local relief (co	ncave, convex, no	ne): Linear Slope	Slope (%):	5-10
Subregion (LRR or MLRA	.):		LRR P, MLRA 1	34	Lat: 3	2.40225	Long: -90.0750	2 Datum:	NAD 83
Soil Map Unit Name:			Casc	illa-Calhoun associa	tion		NWI Classification:		PFO1A
Are climatic / hydrologic c	onditions on the site	typical for th	his time of year?	Na singifia	(Yes / No)	Yes	(if no, explain in Rema	rks.)	Y Na
Are Vegetation	<u>No</u> ,Soil	,0 ,0	or Hydrology	No significa	antiy disturbed?	Are Normai C	freeded explain any answ	res	
	NO ,301	h site m	an showing	sampling noir	t locations tr	ansects imn	ortant features etc		
			up showing					•	
Hydrophytic Vegetation I	Present?	Yes	X		le the Semal	d Area			
Wetland Hydrology Pres	ont?	Ves			within a Wet	and?	Vas	No	Y
Weiland Hydrology Fres	ent?	165			within a wet	anu:	165		<u> </u>
Remarks: This point was dete	rmined not to be with	in a wetland	due to the lack of	of hydric soils and we	etland hydrology.				
HYDROLOGY									
Wetland hydrolog	y Indicators:						Secondary Indicators (minimum of two rea	uired)
Primary Indicators (minimum of one is re	equired; cheo	ck all that apply)				Surface Soil Cr	acks (B6)	,
Surface Wa	iter (A1)			Aquatic Fauna (B1	3)		Sparsely Veget	ated Concave Surf	ace (B8)
High Water	Table (A2)			Marl Deposits (B15	5) (LRR U)		Drainage Patte	rns (B10)	
Saturation (A3)			Hydrogen Sulfide (Ddor (C1)		Moss Trim Line	s (B16)	
Water Mark	s (B1)			Oxidized Rhizosph	eres on Living Roots	s(C3)	Dry-Season W	ater Table (C2)	
Sediment D	eposits (B2)			Presence of Reduc	ced Iron (C4)		Crayfish Burrov	vs (C8)	
Drift Deposi	its (B3)			Recent Iron Reduc	tion in Tilled Soils (C	6)	Saturation Visit	ole on Aerial Imager	ry (C9)
Algal Mat or	r Crust (B4)			Thin Muck Surface	(C7)		Geomorphic Po	osition (D2)	
Iron Deposition	(isible on Asriel Imag	on (P7)		Other (Explain in R	emarks)		Shallow Aquita	ra (D3)	
Water-Stain	visible on Aeriai Imag	јегу (Б7)					Sphagnum mos	s (D3)	
							opnagnamma	(B) (B) (1 , (1 , 0)	
Field Observations:									
Surface water Present?	Yes	r		Depth (inche	es): <u>N/A</u>	wetland Hyd	rology Present?	Yes	<u>NO X</u>
Saturation Present?	Yes	'		Depth (inche	s): >16				
Describe Recorded	Data (stream dauge	monitorina	well aerial photo	s previous inspectio	ons) if available:	1			
		,	·····, -····	-,	,,				
Remarks:									
No positive indication	on of wetland hydrolo	ogy was obse	erved.						
No positive indication	on of wetland hydrolo	ogy was obse	erved.						
No positive indication	on of wetland hydrolo	ogy was obse	erved.	the indicator or co	nfirm the sheance	of indicators)			
No positive indication	on of wetland hydrolo n: (Describe to the Matrix	ogy was obse depth need	erved. ded to document	the indicator or cor Redox	onfirm the absence Features	of indicators.)			
No positive indication SOIL Profile Description Depth – (inches)	on of wetland hydrolo n: (Describe to the Matrix Color (moist)	ogy was obse depth need	erved. led to document Color (mo	the indicator or co Redox ist) %	onfirm the absence Features Type ¹	of indicators.)	Texture	Re	marks
No positive indication	n of wetland hydrolo (Describe to the Matrix Color (moist) 7.5YR 3/4	depth need	erved. ded to document <u>Color (mo</u> None	the indicator or co Redox ist) %	nfirm the absence Features Type ¹	of indicators.)	Texture	Re	marks
No positive indication	n of wetland hydrolo (Describe to the Matrix Color (moist) 7.5YR 3/4 7.5YR 7/3	depth need	led to document	the indicator or co Redox ist)	nfirm the absence Features 	of indicators.)	Texture Silt Loam Sandy Loam	Re	marks
No positive indication	n of wetland hydrolo (Describe to the Matrix Color (moist) 7.5YR 3/4 7.5YR 7/3 7.5YR 6/6	depth need	erved. ded to document Color (mo None	the indicator or co Redox ist)	Features 	of indicators.)	Texture Silt Loam Sandy Loam	Re	marks
No positive indication	n of wetland hydrolo n: (Describe to the Matrix Color (moist) 7.5YR 3/4 7.5YR 7/3 7.5YR 6/6	depth need	erved. led to document Color (mo None	the indicator or co Redox ist) % 	Ponfirm the absence Features 	of indicators.)	Texture Silt Loam Sandy Loam	Re	marks
No positive indication	n of wetland hydrolo n: (Describe to the Matrix Color (moist) 7.5YR 3/4 7.5YR 7/3 7.5YR 6/6	depth need	erved. led to document Color (mo None	the indicator or co Redox ist)	Ponfirm the absence Features 	of indicators.)	Texture Silt Loam Sandy Loam	Re	marks
No positive indication	n of wetland hydrolo n: (Describe to the Matrix Color (moist) 7.5YR 3/4 7.5YR 7/3 7.5YR 6/6 ration, D=Depletion, f	depth need	erved. ded to document Color (mo None 	the indicator or co Redox ist)	Ponfirm the absence Features 	of indicators.)	Texture Silt Loam Sandy Loam	Re	marks
No positive indication	n: (Describe to the Matrix Color (moist) 7.5YR 3/4 7.5YR 7/3 7.5YR 6/6 ration, D=Depletion, 1 ators: (Applicable t	depth need	erved. led to document Color (mo None None ed Matrix, MS=Ma , unless otherwis	the indicator or co Redox 	Ponfirm the absence Features 	of indicators.)	Texture Silt Loam Sandy Loam Pore Lining, M=Matrix. Indicators for Proble	Re	marks
No positive indication	n: (Describe to the Matrix Color (moist) 7.5YR 3/4 7.5YR 7/3 7.5YR 6/6 ration, D=Depletion, 1 ators: (Applicable t	depth need	erved. ded to document Color (mo None None ad Matrix, MS=Ma , unless otherwis	the indicator or co Redox ist)	rface (S8) (LRR S, 1	of indicators.)	Texture Silt Loam Sandy Loam Pore Lining, M=Matrix. Indicators for Proble	Re	marks
No positive indication	n of wetland hydrolo n: (Describe to the Matrix Color (moist) 7.5YR 3/4 7.5YR 7/3 7.5YR 6/6 ration, D=Depletion, 1 ators: (Applicable t	depth need	erved. ded to document Color (mo None None ad Matrix, MS=Ma , unless otherwis	the indicator or co Redox (st) % 		of indicators.)	Texture Silt Loam Sandy Loam Pore Lining, M=Matrix. Indicators for Proble 1 cm Muck (A9) 2 cm Muck (A10) Poducod Vortio	Re 	marks
No positive indication	n: (Describe to the Matrix Color (moist) 7.5YR 3/4 7.5YR 7/3 7.5YR 6/6 ration, D=Depletion, f ators: (Applicable t lon (A2) A3)	depth need	erved. ded to document Color (mo None ad Matrix, MS=Ma unless otherwis 	the indicator or co Redox (st) % (st)	rface (S8) (LRR S, T S9) (LRR S, T, U) al (F1) (LRR O)	of indicators.)	Texture Silt Loam Sandy Loam Pore Lining, M=Matrix. Indicators for Proble 1 cm Muck (A9) 2 cm Muck (A10 Reduced Vertic Diadmont Elocod	Re 	marks
No positive indication	n of wetland hydrolo n: (Describe to the Matrix Color (moist) 7.5YR 3/4 7.5YR 7/3 7.5YR 6/6 ration, D=Depletion, f ators: (Applicable t lon (A2) A3) lifde (A4)	depth need	erved. ded to document Color (mo None ad Matrix, MS=Ma , unless otherwis 	the indicator or co Redox (ist) % 	firm the absence Features Type ¹ frace (S8) (LRR S, 1 S9) (LRR S, T, U) al (F1) (LRR O) x (F2) x (F2) x	of indicators.)	Texture Silt Loam Sandy Loam =Pore Lining, M=Matrix. Indicators for Problet 1 cm Muck (A9) 2 cm Muck (A10 Reduced Vertic Piedmont Flood Decompleue Brid	Re matic Hydric Soils (LRR 0)) (LRR S) (F18) (outside MLI plain Soils (F19) (LF	marks
No positive indication SOIL Profile Description Depth 0-10 10-16 10-16 10-16 10-16 10-16 10-16 10-16 10-16 10-16 10-16 10-16 10-16 10-16 10-10 10-16 10-10 10-16 10-10 10-16 10-10 10-16 10-10 10-16 10-10 10-16 10-10 10-16 10-10 1	n: (Describe to the Matrix Color (moist) 7.5YR 3/4 7.5YR 7/3 7.5YR 6/6 ration, D=Depletion, f ators: (Applicable t lon (A2) A3) liftde (A4) rers (A5) les (A6) (I RR P T L	depth need <u>%</u> <u>100</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>construction</u> RM=Reduce to all LRRs,	erved. ded to document Color (mo None ad Matrix, MS=Ma , unless otherwis 	the indicator or co Redox (ist)		of indicators.)	Texture Silt Loam Sandy Loam =Pore Lining, M=Matrix. Indicators for Problet 1 cm Muck (A9) 2 cm Muck (A10 Reduced Vertic Piedmont Flood; Anomalous Brig (MI PA 153B)	Re 	marks 3: RA 150A,B) RR P, S, T)))
No positive indication	n of wetland hydrolo m: (Describe to the Matrix Color (moist) 7.5YR 3/4 7.5YR 7/3 7.5YR 6/6 ration, D=Depletion, 1 ators: (Applicable t lon (A2) A3) lifde (A4) rers (A5) les (A6) (LRR P, T, U Wineral (A7) (LR P, T, U	(0) (0) (0) (0) (0) (0) (0) (0)	erved. ded to document Color (mo None ad Matrix, MS=Ma , unless otherwis 	the indicator or co Redox (ist)	rface (S8) (LRR S, 1 S9) (LRR S, T, U) al (F1) (LRR O) x (F2) (F6) teo (F7)	of indicators.)	Texture Silt Loam Sandy Loam =Pore Lining, M=Matrix. Indicators for Problet 1 cm Muck (A9) 2 cm Muck (A10 Reduced Vertic Piedmont Flood; Anomalous Brig (MLRA 153B) Red Parent Mat	Re matic Hydric Soils (LRR O)) (LRR S) (F18) (outside MLI plain Soils (F19) (LF nt Loamy Soils (F20) srial (TF2)	marks 3: RA 150A,B) RR P, S, T)))
No positive indication SOIL Profile Description Depth (inches) 0-10 10-16 10-16 10-16 10-16 10-16 10-16 10-16 10-16 10-16 10-10 10-16 10-16 10-16 10-16 10-16 10-16 10-16 10-10 10-16 10-16 10-16 10-16 10-16 10-10 10-16 10-10 10-16 10-10 10-16 10-16 10-16 10-16 10-10 10-16	n: (Describe to the Matrix Color (moist) 7.5YR 3/4 7.5YR 7/3 7.5YR 6/6 ration, D=Depletion, f ators: (Applicable t lon (A2) A3) lifide (A4) rers (A5) les (A6) (LRR P, T, U Mineral (A7) (LRR P),	depth need 	erved. ded to document Color (mo None ad Matrix, MS=Ma , unless otherwis 	the indicator or co Redox (ist)	rface (S8) (LRR S, 1 S9) (LRR S, T, U) al (F1) (LRR O) x (F2) (F6) tce (F7) (F8)	of indicators.)	Texture Silt Loam Sandy Loam =Pore Lining, M=Matrix. Indicators for Problet 1 cm Muck (A9) 2 cm Muck (A10 Reduced Vertic Piedmont Flood; Anomalous Brigi (MLRA 153B) Red Parent Matt Very Shallow Pa	Re matic Hydric Soils (LRR O)) (LRR S) (F18) (outside MLI plain Soils (F19) (LF nt Loamy Soils (F20) arial (TF2) rk Surface (TF12)	marks 3: RA 150A,B) RR P, S, T)))
No positive indication SOIL Profile Description Depth (inches) 0-10 10-16 10-16 10-16 10-16 10-16 10-16 10-16 10-16 10-16 10-10 10-16 10-16 10-16 10-16 10-10 10-16 10-10 10-16 10-10 10-16 10-16 10-16 10-10 10-16 10-10 10-16 10-10 10-16 10-10 10-16 10-10 10-16 10-10 10-16 10-10 10-16 10-16 10-10 10-16	n of wetland hydrolo m: (Describe to the <u>Matrix</u> <u>Color (moist)</u> <u>7.5YR 3/4</u> <u>7.5YR 7/3</u> <u>7.5YR 6/6</u> <u>7.5YR 7.5YR 6/6 <u>7.5YR 6/6</u> <u>7.5YR </u></u>	depth need 	erved. ded to document Color (mo None ad Matrix, MS=Ma , unless otherwis 	the indicator or cc Redox ist)	rface (S8) (LRR S, 1 S9) (LRR S, T, U) al (F1) (LRR O) x (F2) (F6) tce (F7) (F8)	of indicators.)	Texture Silt Loam Sandy Loam =Pore Lining, M=Matrix. Indicators for Problet 1 cm Muck (A9) 2 cm Muck (A10 Reduced Vertic Piedmont Flood Anomalous Brig (MLRA 153B) Red Parent Mat Very Shallow De Other (Exolain ir	Re matic Hydric Soils (LRR O)) (LRR S) (F18) (outside MLI blain Soils (F19) (LF nt Loamy Soils (F20) erial (TF2) rk Surface (TF12)) Remarks)	marks 3. RA 150A,B) RR P, S, T)))
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No positive indication SOIL Profile Description Depth (inches) 0-10 10-16	n of wetland hydrolo m: (Describe to the Matrix Color (moist) 7.5YR 3/4 7.5YR 7/3 7.5YR 6/6 ration, D=Depletion, 1 ators: (Applicable to lifide (A4) rers (A5) lifide (A4) rers (A5) lifide (A4) (LRR P, T, U Mineral (A7) (LRR P, to (A8) (LRR U) A9) (LRR P, T) ow Dark Surface (A1 urface (A12)	(0) (0) (0) (0) (0) (0) (0) (0)	erved. ied to document Color (mo None d Matrix, MS=Me , unless otherwis	the indicator or co Redox ist)	Image: second system Type1	of indicators.)	Texture Silt Loam Sandy Loam Pore Lining, M=Matrix. Indicators for Proble 1 cm Muck (A9) 2 cm Muck (A10 Reduced Vertic Piedmont Floodg Anomalous Brigi (MLRA 153B) Red Parent Mate Very Shallow Da Other (Explain ir 3Indicators of	Re matic Hydric Soils (LRR O)) (LRR S) (F18) (outside MLI Jain Soils (F19) (LF nt Loamy Soils (F20 arial (TF2) rk Surface (TF12) n Remarks) hydrophytic vegeta	marks 3: RA 150A,B) RR P, S, T))) tion and wetland
No positive indication SOIL Profile Description Depth (inches) 0-10 10-16 10-16 10-16 10-16 10-16 10-16 10-16 10-16 10-16 10-16 10-16 10-16 10-16 10-16 10-16 10-16 10-16 10-16 10-16 10-10 10-16 10-10 10-16 10-10 10-16 10-10	n of wetland hydrolo m: (Describe to the Matrix Color (moist) 7.5YR 3/4 7.5YR 7/3 7.5YR 6/6 ration, D=Depletion, I ators: (Applicable to lifide (A4) rers (A5) lifide (A4) rers (A5) lifide (A4) rers (A5) (LRR P, T, U Mineral (A7) (LRR P, Nice (A8) (LRR U) A9) (LRR P, T) ow Dark Surface (A1 urface (A12) Redox (A16) (MLRA	(0) (0) (1) (1) (1) (1) (1) (1) (1) (1	erved. ied to document Color (mo None ad Matrix, MS=Me , unless otherwis	the indicator or co Redox (st) % % % % % % % % % % % % % % % % % % %	rface (S8) (LRR S, 1 S9) (LRR S, T, U) al (F1) (LRR O) x (F2) (F6) (F6) tce (F7) (F8) 1) (MLRA 151) sses (F12) (LRR O 3) (LRR P, T, U)	of indicators.)	Texture Silt Loam Sandy Loam Pore Lining, M=Matrix. Indicators for Problet 1 cm Muck (A9) 2 cm Muck (A10 Reduced Vertic Piedmont Floodg Anomalous Brigi (MLRA 153B) Red Parent Mate Very Shallow Da Other (Explain ir ³ Indicators of hydrology mu nrohlematic	Re matic Hydric Soils (LRR O)) (LRR S) (F18) (outside MLI Jain Soils (F19) (LF nt Loamy Soils (F20 arial (TF2) rk Surface (TF12) n Remarks) hydrophytic vegeta st be present, unless	marks
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	•					1 3	
			Absolute % cover	Dominant Species	Indicator Status	Dominance Test worksheet:	
Tree Stratum	(Plot size:	<u>30 ft.</u>)				Number of Dominant Species	
1. Ilex glabra			10	Yes	FACW	That Are OBL, FACW, or FAC:	4 (A)
2. Carpinus carolinia	ana		10	Yes	FAC		
3.				<u> </u>		Total Number of Dominant	
4						Species Across All Strata:	4 (B)
5.							
6						Percent of Dominant Species	
			20	= Total Cover		That Are OBL, FACW, or FAC:	100% (A/B)
		50% of total cover:	10	20% of total cover:	4		
		00 (Prevalence Index Worksheet:	
Sapling Stratum	(Plot size:	<u>30 ft.</u>)				Total % Cover of	Multiply by
1. None Observed							
<u> </u>							x I = <u> </u>
)						FACW species 25	x 2 = 50
*		<u> </u>				FACIllanacion	× 4 = 0
							x4= <u>0</u>
				= Total Cover	<u> </u>	Column Totals: 43	(Δ) <u>10</u> / (
		50% of total cover:		20% of total cover:			(
				2070 01 10101 001011.			
Shrub Stratum	(Plot size:	30 ft.)				Prevalence Index = B/A =	2.42
I. Halesia diptera			5	Yes	FAC		
2.						Hydrophytic Vegetation Indicators:	
3						1 - Rapid Test for Hydrophytic Veg	getation
4.						X 2 - Dominance Test is >50%	
5						X 3 - Prevalence Index is $\leq 3.0^{1}$	
6.						Problematic Hydrophytic Vegetatic	on ¹ (Explain)
			5	= Total Cover			
		50% of total cover:	0.5			1	
			2.5	20% of total cover:	1	¹ Indicators of hydric soil and wetland hydrolo	ogy must
			2.5	20% of total cover:	1	¹ Indicators of hydric soil and wetland hydrolo be present, unless disturbed or problematic.	ogy must
<u>Herb Stratum</u>	(Plot size:	<u>30 ft.</u>)		20% of total cover:_	1 EACW	¹ Indicators of hydric soil and wetland hydrold be present, unless disturbed or problematic.	ogy must
<u>Herb Stratum</u> 1. <u>Arundinaria tecta</u> 2. Triadica sebifera	(Plot size:	<u>30 ft.</u>)	 	20% of total cover:	1 FACW	¹ Indicators of hydric soil and wetland hydrold be present, unless disturbed or problematic. Definitions of Five Vegetation Strata:	ogy must
<u>Herb Stratum</u> 1. <u>Arundinaria tecta</u> 2. <u>Triadica sebifera</u> 3	(Plot size:	<u>30 ft.</u>)	 	20% of total cover: Yes No	1 FACW FAC	¹ Indicators of hydric soil and wetland hydrolo be present, unless disturbed or problematic. Definitions of Five Vegetation Strata:	ogy must
<u>Herb Stratum</u> 1. <u>Arundinaria tecta</u> 2. <u>Triadica sebifera</u> 3 4	(Plot size:	<u>30 ft.</u>)	 	20% of total cover: 	1 FACW FAC	 ¹Indicators of hydric soil and wetland hydrold be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 	pgy must
1 <u>Arundinaria tecta</u> 1. <u>Arundinaria tecta</u> 2. <u>Triadica sebifera</u> 3 4	(Plot size:	<u>30 ft.</u>)	 	20% of total cover: <u>Yes</u> <u>No</u>	1 FACW FAC	 ¹Indicators of hydric soil and wetland hydrold be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and (7 6 cm) or larger in diameter at breast height 	ogy must d 3 in. (DBH)
Ierb Stratum . Arundinaria tecta 2. Triadica sebifera 3.	(Plot size:	<u>30 ft.</u>)		20% of total cover: <u>Yes</u> <u>No</u>	FACW FAC	 ¹Indicators of hydric soil and wetland hydrold be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and (7.6 cm) or larger in diameter at breast height 	ogy must d 3 in. (DBH).
Herb Stratum 1. Arundinaria tecta 2. Triadica sebifera 3.	(Plot size:	<u>30 ft.</u>)		20% of total cover: <u>Yes</u> <u>No</u>	1 FACW FAC	 ¹Indicators of hydric soil and wetland hydrold be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and (7.6 cm) or larger in diameter at breast height Sapling - Woody plants, excluding woody vin 	ogy must d 3 in. (DBH). es,
lerb Stratum 1. Arundinaria tecta 2. Triadica sebifera 3.	(Plot size:	<u>30 ft.</u>)		20% of total cover: <u>Yes</u> <u>No</u> 	1 FACW FAC	 ¹Indicators of hydric soil and wetland hydrold be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and (7.6 cm) or larger in diameter at breast height Sapling - Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height and 	d 3 in. (DBH). es, d less
Terb Stratum 1. Arundinaria tecta 2. Triadica sebifera 3.	(Plot size:	<u>30 ft.)</u>		20% of total cover: <u>Yes</u> <u>No</u> 	1 FACW FAC	 ¹Indicators of hydric soil and wetland hydrold be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and (7.6 cm) or larger in diameter at breast height Sapling - Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH. 	ogy must d 3 in. (DBH). es, d less
Terb Stratum 1. Arundinaria tecta 2. Triadica sebifera 3.	(Plot size:	<u>30 ft.)</u>		20% of total cover: <u>Yes</u> <u>No</u> 	1 FACW FAC	¹ Indicators of hydric soil and wetland hydrold be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and (7.6 cm) or larger in diameter at breast height Sapling - Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.	d 3 in. (DBH). es, d less
Jerb Stratum 1. Arundinaria tecta 2. Triadica sebifera 3. 4. 5. 6. 7. 8. 9. 1. 1.	(Plot size:	30 ft)		20% of total cover: <u>Yes</u> <u>No</u> 	1 FACW FAC	 ¹Indicators of hydric soil and wetland hydrold be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and (7.6 cm) or larger in diameter at breast height Sapling - Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines 	ogy must d 3 in. (DBH). es, d less
Jerb Stratum 1. Arundinaria tecta 2. Triadica sebifera 3. 4. 5. 6. 7. 8. 9. 1. 1.	(Plot size:	30 ft)		20% of total cover: <u>Yes</u> <u>No</u> = Total Cover	1 FACW FAC	 ¹Indicators of hydric soil and wetland hydrold be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and (7.6 cm) or larger in diameter at breast height Sapling - Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height an than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines approximately 3 to 20 ft (1 to 6 m) in height. 	ogy must d 3 in. (DBH). es, d less
Jerb Stratum 1. Arundinaria tecta 2. Triadica sebifera 3	(Plot size:	30 ft)	 	20% of total cover: Yes No	1 FACW FAC	 ¹Indicators of hydric soil and wetland hydrold be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and (7.6 cm) or larger in diameter at breast height Sapling - Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height an than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines approximately 3 to 20 ft (1 to 6 m) in height. 	bgy must d 3 in. (DBH). es, d less s,
Herb Stratum 1. Arundinaria tecta 2. Triadica sebifera 3	(Plot size:	30 ft)	 	20% of total cover: 	1 FACW FAC 3.6	 ¹Indicators of hydric soil and wetland hydrold be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and (7.6 cm) or larger in diameter at breast height Sapling - Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height an 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, inc 	bgy must d 3 in. (DBH). es, d less s,
Jerb Stratum 1. Arundinaria tecta 2. Triadica sebifera 3	(Plot size:	30 ft)	 	20% of total cover: 	1 FACW FAC 3.6	 ¹Indicators of hydric soil and wetland hydrold be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and (7.6 cm) or larger in diameter at breast height Sapling - Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height an 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, inc herbaceous vines, regardless of size, <u>and</u> wood 	ogy must d 3 in. (DBH). es, d less s, s,
Herb Stratum 1. Arundinaria tecta 2. Triadica sebifera 3	(Plot size:	30 ft)	 	20% of total cover: 	1 FACW FAC 3.6	 ¹Indicators of hydric soil and wetland hydrold be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and (7.6 cm) or larger in diameter at breast height Sapling - Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height an 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, inc herbaceous vines, regardless of size, and wo plants, except woody vines, less than approxi 	bgy must d 3 in. (DBH). es, d less s, s, sluding ody mately
Traium 1. Arundinaria tecta 2. Triadica sebifera 3	(Plot size:	30 ft)		20% of total cover: 	1 FACW FAC 3.6	 ¹Indicators of hydric soil and wetland hydrold be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and (7.6 cm) or larger in diameter at breast height Sapling - Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height an 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, ind herbaceous vines, regardless of size, <u>and</u> woo plants, except woody vines, less than approxi 2 ft (1 m) in height. 	bgy must d 3 in. (DBH). es, d less s, s, sluding ody mately
Herb Stratum 1. Arundinaria tecta 2. Triadica sebifera 3	(Plot size:	30 ft)		20% of total cover: <u>Yes</u> <u>No</u> = Total Cover 20% of total cover: 	1 FACW FAC 3.6	 ¹Indicators of hydric soil and wetland hydrold be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and (7.6 cm) or larger in diameter at breast height Sapling - Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height an 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, ind herbaceous vines, regardless of size, <u>and</u> wo plants, except woody vines, less than approxi 2 ft (1 m) in height. 	bgy must d 3 in. (DBH). es, d less s, s, sluding ody mately
Vince Vince Noody Vine Stratum 1. Arundinaria tecta 2. Triadica sebifera 3.	(Plot size:	30 ft)		20% of total cover: <u>Yes</u> <u>No</u> = Total Cover 20% of total cover: 	1 FACW FAC 3.6	 ¹Indicators of hydric soil and wetland hydrold be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and (7.6 cm) or larger in diameter at breast height Sapling - Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height an 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, ind herbaceous vines, regardless of size, <u>and</u> woo plants, except woody vines, less than approxi 2 ft (1 m) in height. Woody vine - All woody vines, regardless of blants 	bgy must d 3 in. (DBH). es, d less s, s, cluding ody mately height.
Vince Stratum 1. Arundinaria tecta 2. Triadica sebifera 3.	(Plot size:	30 ft)		20% of total cover: <u>Yes</u> <u>No</u> = Total Cover 20% of total cover: 	1 FACW FAC 3.6	 ¹Indicators of hydric soil and wetland hydrold be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and (7.6 cm) or larger in diameter at breast height Sapling - Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height and 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, inclustrately a cody vines, less than approxi2 ft (1 m) in height. Woody vine - All woody vines, regardless of full to a more in height. 	bgy must d 3 in. (DBH). es, d less s, s, sluding ody mately height.
Visit Stratum 1. Arundinaria tecta 2. Triadica sebifera 3.	(Plot size:	30 ft)		20% of total cover: <u>Yes</u> <u>No</u> = Total Cover 20% of total cover: = Total Cover	1 FACW FAC 3.6	 ¹Indicators of hydric soil and wetland hydrold be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and (7.6 cm) or larger in diameter at breast height Sapling - Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height an 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, inc herbaceous vines, regardless of size, <u>and</u> wo plants, except woody vines, less than approxi 2 ft (1 m) in height. Woody vine - All woody vines, regardless of I Hydrophytic 	bgy must d 3 in. (DBH). es, d less s, s, sluding ody mately height.
Herb Stratum. 1. Arundinaria tecta 2. Triadica sebifera 3	(Plot size:	30 ft.)		20% of total cover: <u>Yes</u> <u>No</u> = Total Cover 20% of total cover: = Total Cover 20% of total cover:	1 FACW FAC 3.6	 ¹Indicators of hydric soil and wetland hydrold be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and (7.6 cm) or larger in diameter at breast height Sapling - Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height an 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, ind herbaceous vines, regardless of size, <u>and</u> wo plants, except woody vines, less than approxi 2 ft (1 m) in height. Woody vine - All woody vines, regardless of I Hydrophytic Vegetation 	bgy must d 3 in. (DBH). es, d less s, s, sluding ody mately height.
Verb Stratum 1. Arundinaria tecta 2. Triadica sebifera 3. 4. 5. 3. 7. 3. 9. 1. Voody Vine Stratum 1. Voody Vine Observed 2. 3. 	(Plot size:	30 ft.)		20% of total cover: <u>Yes</u> <u>No</u> = Total Cover 20% of total cover: = Total Cover 20% of total cover:	1 FACW FAC 3.6	 ¹Indicators of hydric soil and wetland hydrold be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and (7.6 cm) or larger in diameter at breast height Sapling - Woody plants, excluding woody vine approximately 20 ft (6 m) or more in height and 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, inc herbaceous vines, regardless of size, <u>and woo plants</u>, except woody vines, less than approxi 2 ft (1 m) in height. Woody vine - All woody vines, regardless of 1 Hydrophytic Vegetation Present? Yes X N 	bgy must d 3 in. (DBH). es, d less s, s, cluding ody mately height.


Site: Bob Anthony Parkway Relocation

Location: Jackson, Madison County, MS

Photo No: 22

Date: 07/12/2023

Description: Wetland determination Data Point 11 looking east.



Project/Site:	Bob An	nthony Parkway F	Relocation	Co	ounty:	Madison	Sampling	Date:	July 12, 2023
Applicant/Owner:		Mississippi Dep	partment of Transpo	ortation	Sta	te:	Mississippi Sample	Point:	DP12
Investigator(s):	Savannah R. Mo	orales an	d Bettie Sho	oemaker	Section, Townshi	p, Range:		S35, T7N, R2E	
Landform (hillslope, terr	ace, etc.):		Depression		Local relief (con	cave, convex, no	ne): Concave	Slope (%):	0-5
Subregion (LRR or MLR	RA):	LRF	R P, MLRA 134		_ Lat: 32	.40169	Long: -90.07401	Datum:	NAD 83
Soil Map Unit Name:			Cascilla-Cal	houn association			NWI Classification:		PF01A
Are climatic / hydrologic	conditions on the site	typical for this tim	ne of year?	(Yes / No)	Yes	(if no, explain in Remar	ks.)	Y No
Are Vegetation	<u>No</u> ,301	No or Hyd	drology No	o naturally pr	oblematic?	Are NormarC	fineeded explain any answe	res	
SUMMARY OF F	INDINGS - Attac	h site map	showing sam	oling point l	ocations, tra	insects, imp	ortant features, etc	-	
	- Decemb			P	1			-	
Hydrophylic Vegetallor Hydric Soil Present?	n Present?	Yes X	<u> </u>		Is the Sample	d Area			
Wetland Hydrology Pre	esent?	Yes X	No		within a Wetla	and?	Yes X	No	
- ·									
Remarks: This point was de	termined to be within a	wetland due to t	he presence of all t	three wetland crite	eria				
					ond.				
Wetland bydrolo	av Indicatore								
	gy mulcators.						Secondary Indicators (I	ninimum of two rec	uired)
Primary Indicators	s (minimum of one is re	equired; check all	that apply)	tia Fauna (P12)			Surface Soil Cra	acks (B6) stad Canasus Surf	inen (PR)
Surface W	r Table (A2)		Aqua Mari I	Deposits (B15)	RR II)		Sparsely veget	ne (B10)	ace (bo)
Ngn Wate	a (A3)		Hydro	ogen Sulfide Odo	r (C1)		X Moss Trim Line	s (B16)	
Water Ma	rks (B1)		Oxidi	ized Rhizosphere	s on Living Roots	(C3)	Drv-Season Wa	iter Table (C2)	
Sediment	Deposits (B2)		Prese	ence of Reduced	Iron (C4)	()	X Crayfish Burrow	rs (C8)	
Drift Depo	osits (B3)		Rece	ent Iron Reduction	in Tilled Soils (C6	6)	Saturation Visib	le on Aerial Image	ry (C9)
Algal Mat	or Crust (B4)		Thin I	Muck Surface (C	7)		X Geomorphic Po	sition (D2)	
Iron Depo	sits (B5)		Other	r (Explain in Rem	arks)		Shallow Aquitar	d (D3)	
Inundation	n Visible on Aerial Imag	jery (B7)					X FAC-Neutral Te	st (D5)	
X Water-Sta	ained Leaves (B9)						Sphagnum mos	s (D8) (LRR T, U)	
Field Observations:									
Surface Water Present	t? Yes	No	x	Depth (inches):	N/A	Wetland Hyd	rology Present?	Yes X	No
Water Table Present?	Yes	No	x	Depth (inches):	>16				
Saturation Present?	Yes	No	х	Depth (inches):	>16				
Describe Recorde	ed Data (stream gauge	, monitoring well,	aerial photos, prev	vious inspections), if available:				
Pomarke:									
Kemarka.									
A positive indicati	on of wetland hydrolog	y was observed	(at least one primar	ry indicator).					
A positive indicati	on of wetland hydrolog	y was observed	(at least one primar	ry indicator).					
A positive indicati	on of wetland hydrolog	y was observed of	(at least one primar	ry indicator).	rm the absence (of indicators.)			
A positive indicati	on of wetland hydrolog on: (Describe to the Matrix	y was observed of the second sec	(at least one primar o document the in	ry indicator). Indicator or confi Redox Fe	rm the absence of atures	of indicators.)			
A positive indicati	on: (Describe to the 	depth needed to	(at least one primar o document the in Color (moist)	ry indicator). Indicator or confi Redox Fe	rm the absence of atures	of indicators.)	Texture	Re	emarks
A positive indicati SOIL Profile Descripti Depth (inches) 0-1	on of wetrand hydrolog on: (Describe to the Matrix Color (moist) 10YR 3/2	depth needed to	(at least one primar o document the in Color (moist) None	ry indicator). Indicator or confi Redox Fe 	rm the absence of atures	of indicators.)	Texture	Re	marks
A positive indicati SOIL Profile Description Depth (inches) 0-1 1-16	on: (Describe to the Matrix Color (moist) 10YR 3/2 10YR 5/2	depth needed to % 100 88	(at least one primar o document the in Color (moist) None 7.5YR 4/6	ry indicator). Indicator or confi Redox Fe % 	rm the absence of atures 	of indicators.)	Texture Silt Loam Silt Loam	Re	emarks
A positive indicati SOIL Profile Descripti Depth (inches) 0-1 1-16	on: (Describe to the Matrix Color (moist) 10YR 3/2 10YR 5/2	depth needed to % 100 88	(at least one primar o document the in Color (moist) None 7.5YR 4/6 10YR 5/8	ry indicator). ndicator or confi Redox Fe: 	rm the absence of atures Type ¹ C C	of indicators.)	Texture Silt Loam Silt Loam	Re	emarks
A positive indicati SOIL Profile Description Depth (inches) 0-1 1-16	on: (Describe to the Matrix Color (moist) 10YR 3/2 10YR 5/2	depth needed to % 100 88	(at least one primar o document the in Color (moist) None 7.5YR 4/6 10YR 5/8 10YR 5/8	ry indicator). ndicator or confi Redox Fe _	rm the absence of atures Type ¹ C C C C	of indicators.) Loc ² M M PL	Texture Silt Loam Silt Loam	Re	emarks
A positive indicati SOIL Profile Descripti Depth (inches) 0-1 1-16	on: (Describe to the Matrix Color (moist) 10YR 3/2 10YR 5/2	depth needed to % 100 88	(at least one primar o document the in Color (moist) None 7.5YR 4/6 10YR 5/8 10YR 5/8	ry indicator). ndicator or confi Redox Fer % 2 5 5 5 2 2 5 5 2 2 5 5 5 2 5 5 2 5 5 5 5 5 5 5 5 5 5 5 5 5	rm the absence of atures Type ¹ C C C C	Def indicators.)	Texture Silt Loam Silt Loam	Re	emarks
A positive indicati SOIL Profile Descripti Depth (inches) 0-1 1-16 	on: (Describe to the <u>Matrix</u> <u>Color (moist)</u> <u>10YR 3/2</u> <u>10YR 5/2</u> <u></u> ntration, D=Depletion, F	depth needed to	(at least one primar o document the in Color (moist) None 7.5YR 4/6 10YR 5/8 10YR 5/8 trix, MS=Masked S set otherwise and	ry indicator). ndicator or confi Redox Fe: <u>%</u> <u>2</u> <u>5</u> <u>5</u> Sand Grains. ed)	rm the absence of atures Type ¹ C C C C	of indicators.) Loc ² M M PL ² Location: PL		Re	marks
A positive indicati SOIL Profile Descripti Depth (inches) 0-1 1-16 	on: (Describe to the <u>Matrix</u> <u>Color (moist)</u> <u>10YR 3/2</u> <u>10YR 5/2</u> <u>intration, D=Depletion, F</u> icators: (Applicable t	depth needed to % 100 88 	(at least one primar o document the in Color (moist) None 7.5YR 4/6 10YR 5/8 10YR 5/8 10YR 5/8 siss otherwise note Polyva	ry indicator). ndicator or confi Redox Fe: <u>%</u> <u>2</u> <u>5</u> <u>5</u> Sand Grains. ed.) alue Below Surface	rm the absence of atures Type ¹ C C C C C	of indicators.) Loc ² M M PL ² Location: PL ² U)	Texture Silt Loam Silt Loam =Pore Lining, M=Matrix. Indicators for Problem	Re	marks
A positive indicati SOIL Profile Descripti Depth (inches) 0-1 1-16 'Type: C=Concer Hydric Soils Indi Histosoi (A: Histosoi (A:	on: (Describe to the <u>Matrix</u> <u>Color (moist)</u> <u>10YR 3/2</u> <u>10YR 5/2</u> <u>intration, D=Depletion, f</u> icators: (Applicable t 1) adon (A2)	depth needed to % 100 88 	(at least one primar o document the in Color (moist) None 7.5YR 4/6 10YR 5/8 10YR 5/8 10YR 5/8 trix, MS=Masked S ss otherwise note Polyva Thin D	ry indicator). ndicator or confi Redox Fe: 9 2 5 5 5 5 5 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1	rm the absence of atures 	of indicators.) Loc ² M M PL ² Location: PL ²	Texture Silt Loam Silt Loam =Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) / 2 cm Muck (A10)	Re	marks
A positive indicati SOIL Profile Descripti Depth (inches) 0-1 1-16 'Type: C=Concer Hydric Soils Indi Histosol (A' Histosol (A' Black Histic Epipe Black Histo	on: (Describe to the <u>Matrix</u> <u>Color (moist)</u> <u>10YR 3/2</u> <u>10YR 5/2</u> <u>intration, D=Depletion, f</u> icators: (Applicable t 1) adon (A2) 5 (A3)	depth needed to % 100 88 RM=Reduced Ma ko all LRRs, unle	(at least one primar o document the in Color (moist) None 7.5YR 4/6 10YR 5/8 10YR 5/8 10YR 5/8 trix, MS=Masked S sss otherwise note Polyva Polyva Thin D Loamy	ry indicator). ndicator or confi Redox Fe: 9 2 5 5 5 5 6 6 9 1 2 5 5 6 1 1 1 1 1 1 1 1 1 1 1 1 1	rm the absence of atures 	of indicators.) Loc ² M M PL ² Location: PL:	Texture Silt Loam Silt Loam =Pore Lining, M=Matrix. Indicators for Probler 1 cm Muck (A9) 2 cm Muck (A10) Reduced Vertic (Re	2marks
A positive indicati SOIL Profile Descripti Depth (inches) 0-1 1-16 1-16 1-16 1-16 1-16 Hydric Soils Indi Histosol (A' Histoc Epipe Black Histic Hydrogen S	on: (Describe to the Matrix Color (moist) 10YR 3/2 10YR 5/2 ntration, D=Depletion, F icators: (Applicable t 1) edon (A2) c (A3) Sulfide (A4)	depth needed to	(at least one primar colocument the in Color (moist) None 7.5YR 4/6 10YR 5/8 10YR 5/8 10YR 5/8 trix, MS=Masked S siss otherwise note Polyva Polyva Thin D Loamy Loamy	ry indicator or confi Redox Fe: % 2 5 5 5 6 6 9 6 9 6 7 8 8 9 7 8 9 7 8 9 7 8 9 7 8 9 7 8 9 7 8 9 7 8 9 7 8 9 7 8 9 7 8 9 7 8 9 7 9 9 9 9 9 9 9 9 9 9 9 9 9	rm the absence of atures 	of indicators.) Loc ² M M PL ² Location: PL ²	Texture Silt Loam Silt Loam =Pore Lining, M=Matrix. Indicators for Probler 1 cm Muck (A9) 2 cm Muck (A10) Reduced Vertic (Piedmont Floodp	Re 	marks
A positive indicati SOIL Profile Descripti Depth (inches) 0-1 1-16 ' 'Type: C=Concer Hydric Soils Indi Histosol (A' Histoc Epipe Black Histic Hydrogen S Stratified La	on: (Describe to the Matrix Color (moist) 10YR 3/2 10YR 5/2 	depth needed to	(at least one primar colocument the in Color (moist) None 7.5YR 4/6 10YR 5/8 10YR 5/8 10YR 5/8 trix, MS=Masked S siss otherwise note Polyva Polyva Thin D Loamy Loamy X Deplet	ry indicator or confi Redox Fe: % 2 5 5 5 6 6 9 6 9 6 7 8 8 9 6 9 7 8 9 7 8 9 7 8 9 7 8 9 7 8 9 7 8 9 7 8 9 7 8 9 7 8 9 7 8 9 7 8 9 7 9 9 9 9 9 9 9 9 9 9 9 9 9	rm the absence of atures 	of indicators.) Loc ² M PL ² Location: PL ²	Texture Silt Loam Silt Loam =Pore Lining, M=Matrix. Indicators for Probler 1 cm Muck (A9) 2 cm Muck (A10) Reduced Vertic (Piedmont Floodp Anomalous Brigh	Re 	marks
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A positive indicati SOIL Profile Descripti Depth (inches) 0-1 1-16 ''Type: C=Concer Hydric Soils Indi Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified La Organic Bo 5 cm Mucky	on: (Describe to the Matrix Color (moist) 10YR 3/2 10YR 5/2 	y was observed i depth needed to <u>%</u> <u>100</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u> <u>88</u>	(at least one primar color (moist) None 7.5YR 4/6 10YR 5/8 10YR 5/8 10YR 5/8 trix, MS=Masked S siss otherwise note Polyva Thin D Loamy Loamy X Deplet Redox	ry indicator or confi Redox Fe % 2 5 5 5 6 8 8 9 9 2 5 5 6 9 9 9 9 9 9 9 9 9 9 9 9 9	rm the absence of atures 	of indicators.) Loc ² M M PL ² Location: PL ³	Texture Silt Loam Silt Loam 	Re 	marks 3: RA 150A,B) RR P, S, T)))
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A positive indicati SOIL Profile Descripti Depth (inches) 0-1 1-16 1-16 1-16 1-16 1-16 1-16 1-16	on: (Describe to the Matrix Color (moist) 10YR 3/2 10YR 5/2 	y was observed (depth needed to 	(at least one primar Color (moist) None 7.5YR 4/6 10YR 5/8 10YR 5/8 atrix, MS=Masked S sss otherwise noto Polyva Thin D Loamy Loamy X Deplet Redox Deplet Redox Marl (F Deplet Iron-M	ry indicator). Indicator or confi Redox Fe 9 2 5 5 5 5 5 5 5 5 6 6 7 Mucky Mineral (I 7 6 7 8 10 10 10 10 10 10 10 10 10 10	rm the absence of atures <u>Type</u> ¹ <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u>	PL 2Location: PL PL 2Location: PL , U)	Texture Silt Loam Silt Loam Silt Loam Indicators for Problem Carbon Muck (A9) Carbon Muck (A10) Reduced Vertic (Piedmont Floodp Anomalous Brigh (MLRA 153B) Red Parent Mate Very Shallow Dai Other (Explain in ³ Indicators of hydrology mus problematic.	Re matic Hydric Soils LRR O) (LRR S) F18) (outside MLI lain Soils (F19) (LI t Loamy Soils (F20) rial (TF2) rk Surface (TF12) Remarks) hydrophytic vegeta st be present, unler	marks and the second s
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A positive indicati SOIL Profile Descripti Depth (inches) 0-1 1-16	on: (Describe to the Matrix Color (moist) 10YR 3/2 10YR 5/2 	y was observed (depth needed to 	(at least one primar Color (moist) None 7.5YR 4/6 10YR 5/8 10YR 5/8 atrix, MS=Masked S sss otherwise noto Polyva Thin D Loamy Loamy X Deplet Redox Deplet Redox Marl (F Deplet Redox Marl (F Deplet Redox Marl (F Deplet Redox Marl (F Deplet Redox Marl (F Deplet Redox Marl (F Deplet Redox Marl (F Deplet Redox Marl (F Redox Marl (F Non-M	ry indicator or confi Redox Fe % 2 5 5 5 5 5 5 5 6 6 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9	rm the absence of atures Type ¹ C C C C C C C C C C C C C	of indicators.) <u>Loc²</u> <u>M</u> <u>PL</u> ² Location: PL: ² Location: PL: J D D D D D D D D	Texture Silt Loam Silt Loam Silt Loam It Loam It Loam It Loam It Loam It Loam It Community It Co	Re matic Hydric Soils LRR O) (LRR S) F18) (outside MLI lain Soils (F19) (LI t Loamy Soils (F20) rial (TF2) rk Surface (TF12) Remarks) hydrophytic vegeta t be present, unler	marks and the second s
A positive indicati SOIL Profile Descripti Depth (inches) 0-1 1-16 1-16 1-16 1-16 1-16 1-16 1-16	on: (Describe to the Matrix Color (moist) 10YR 3/2 10YR 5/2 10YR 5/2 mtration, D=Depletion, f icators: (Applicable t 1) edon (A2) c (A3) Sulfide (A4) ayers (A5) dies (A6) (LRR P, T, U y Mineral (A7) (LRR P, ence (A8) (LRR U) (A9) (LRR P, T) elow Dark Surface (A1 Surface (A12) ie Redox (A16) (MLRA ky Mineral (S1) (LRR C ved Matrix (S4) ox (S5)	y was observed (depth needed to 	(at least one primar Color (moist) None 7.5YR 4/6 10YR 5/8 10YR 5/8 10YR 5/8 atrix, MS=Masked S so otherwise noto Polyva Thin D Loamy Loamy Loamy Loamy Marl (F Deplet Redox Deplet Redox Deplet Redox Deplet Redox Deplet Redox Deplet Redox Marl (F Deplet Redox Marl (F Deplet Marl (F Non-Marl (F) Non-Marl (F) No	ry indicator or confi Redox Fe % 2 5 5 5 5 5 5 6 6 6 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9	rm the absence of atures Type ¹ C C C C C C C C C C C C C	of indicators.) <u>Loc²</u> <u>M</u> <u>PL</u> <u>2</u> Location: PL: 2 ² Location: PL: 490, RA 149A, 153C,	Texture Silt Loam Silt Loam Silt Loam Indicators for Problem Carbon Muck (A9) Carbon Muck (A10) Reduced Vertic (Piedmont Floodp Anomalous Brigh (MLRA 153B) Red Parent Mate Very Shallow Dai Other (Explain in ³ Indicators of hydrology mus problematic.	Re matic Hydric Soils LRR O) (LRR S) F18) (outside MLI lain Soils (F19) (LI t Loamy Soils (F20) rial (TF2) rk Surface (TF12) Remarks) hydrophytic vegeta t be present, unler	marks and the second s
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A positive indicati SOIL Profile Descripti Depth (inches) 0-1 1-16 'Type: C=Concer Hydric Soils Indi Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified La Organic Bo 5 cm Mucky Muck Prese 1 cm Muck X Depleted B Thick Dark Coast Prair Sandy Muc Sandy Muc Sandy Muc Sandy Red Stripped Ma Dark Surfac Restrictive Layer Type: Depth (inc	on: (Describe to the matrix Color (moist) 10YR 3/2 10YR 3/2 10YR 5/2 mtration, D=Depletion, F icators: (Applicable t 1) edon (A2) c (A3) Sulfide (A4) ayers (A5) idies (A6) (LRR P, T, U y Mineral (A7) (LRR P, ence (A8) (LRR U) (A9) (LRR P, T) elow Dark Surface (A12) ie Redox (A16) (MLRA ky Mineral (S1) (LRR C) ie Redox (A16) (MLRA ky Mineral (S1) (LRR C) ie Redox (A16) (MLRA ie Redox (A16) (MLR	y was observed (depth needed to 	(at least one primar Color (moist) None 7.5YR 4/6 10YR 5/8 10YR 5/8 atrix, MS=Masked S ses otherwise note Polyva Thin D Loamy Loamy X Deplet Redox Deplet Redox Deplet Iron-M Umbrid Deplet Reduc Polyta	ry indicator).	rm the absence of atures Type ¹ C C C C C C C C C C C C C	of indicators.) <u>Loc²</u> <u>M</u> <u>PL</u> <u>2</u> Location: PL: 2Location: PL: 49A) RA 149A, 153C, Hyd	Texture Silt Loam Silt Loam Silt Loam	Re	marks
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			Absolute %	Dominant	Indicator	Dominance Test worksheet:
			cover	Species	Status	
ee Stratum	(Plot size:	<u>30 ft.</u>)				Number of Dominant Species
Nyssa aquatica			20	Yes	OBL	That Are OBL, FACW, or FAC: <u>5</u> (A)
Quercus phellos			15	Yes	FACW	
Ulmus americana			10	<u>No</u>	FAC	Total Number of Dominant
Liquidambar styrac	citiua		10	NO	FAC	Species Across All Strata:6 (B)
						Devent of Developmin of Consider
		······		Total Cover		That Are ORL EACIW or EAC:
		E0% of total anyon		20% of total cover	11	
			. 21.5	20% of total cover.		
oling Stratum	(Plot size:	30 ft)				Prevalence Index Worksheet:
llex decidua		<u> </u>	3	Ves	FACW	Total % Cover of: Multiply by:
				100	171011	$OBI \text{ species} \qquad 20 \qquad x1 = 20$
						$\frac{19}{100} = \frac{19}{100} = 1$
				·		FAC species 10 $x_2 = 30$
						$\frac{1}{20} = \frac{1}{20} = \frac{1}{20}$
						$\frac{1}{1} \frac{1}{1} \frac{1}$
			3 =	Total Cover		Column Totals: 61 (A) 125
		50% of total cover	: 1.5	20% of total cover:	0.6	
				2070 01 10101 001011	0.0	
rub Stratum	(Plot size:	30 ft.)				Prevalence Index = B/A = 2.05
Triadica sebifera		,	1	Yes	FAC	
						Hydrophytic Vegetation Indicators:
						1 - Rapid Test for Hydrophytic Vegetation
						X 2 - Dominance Test is >50%
						X 3 - Prevalence Index is $\leq 3.0^1$
						Problematic Hydrophytic Vegetation ¹ (Explain)
			1 =	Total Cover		
		50% of total cover	: 0.5	20% of total cover:	0.2	¹ Indicators of hydric soil and wetland hydrology must
						be present, unless disturbed or problematic.
erb Stratum	(Plot size:	30 ft.)				
None Observed						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,
				Total Cover		approximately 3 to 20 ft (1 to 6 m) in height.
		50% of total cover	:	20% of total cover:		
						Herb - All herbaceous (non-woody) plants, including
						herbaceous vines, regardless of size, and woody
oody Vine Stratum	(Plot size:	30 ft.)			FAC	plants, except woody vines, less than approximately
oody Vine Stratum Toxicodendron rad	(Plot size:	<u> </u>	2	Yes		
oody Vine Stratum _Toxicodendron rad	(Plot size: <i>lican</i> s	<u> </u>	2	Yes		2 ft (1 m) in height.
oody Vine Stratum Toxicodendron rad	(Plot size: <i>licans</i>	30_ft)	2	Yes		2 ft (1 m) in height.
oody Vine Stratum Toxicodendron rad	(Plot size: <i>licans</i>	30_ft)	2	Yes		2 ft (1 m) in height. Woody vine - All woody vines, regardless of height.
oody Vine Stratum Toxicodendron rad	(Plot size: dicans	30_ft)	2	Yes		2 ft (1 m) in height. Woody vine - All woody vines, regardless of height.
Coody Vine Stratum Toxicodendron rad	(Plot size: licans)	 2 ==	Yes Total Cover		2 ft (1 m) in height. Woody vine - All woody vines, regardless of height. Hydrophytic
Coody Vine Stratum Toxicodendron rad	(Plot size: licans	30 ft)	2 	Yes Total Cover 20% of total cover:	0.4	2 ft (1 m) in height. Woody vine - All woody vines, regardless of height. Hydrophytic Vegetation
Coody Vine Stratum Toxicodendron rad	(Plot size: ticans	30 ft)	2 	Total Cover 20% of total cover:	0.4	2 ft (1 m) in height. Woody vine - All woody vines, regardless of height. Hydrophytic Vegetation Present? Yes X No



Site: Bob Anthony Parkway Relocation

Location: Jackson, Madison County, MS

Photo No: 24

Date: 07/12/2023

Description: Wetland determination Data Point 12 looking east-northeast.



Project/Site:	Bob Anth	ony Parkway Re	location	Соц	unty:	Madison	Sampling	Date:	July 12, 2023
Applicant/Owner:	١	Vississippi Depa	rtment of Transpo	rtation	Stat	e: <u>N</u>	lississippi Sample F	oint:	DP13
Investigator(s):	Savannah R. Moral	les and	Bettie Shoe	emaker s	Section, Township	, Range:	5	502, T6N, R2E	
Landform (hillslope, terrace, e	etc.):	Undu	ulating Plane		Local relief (cond	ave, convex, none)	: Convex	Slope (%):	0-5
Subregion (LRR or MLRA):		LRR I	P, MLRA 134		Lat: 32.	. <u>39995</u> Lo	ong: <u>-90.07150</u>	Datum:	NAD 83
Are climatic / hydrologic cond	litions on the site tyr	nical for this time	of year?	OUT association	(es / No)	Yes	(if no, explain in Remark	(s)	FFUTA
Are Vegetation	No ,Soil I	No ,or Hydro	ology No	significantly	disturbed?	Are "Normal Circ	umstances" present?	Yes	X No
Are Vegetation	No ,Soil I	No ,or Hydro	ology No	naturally pro	oblematic?	(If ne	eded, explain any answe	rs in Remarks.)	
SUMMARY OF FIND	INGS - Attach	site map sl	nowing samp	ling point lo	ocations, tra	nsects, impor	tant features, etc.		
Hydrophytic Vegetation Pres	sent?	Yes	No	x					
Hydric Soil Present?		Yes	No	Х	Is the Sampled	l Area			
Wetland Hydrology Present	?	Yes	No	X	within a Wetla	nd?	Yes	No	x
Remarks:					•				
This point was determine	ned not to be within	a wetland due to	o the lack of all thre	ee wetland criteri	a.				
HYDROLOGY									
Wetland hydrology In	dicators:						Secondary Indicators (n	ninimum of two rea	quired)
Primary Indicators (min	nimum of one is requ	iired; check all th	nat apply)				Surface Soil Cra	cks (B6)	
Surface Water	(A1)		Aquati	c Fauna (B13)			Sparsely Vegeta	ted Concave Sur	ace (B8)
High Water Tab	ble (A2)		Marl D	eposits (B15) (L	RR U)		Drainage Patterr	1s (B10)	
Water Marks (F	31)			ed Rhizospheres	(CT)	C3)	Moss Thin Lines	ter Table (C2)	
Sediment Depo	osits (B2)		Preser	nce of Reduced I	ron (C4)	00)	Cravfish Burrow	s (C8)	
Drift Deposits (B3)		Recen	t Iron Reduction	in Tilled Soils (C6	i)	Saturation Visibl	e on Aerial Image	ry (C9)
Algal Mat or Cr	ust (B4)		Thin M	luck Surface (C7)		Geomorphic Pos	sition (D2)	
Iron Deposits (I	B5)		Other	(Explain in Rema	ırks)		Shallow Aquitare	i (D3)	
Inundation Visit	ble on Aerial Imager	y (B7)					FAC-Neutral Tes	st (D5)	
Water-Stained	Leaves (B9)						Sphagnum moss	s (D8) (LRR I, U)	
Field Observations:									
Surface Water Present?	Yes	No	<u>x</u>	Depth (inches):	<u>N/A</u>	Wetland Hydrol	ogy Present?	Yes	No <u></u>
Saturation Present?	Yes		<u>x</u>	Depth (inches):	>16				
Describe Recorded Da	ita (stream gauge, n	nonitoring well, a	erial photos, previ	ous inspections).	if available:	1			
		0		. ,					
Remarks:									
No positive indication of	of wetland hydrology	was observed.							
SOIL									
Drofile Description:	(Deceribe to the de	with mondaid to a	dooumont the inc	liaatar ar aanfir	m the cheenes o	findiactory)			
Profile Description: (Describe to the de Matrix	pth needed to (accument the inc	Redox Fea	m the absence o	of indicators.)			
(inches) C	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Re	emarks
0-3	10YR 3/4	100	None	_			Silt Loam		
3-12	10YR 4/4	100	None				Silt Loam	-	
12-16	10YR 6/6	100	None				Silt Loam		<u> </u>
<u> </u>	<u> </u>								
¹ Type: C=Concentratio	on D=Depletion RM		ix MS=Masked Sa	and Grains		² Location: PL=Pr	ore Lining M=Matrix		
Hydric Soils Indicator	rs: (Applicable to	all LRRs, unles	s otherwise note	d.)			Indicators for Problem	atic Hydric Soils	3:
Histosol (A1)		,.	Polyvalu	ue Below Surface	e (S8) (LRR S, T,	U)	1 cm Muck (A9) (I	LRR O)	
Histic Epipedon	(A2)		Thin Da	rk Surface (S9) (LRR S, T, U)		2 cm Muck (A10)	(LRR S)	
Black Histic (A3)			Loamy I	Mucky Mineral (F	1) (LRR O)		Reduced Vertic (F	18) (outside ML	RA 150A,B)
Hydrogen Sulfide	e (A4)		Loamy	Gleyed Matrix (F	2)		Piedmont Floodpl	ain Soils (F19) (L	RR P, S, T)
Stratified Layers	(A5)		Deplete	d Matrix (F3)			Anomalous Bright	Loamy Soils (F20))
5 cm Mucky Min	(A0) (LRR P, I, U) eral (A7) (IRR P T	IN		Jark Suriace (Fo d Dark Surface () F7)		(MLKA 153B) Red Parent Mater	ial (TE2)	
Muck Presence	(A8) (LRR U)	, 0,	Depiete	u Daik Suilace (F7)			iai (11-2)	
1 cm Muck (A9)	· · · ·		Redox L	Depressions (F8))		Verv Shallow Dar	K Surface (TFTZ)	
Depleted Below	(LRR P, T)		Redox I Marl (F	Depressions (F8) 10) (LRR U))		Very Shallow Dar Other (Explain in	Remarks)	
	(LRR P, T) Dark Surface (A11)		Redox I Marl (F ² Deplete	Depressions (F8) 10) (LRR U) d Ochric (F11) (I) MLRA 151)		Very Shallow Darl	Remarks)	
Thick Dark Surfa	(LRR P, T) Dark Surface (A11) ace (A12)		Redox I Marl (F [*] Deplete Iron-Ma	Depressions (F8) 10) (LRR U) d Ochric (F11) (I nganese Masses) MLRA 151) s (F12) (LRR O, I	Р, Т)	Very Shallow Dari Other (Explain in ³ Indicators of h	Remarks) Networks) Nydrophytic vegeta	ation and wetland
Thick Dark Surfa	(LRR P, T) Dark Surface (A11) ace (A12) adox (A16) (MLRA 1	50A)	Redox I Marl (F' Deplete Iron-Ma Umbric	Depressions (F8) 10) (LRR U) d Ochric (F11) (I nganese Masses Surface (F13) (L) MLRA 151) s (F12) (LRR O, I RR P, T, U)	P, T)	Very Shallow Dari Other (Explain in ³ Indicators of h hydrology mus problematic.	Remarks) Nydrophytic vegeta t be present, unle	ation and wetland ss disturbed or
Thick Dark Surfa Coast Prairie Re Sandy Mucky Mi	(LRR P, T) Dark Surface (A11) ace (A12) dox (A16) (MLRA 1 ineral (S1) (LRR 0,	50A) S)	Redox I Marl (F' Deplete Iron-Ma Umbric Delta O	Depressions (F8) 10) (LRR U) d Ochric (F11) (I nganese Masses Surface (F13) (L chric (F17) (MLR d Vortig (F19) (MLR) MLRA 151) s (F12) (LRR O, I RR P, T, U) RA 151)	P, T)	Very Shallow Dari Other (Explain in ³ Indicators of h hydrology mus problematic.	Remarks) Nydrophytic vegeta t be present, unle	ation and wetland ss disturbed or
Thick Dark Surfa Coast Prairie Re Sandy Mucky Mi Sandy Gleyed M Sandy Redov (S	(LRR P, T) Dark Surface (A11) ace (A12) adox (A16) (MLRA 1 ineral (S1) (LRR 0, latrix (S4) 5)	50A) S)	Medox I Mari (F ⁻ Deplete Iron-Ma Umbric Delta O Reduce Piedmo	Depressions (F8) 10) (LRR U) d Ochric (F11) (I nganese Masses Surface (F13) (L chric (F17) (MLF d Vertic (F18) (N nt Floodplain Spi) s (F12) (LRR O, I RR P, T, U) RA 151) ILRA 150A, 150B Is (F19) (MLRA 1	P, T))) 49A)	Very Shallow Dari Other (Explain in ³ Indicators of h hydrology mus problematic.	Remarks) Nydrophytic vegeta t be present, unle	ation and wetland ss disturbed or
Thick Dark Surfa Coast Prairie Re Sandy Mucky Mi Sandy Gleyed M Sandy Redox (S Stripped Matrix ((LRR P, T) Dark Surface (A11) ace (A12) dox (A16) (MLRA 1 ineral (S1) (LRR 0, latrix (S4) 5) (S6)	50A) S)	Medox I Mari (F' Deplete Iron-Ma Umbric Delta O Reduce Piedmo Anomal	Depressions (F8) 10) (LRR U) d Ochric (F11) (I nganese Masses Surface (F13) (L chric (F17) (MLF d Vertic (F18) (N nt Floodplain Soi ous Bright Loam) s (F12) (LRR O, I RR P, T, U) RA 151) ILRA 150A, 150B Is (F19) (MLRA 1 y Soils (F20) (MLI	P, T))) 49A) RA 149A, 153C, 15	Very Shallow Dari Other (Explain in ³ Indicators of h hydrology mus problematic. 3D)	Remarks) wdrophytic vegeta t be present, unle	ation and wetland ss disturbed or
Thick Dark Surfa	(LRR P, T) Dark Surface (A11) ace (A12) dox (A16) (MLRA 1 ineral (S1) (LRR 0, latrix (S4) 5) (S6) 7) (LRR P, S, T, U)	50A) S)	Nedox iNari (F'DepleteIron-MaUmbricDelta OReducePiedmoAnomal	Depressions (F8) 10) (LRR U) d Ochric (F11) (I nganese Masses Surface (F13) (L chric (F17) (MLR d Vertic (F18) (N nt Floodplain Soi ous Bright Loam	MLRA 151) s (F12) (LRR O, I RR P, T, U) XA 151) ILRA 150A, 150B is (F19) (MLRA 1 y Soils (F20) (MLI	P, T) 3) 49A) RA 149A, 153C, 15	Very Shallow Dari Other (Explain in ³ Indicators of h hydrology mus problematic. 3D)	k Surface (TFT2) Remarks) hydrophytic vegeta t be present, unle	ation and wetland ss disturbed or
Thick Dark Surfa Coast Prairie Re Sandy Mucky Mi Sandy Gleyed M Sandy Redox (S Stripped Matrix (Dark Surface (S) Restrictive Layer (if o	(LRR P, T) Dark Surface (A11) ice (A12) idox (A16) (MLRA 1 ineral (S1) (LRR 0, latrix (S4) 5) (S6) 7) (LRR P, S, T, U) ibserved):	50A) S)	Redox I Mari (F' Deplete Iron-Ma Umbric Delta O Reduce Piedmo Anomal	Jepressions (F8) IO) (LRR U) d Ochric (F11) (I nganese Massee Surface (F13) (L chric (F17) (MLR d Vertic (F18) (N ht Floodplain Soi ous Bright Loam	MLRA 151) s (F12) (LRR O, I RR P, T, U) XA 151) ILRA 150A, 150B Is (F19) (MLRA 1 y Soils (F20) (MLI	P, T) 3) 49A) RA 149A, 153C, 15	Very Shallow Dari Other (Explain in ³ Indicators of h hydrology mus problematic. 3D)	Remarks)	ation and wetland ss disturbed or
Thick Dark Surfa Coast Prairie Re Sandy Mucky Mi Sandy Gleyed M Sandy Redox (S Stripped Matrix (Dark Surface (S) Restrictive Layer (if o Type:	(LRR P, T) Dark Surface (A11) iace (A12) idox (A16) (MLRA 1 ineral (S1) (LRR 0, latrix (S4) 5) S6) 7) (LRR P, S, T, U) ibserved):	50A) S)	Redox I Mari (F' Deplete Iron-Ma Umbric Delta O Reduce Piedmo Anomal	Jepressions (F8) IO) (LRR U) d Ochric (F11) (I nganese Massee Surface (F13) (L chric (F17) (MLR d Vertic (F18) (W nt Floodplain Soi ous Bright Loam	MLRA 151) s (F12) (LRR O, I RR P, T, U) KA 151) ILRA 150A, 150B Is (F19) (MLRA 1 y Soils (F20) (MLI	P, T) 3) 49A) RA 149A, 153C, 15	Very Shallow Dari Other (Explain in ³ Indicators of h hydrology mus problematic. 3D)	Remarks)	ation and wetland ss disturbed or
Thick Dark Surfa Coast Prairie Re Sandy Mucky Mi Sandy Gleyed M Sandy Redox (S Stripped Matrix (Dark Surface (S) Restrictive Layer (if o Type: Depth (inches)	(LRR P, T) Dark Surface (A11) ace (A12) dox (A16) (MLRA 1 neral (S1) (LRR 0, latrix (S4) 5) S6) 7) (LRR P, S, T, U) bbserved):	50A) S)	Redox II	Jepressions (F8) i0) (LRR U) d Ochric (F11) (I nganese Masses Surface (F13) (L chric (F17) (MLF d Vertic (F18) (N nt Floodplain Soi ous Bright Loam	MIRA 151) 6 (F12) (LRR O, I RR P, T, U) RA 151) IIRA 150A, 150B Is (F19) (MLRA 1 y Soils (F20) (MLI	P, T) i) 49A) RA 149A, 153C, 15 Hydric	Very Shallow Dari Other (Explain in ³ Indicators of h hydrology mus problematic. 3D) Soil Present? Yes	Remarks) sydrophytic vegeta t be present, unle	tion and wetland ss disturbed or
Thick Dark Surfa Coast Prairie Re Sandy Mucky Mi Sandy Gleyed M Sandy Redox (S Stripped Matrix (Dark Surface (S) Restrictive Layer (if o Type: Depth (inches) Remarks:	(LRR P, T) Dark Surface (A11) ice (A12) idox (A16) (MLRA 1 ineral (S1) (LRR 0, latrix (S4) 5) S6) 7) (LRR P, S, T, U) ibserved):	50A) S)	Redox I Marl (F' Deplete Iron-Ma Umbric Delta O Reduce Piedmo Anomal	Jepressions (F8) i0) (LRR U) d Ochric (F11) (I nganese Masses Surface (F13) (L chric (F17) (MLF d Vertic (F18) (N nt Floodplain Soi ous Bright Loam	MLRA 151) s (F12) (LRR O, I RR P, T, U) &A 151) ILRA 150A, 150B Is (F19) (MLRA 1 y Soils (F20) (MLI	P, T) i) 49A) RA 149A, 153C, 15 Hydric	Very Shallow Dari Other (Explain in ³ Indicators of h hydrology mus problematic. 3D)	Remarks) sydrophytic vegeta t be present, unle	tion and wetland ss disturbed or
Thick Dark Surfa Coast Prairie Re Sandy Mucky Mi Sandy Gleyed M Sandy Gleyed M Sandy Redox (S Stripped Matrix (Dark Surface (S' Restrictive Layer (if o Type: Depth (inches) Remarks: No positive indication of	(LRR P, T) Dark Surface (A11) ice (A12) idox (A16) (MLRA 1 ineral (S1) (LRR 0, latrix (S4) 5) S6) 7) (LRR P, S, T, U) ibserved): : :	50A) S)	Redox IMarl (F'Iron-MaUmbricDelta OReducePiedmoAnomal	Jepressions (F8) i0) (LRR U) d Ochric (F11) (I nganese Masses Surface (F13) (L chric (F17) (MLF d Vertic (F18) (N nt Floodplain Soi ous Bright Loam	MLRA 151) s (F12) (LRR O, I RR P, T, U) RA 151) ILRA 150A, 150B Is (F19) (MLRA 1 y Soils (F20) (MLI	P, T) i) 49A) RA 149A, 153C, 15 Hydric	Very Shallow Dari Other (Explain in 'Indicators of h hydrology mus problematic.	Remarks) Nydrophytic vegeta to present, unle	tion and wetland ss disturbed or

Tree Stratum (Plot size: <u>30 ft.</u>) 1. Carya glabra 2. Quercus pagoda 3	Absolute % cover 80	Dominant Species	Indicator Status	Dominance Test worksheet: Number of Dominant Species	
Tree Stratum (Plot size: <u>30 ft.</u>) 1. Carya glabra 2. Quercus pagoda 3.	80	¥		Number of Dominant Species	
1. Carya glabra 2. Quercus pagoda 3.	80	¥		1	
2. <u>Quercus pagoda</u> 3		res	FACU	That Are OBL, FACW, or FAC:	2 (A)
3	15	No	FAC		
				Total Number of Dominant	
4				Species Across All Strata:	5 (B)
5					
δ				Percent of Dominant Species	
	95	= Total Cover		That Are OBL, FACW, or FAC:	40% (A/B)
50% of total cov	er: 47.5	20% of total cover:	19		
				Prevalence Index Worksheet:	
<u>Sapling Stratum</u> (Plot size: <u>30 ft.</u>)	5		5400	T tal % Orwar of	A Marketon
1. Carya glabra		Yes	FACU		
2. <u>Ilex decidua</u>	3	Yes	FACvv	OBL species U	x1= <u>u</u>
3				FACW species 18	x 2 = <u>36</u>
f				FAC species 110	x 3 = <u>330</u>
5				FACU species 8/	x 4 = <u>348</u>
5		T-1-1 0ar		UPL species U	x5= U
E00/ of total activ	<u> </u>	= Total Cover	4.0		(A) <u>/14</u> (D
	er: 4	20% of total cover.	1.6		
<u>Shrub Stratum</u> (Plot size: <u>30 ft.</u>)				Prevalence Index = B/A =	3.32
1. <u>Callicarpa americana</u>	2	Yes	FACU		
-				Hydrophytic Vegetation Indicators:	
3			<u> </u>	1 - Rapid Lest for Hydrophytic v	/egetation
-			<u> </u>	2 - Dominance Test is >50%	
5			<u> </u>	<u>3 - Prevalence index is ≥ 3.0</u>	e 1/m
5		T-1-1 0ar			ition' (Explain)
E00/ of total activ	2	= Total Cover	0.4	¹ Indicators of hydric coil and wotland hydr	
	er:		0.4	be present, unless disturbed or problematic	2.
<u>Herb Stratum</u> (Plot size: <u>30 ft.</u>)					
1. Chasmanthium sessiliflorum	80	Yes	FAC	Definitions of Five Vegetation Strata:	
2. <u>Arundinaria tecta</u>	15	No	FACW		
3. <u>Lackeya multiflora</u>	15	No	FAC	Tree - Woody plants, excluding woody vine	es,
4 -				approximately 20 π (6m) or more in neight a	and 3 in.
5				(7.6 cm) or larger in diameter at breast neig	jht (DBH).
7				Sapling - Woodv plants, excluding woody	vines.
0				approximately 20 ft (6 m) or more in height	and less
o.				than 3 in. (7.6 cm) DBH.	
a					
J				Shrub - Woody plants, excluding woody vir	nes.
	110	- Total Cover		approximately 3 to 20 ft (1 to 6 m) in height	
50% of total cou		20% of total covor:		, , , ,	
50% 01 101al COV	er. <u>55</u>	20% of total cover.		Herb - All herbaceous (non-woody) plants,	including
Moody Vine Stratum (Plot size: 20 ft)				herbaceous vines, regardless of size, and	woody
1 None Observed				plants, except woody vines, less than appre	oximately
				2 ft (1 m) in height.	,
۵					
1		·		Woody vine - All woody vines, regardless	of height.
* 5			·		Ũ
		= Total Cover		Hydrophytic	
		20% of total cover:		Vegetation	
50% of total cov	ei	20/0 01 total cover.		vegetation	
50% of total cov				Brocont? Voc	No Y
50% of total cov				Present? Yes	No <u>X</u>
50% of total cov	holow)			Present? Yes	No <u>X</u>
50% of total cov Remarks: (if observed, list morphological adaptations	below).			Present? Yes	No <u>X</u>



Site: Bob Anthony Parkway Relocation

Location: Jackson, Madison County, MS

Photo No: 26

Date: 07/12/2023

Description: Wetland determination Data Point 13 looking west.



Project/Site:	Bob Ant	thony Parkway R	elocation	Co	ounty:	Rankin	Sampling	Date:	July 12, 2023
Applicant/Owner:		Mississippi Dep	partment of Transpo	ortation	Stat	te:	Mississippi Sample	Point:	DP14
Investigator(s):	Savannah R. Mor	ales and	d Bettie Sho	oemaker	Section, Township	p, Range:		S02, T6N, R2E	
Landform (hillslope, terrace	e, etc.):	Depi	ression/Slough		Local relief (con	cave, convex, nor	ne): Concave	Slope (%):	0-5
Subregion (LRR or MLRA)	: <u> </u>	LRR	R P, MLRA 134		Lat:32	.39504	Long: -90.06349	Datum:	NAD 83
Soil Map Unit Name:		Cas	cilla-Arkabutla ass	ociation, frequen	itly flooded	X	NWI Classification:	· · · · · · · · · · · · · · · · · · ·	N/A
Are climatic / hydrologic co	No Soil	Vpical for this tim	ie of year?	((Yes / No)	Yes Aro "Normal Ci	(If no, explain in Remar	KS.) Voc	Y No
Are Vegetation	<u>No</u> ,30il	No or Hyd	irology <u>No</u>	naturally n	roblematic?	Are Normai Ci	needed explain any answe	res	
SUMMARY OF FIN	DINGS - Attacl	h site map s	showing sam	plina point l	locations. tra	insects. imp	ortant features. etc		
Hydrophytic Vogotation P	rocont?	Voc V	No	JI	1	····, .	· · · · · · · · · · · · · · · · · · ·		
Hydrophylic Vegetation P Hydric Soil Present?	resent?	Yes X	No		Is the Sample	d Area			
Wetland Hydrology Prese	ent?	Yes X	No		within a Wetla	ind?	Yes X	No	
- · ·									
Remarks: This point was deter	mined to be within a	wetland due to th	ne presence of all t	hree wetland crit	eria.				
Wetland bydrology	Indicators								
Wettand Hydrology	indicators.						Secondary Indicators (minimum of two req	quired)
Primary Indicators (n	ninimum of one is rec	quired; cneck all	that apply)	tic Found (P12)			Surface Soll Cr	acks (Bb) atod Concovo Surf	aco (P8)
Surface water	EI (AI) Fable (A2)		Aquai Marl [ис гаина (втэ) Denosits (В15) (I	RR II)		Drainage Patter	ne (B10)	
X Saturation (A	(3)		Hvdro	aen Sulfide Oda	or (C1)		Moss Trim Line	s (B16)	
Water Marks	(B1)		Oxidiz	zed Rhizosphere	s on Living Roots((C3)	Drv-Season Wa	iter Table (C2)	
Sediment De	posits (B2)		Prese	ence of Reduced	Iron (C4)	()	X Crayfish Burrov	rs (C8)	
Drift Deposits	s (B3)		Recei	nt Iron Reductior	n in Tilled Soils (C6	3)	Saturation Visib	le on Aerial Imager	ry (C9)
Algal Mat or	Crust (B4)		Thin M	Muck Surface (C	7)		X Geomorphic Po	sition (D2)	
Iron Deposits	s (B5)		Other	(Explain in Rem	arks)		Shallow Aquitar	d (D3)	
Inundation Vi	isible on Aerial Image	ery (B7)					X FAC-Neutral Te	st (D5)	
Water-Staine	ed Leaves (B9)						Sphagnum mos	s (D8) (LRR T, U)	
Field Observations:									
Surface Water Present?	Yes	X No		Depth (inches):	2	Wetland Hydr	rology Present?	Yes X	No
Water Table Present?	Yes	No	x	Depth (inches):	>16				
Saturation Present?	Yes	X No		Depth (inches):	0				
Describe Recorded I	Data (stream gauge,	monitoring well,	aerial photos, prev	vious inspections), if available:				
Bomarka									
rtemarko.									
A positive indication	of wetland hydrology	/ was observed (at least one primar	y indicator).					
A positive indication	of wetland hydrology	/ was observed (at least one primar	ry indicator).					
A positive indication SOIL Profile Description	of wetland hydrology	v was observed (at least one primar	y indicator).	irm the absence o	of indicators.)			
A positive indication SOIL Profile Description	of wetland hydrology : (Describe to the o Matrix	v was observed (at least one primar	y indicator). dicator or confi Redox Fe	irm the absence o	of indicators.)			
A positive indication SOIL Profile Description: Depth (inches)	of wetland hydrology : (Describe to the of Matrix Color (moist)	v was observed (depth needed to	at least one primar document the in Color (moist)	y indicator). dicator or confi Redox Fe %	irm the absence of atures Type ¹	of indicators.)	Texture	Re	emarks
A positive indication SOIL Profile Description: Depth (inches) 0-16	of wetland hydrology : (Describe to the o Matrix Color (moist) 5BG 4/1	v was observed (depth needed to 	at least one primar document the in <u>Color (moist)</u> 5Y 5/1	y indicator). dicator or confi Redox Fe <u>%</u> 50	irm the absence of atures	of indicators.)	Texture Sandy Loam	Re	emarks
A positive indication SOIL Profile Description Depth (inches) 0-16	of wetland hydrology : (Describe to the o Matrix Color (moist) 5BG 4/1	/ was observed (depth needed to 	at least one primar o document the in <u>Color (moist)</u> <u>5Y 5/1</u> 7.5YR 5/6	y indicator). dicator or confi Redox Fe % 50 20	irm the absence of atures <u>Type1</u> <u>D</u> C	of indicators.) Loc ² M M	Texture Sandy Loam	Re	emarks
A positive indication SOIL Profile Description Depth (inches) 0-16	of wetland hydrology : (Describe to the o Matrix Color (moist) 5BG 4/1	y was observed (at least one primar o document the in Color (moist) 5Y 5/1 7.5YR 5/6	y indicator). dicator or confi Redox Fe <u>%</u> 50 20	irm the absence of atures <u>Type¹</u> <u>D</u> C	of indicators.) Loc ² M M M	Texture Sandy Loam	Re	emarks
A positive indication SOIL Profile Description Depth (inches) 0-16	of wetland hydrology : (Describe to the o Matrix Color (moist) 5BG 4/1	/ was observed (depth needed to 	at least one primar o document the in Color (moist) 5Y 5/1 7.5YR 5/6	y indicator). dicator or confi Redox Fe % 50 20	irm the absence of atures 	of indicators.) Loc ² M M 	Texture Sandy Loam	Re	emarks
A positive indication SOIL Profile Description: Depth 0-16	of wetland hydrology : (Describe to the o Matrix Color (moist) 5BG 4/1 	/ was observed (at least one primar o document the in Color (moist) 5Y 5/1 7.5YR 5/6	y indicator).	irm the absence of latures 	Def indicators.)	Texture Sandy Loam	Re	emarks
A positive indication SOIL Depth O-16 O-16 O-16 O-16 O-16 O-16 O-16 O-16	of wetland hydrology : (Describe to the o Matrix Color (moist) 5BG 4/1 ation, D=Depletion, R term (Applicable to	/ was observed (at least one primar o document the in Color (moist) 5Y 5/1 7.5YR 5/6 trix, MS=Masked S	y indicator).	irm the absence of latures 	Def indicators.) <u>Loc²</u> <u>M</u> <u>M</u> <u></u>	Texture Sandy Loam	Re	emarks
A positive indication SOIL Depth O-16 O-16 O-16 O-16 O-16 O-16 O-16 O-16	of wetland hydrology : (Describe to the of Matrix Color (moist) 5BG 4/1 ation, D=Depletion, R tors: (Applicable to	depth needed to	at least one primar o document the in <u>Color (moist)</u> <u>5Y 5/1</u> 7.5YR 5/6 trix, MS=Masked S ss otherwise note Polyva	y indicator). dicator or confi Redox Fe % 50 0 0 0 Sand Grains. ed.) lure Below Surfar	irm the absence of iatures D C C C C C C C C C C C C C C C C C C	of indicators.) Loc ² M M 2Location: PL=	Texture Sandy Loam Pore Lining, M=Matrix. Indicators for Probler	Re	emarks
A positive indication SOIL Profile Description Depth O-16 O-16 O-16 O-16 O-16 O-16 O-16 O-16	of wetland hydrology : (Describe to the of Matrix Color (moist) 5BG 4/1 ation, D=Depletion, R tors: (Applicable to an (A2)	/ was observed (depth needed to 	at least one primar o document the in <u>Color (moist)</u> <u>5Y 5/1</u> 7.5YR 5/6 trix, MS=Masked S ss otherwise note Polyva Thin Dr	y indicator). dicator or confi Redox Fe <u>%</u> <u>20</u> <u>20</u> <u>20</u> <u>20</u> <u>30</u> <u>20</u> <u>40</u> <u>80</u> <u>80</u> Jue Below Surface (S9)	irm the absence of atures D C C C C C C C C C C C C C C C C C C	Def indicators.) Loc ² M M 2Location: PL= U)		Re	emarks
A positive indication SOIL Profile Description Depth O-16 O-16 O-16 O-16 O-16 O-16 O-16 O-16	of wetland hydrology : (Describe to the of Matrix Color (moist) 5BG 4/1 ation, D=Depletion, R tors: (Applicable to on (A2) (3)	/ was observed (depth needed to 	at least one primar o document the in Color (moist) 5Y 5/1 7.5YR 5/6 trix, MS=Masked S ss otherwise note Polyva Polyva Loamy	y indicator). dicator or confi Redox Fe <u>%</u> 20 20 20 20 20 20 20 20 20 20	irm the absence of iatures D C C C C C C C C C C C C C C C C C C	Def indicators.) Loc ² M M 2Location: PL= U)		Re Re Re Re Re Re Re Re Re Re Re Re Re R	2marks
A positive indication SOIL Profile Description: Depth O-16 O-16 O-16 O-16 O-16 O-16 O-16 O-16	of wetland hydrology : (Describe to the of Matrix Color (moist) 5BG 4/1 ation, D=Depletion, R tors: (Applicable to on (A2) N3) fide (A4)	/ was observed (depth needed to 	at least one primar b document the in Color (moist) 5Y 5/1 7.5YR 5/6 trix, MS=Masked S ss otherwise note Polyva Polyva Loamy X Loamy	y indicator). dicator or confi Redox Fe % 20 20 20 20 20 20 20 20 20 20	irm the absence of atures D C C C C C C C C C C C C C C C C C C	Def indicators.) Loc ² M M 2Location: PL= U)	Texture Sandy Loam Pore Lining, M=Matrix. Indicators for Probler 1 cm Muck (A9) 2 cm Muck (A10) Reduced Vertic (Piedmont Floodp	Re Re natic Hydric Soils (LRR O) (LRR S) F18) (outside MLI Jain Soils (F19) (LF	Pmarks
A positive indication SOIL Profile Description: Depth	of wetland hydrology (Describe to the of Matrix Color (moist) 5BG 4/1 ation, D=Depletion, R tors: (Applicable to on (A2) N3) fide (A4) rs: (A5)	/ was observed (depth needed to 	at least one primar b document the in Color (moist) 5Y 5/1 7.5YR 5/6 trix, MS=Masked S ss otherwise notePolyvaLoamyLoamyDeplete	y indicator). dicator or confi Redox Fe <u>%</u> <u>50</u> 20 20 20 20 20 20 20 20 20 20	irm the absence of atures D 	Def indicators.) Loc ² M M 2Location: PL= U)	Texture Sandy Loam Pore Lining, M=Matrix. Indicators for Probler 1 cm Muck (A9) 2 cm Muck (A10) Reduced Vertic (Piedmont Floodp Anomalous Brigh	Re natic Hydric Soils (LRR O) (LRR S) F18) (outside MLI lain Soils (F19) (LF t Loamy Soils (F20)	emarks
A positive indication SOIL Profile Description: Depth O-16 O-16 O-16 O-16 O-16 O-16 O-16 O-16	of wetland hydrology (Describe to the of Matrix Color (moist) 5BG 4/1 ation, D=Depletion, R tors: (Applicable to on (A2) N3) fide (A4) rs (A5) ss (A6) (LRR P, T, U)	/ was observed (depth needed to 	at least one primar o document the in Color (moist) 5Y 5/1 7.5YR 5/6 trix, MS=Masked S ss otherwise nott Polyva Polyva Loamy X Loamy Deplete Redox	y indicator). dicator or confi Redox Fe <u>%</u> <u>50</u> 20 20 20 20 20 20 20 20 20 20	irm the absence of atures D 	Def indicators.)	Texture Sandy Loam Pore Lining, M=Matrix. Indicators for Probler 1 cm Muck (A9) 2 cm Muck (A10) 2 cm Muck (A10) Reduced Vertic (Piedmont Floodp Anomalous Brigh (MLRA 153B)	Re Re Re Re Re Re Re Re Re Re	emarks
A positive indication SOIL Profile Description: Depth O-16 O-16 O-16 O-16 O-16 O-16 O-16 O-16	of wetland hydrology (Describe to the of Matrix Color (moist) 5BG 4/1 ation, D=Depletion, R tors: (Applicable to on (A2) X3) fide (A4) rs (A5) ss (A6) (LRR P, T, U) fineral (A7) (LRR P,	/ was observed (depth needed to 	at least one primar o document the in Color (moist) 5Y 5/1 7.5YR 5/6 trix, MS=Masked S ss otherwise note Polyva Polyva Loamy X Loamy X Loamy Deplete Redox Deplete	y indicator). dicator or confi Redox Fe <u>%</u> <u>50</u> 20 20 20 20 20 20 20 20 20 20	irm the absence of atures 	of indicators.) <u>Loc²</u> <u>M</u> <u>M</u> ² Location: PL=	Texture Sandy Loam Pore Lining, M=Matrix. Indicators for Probler 1 cm Muck (A9) 2 cm Muck (A10) Reduced Vertic (Piedmont Floodp Mormalous Brigh (MLRA 153B) Red Parent Mate	Re Re Re Re Re Re Re Re Re Re	marks 3: RA 150A,B) RR P, S, T)))
A positive indication SOIL Profile Description: Depth O-16 O-16 O-16 O-16 O-16 O-16 O-16 O-16	of wetland hydrology (Describe to the of Matrix Color (moist) 5BG 4/1 (Describe to the of SBG 4/1 (Describe to the of tors: (Applicable to on (A2) (A3) fide (A4) rs (A5) (LRR P, T, U) fineral (A7) (LRR P, te (A8) (LRR U)	/ was observed (depth needed to 30	at least one primar o document the in Color (moist) 5Y 5/1 7.5YR 5/6 trix, MS=Masked S ss otherwise note Polyva Thin Da Loamy X Loamy X Loamy Redox Deplete Redox	y indicator). dicator or confi Redox Fe <u>%</u> <u>50</u> 20 20 20 20 20 20 20 20 20 20	irm the absence of atures 	of indicators.) <u>Loc²</u> <u>M</u> <u>M</u> ² Location: PL=	Texture Sandy Loam Sandy Loam Indicators for Probler 1 cm Muck (A9) 2 cm Muck (A10) Reduced Vertic (Piedmont Floodp Anomalous Brigh (MLRA 153B) Red Parent Mate Very Shallow Da	Re Re Re Re Re Re Re Re Re Re	marks 3: RA 150A,B) RR P, S, T)))
A positive indication SOIL Profile Description: Depth O-16 O-16 O-16 O-16 O-16 O-16 O-16 O-16	of wetland hydrology (Describe to the of Matrix Color (moist) 5BG 4/1 ation, D=Depletion, R tors: (Applicable to on (A2) A3) fide (A4) rs: (A5) s (A6) (LRR P, T, U) fineral (A7) (LRR P, te (A8) (LRR U) 9) (LRR P, T)	/ was observed (depth needed to 	at least one primar o document the in Color (moist) 5Y 5/1 7.5YR 5/6 trix, MS=Masked S ss otherwise note Polyva Depleta Loamy X Loamy X Loamy Completa Redox Marl (F	y indicator). dicator or confi Redox Fe <u>%</u> <u>50</u> 20 20 20 20 20 20 20 20 20 20	irm the absence of atures 	of indicators.) <u>Loc²</u> <u>M</u> <u>M</u> ² Location: PL=	Texture Sandy Loam Sandy Loam Indicators for Probler 1 cm Muck (A9) 2 cm Muck (A10) Reduced Vertic (Piedmont Floodp Anomalous Brigh (MLRA 153B) Red Parent Mate Very Shallow Da Other (Explain in	Re Re Re Re Re Re Re Re Re Re	marks 3: RA 150A,B) RR P, S, T)))
A positive indication SOIL Profile Description: Depth O-16 O-16 O-16 O-16 O-16 O-16 O-16 O-16	of wetland hydrology (Describe to the of Matrix Color (moist) 5BG 4/1 ation, D=Depletion, R tors: (Applicable to on (A2) 33) fide (A4) ers (A5) (LRR P, T, U) timeral (A7) (LRR P, te (A8) (LRR U) 9) (LRR P, T) w Dark Surface (A11	/ was observed (depth needed to 	at least one primar o document the in <u>Sy 5/1</u> 7.5YR 5/6 <u>Trix, MS=Masked S</u> ss otherwise nott <u>Polyva</u> <u>Loamy</u> <u>X</u> Loamy <u>X</u> Loamy <u>Redox</u> <u>Deplett</u> <u>Mari (F</u> <u>Deplett</u>	y indicator). dicator or confi Redox Fe <u>%</u> <u>50</u> 20 20 20 20 20 20 20 20 20 20	irm the absence of atures D C C C C C C C C C C C C C	of indicators.) <u>Loc²</u> <u>M</u> <u>M</u> ² Location: PL=	Texture Sandy Loam Pore Lining, M=Matrix. Indicators for Probler 1 cm Muck (A9) 2 cm Muck (A10) 2 cm Muck (A10) Reduced Vertic (Piedmont Floodp Moreal Vertic (Piedmont Floodp MuRA 153B) Red Parent Mate Very Shallow Da Other (Explain in	Re Re Re Re Re Re Re Re Re Re	emarks
A positive indication SOIL Profile Description Depth O-16 O-16 O-16 O-16 O-16 O-16 O-16 O-16	of wetland hydrology (Describe to the of Matrix Color (moist) 5BG 4/1 ation, D=Depletion, F tors: (Applicable to on (A2) 3) fide (A4) ors (A5) (LRR P, T, U) timeral (A7) (LRR P, T) we (A8) (LRR U) 9) (LRR P, T) we Dark Surface (A11) rface (A12)	/ was observed (depth needed to 	at least one primar o document the in Color (moist) 5Y 5/1 7.5YR 5/6 Trix, MS=Masked S ss otherwise notte Polyva Thin Di Loamy X Loamy Deplete Redox Deplete Mari (F Deplete Iron-Ma	y indicator). dicator or confi Redox Fe <u>%</u> <u>50</u> 20 20 20 20 20 20 20 20 20 20	irm the absence of atures 	P, T)	Texture Sandy Loam Sandy Loam Sandy Loam Indicators for Probler Carn Muck (A10) Carn Much (A10	Re Re Re Re Re Re Re Re Re Re	marks marks a a a RA 150A,B) RR P, S, T) b) ation and wetland ss disturbed or
A positive indication SOIL Profile Description Depth O-16 O-16 O-16 O-16 O-16 O-16 O-16 O-16	of wetland hydrology (Color (moist) 5BG 4/1 5BG 4/1 ation, D=Depletion, F tors: (Applicable to on (A2) 3) fide (A4) ors (A5) (LRR P, T, U) timeral (A7) (LRR P, te (A8) (LRR U) 9) (LRR P, T) w Dark Surface (A11 frace (A12) Redox (A16) (MLRA	/ was observed (depth needed to 	at least one primar o document the in Color (moist) 5Y 5/1 7.5YR 5/6 Trix, MS=Masked S ss otherwise notte Polyva Thin Di Loamy X Loamy Deplete Redox Deplete Marl (F Deplete Iron-Mi Umbric	y indicator). dicator or confi Redox Fe <u>%</u> <u>50</u> 20 20 20 20 20 20 20 20 20 20	irm the absence of atures 	Df indicators.)	Texture Sandy Loam Sandy Loam Indicators for Probler 1 cm Muck (A9) 2 cm Muck (A10) Reduced Vertic (Piedmont Floodp Mick Atosas (MLRA 1538) Red Parent Mate Very Shallow Da Other (Explain in ³ Indicators of hydrology mu problematic.	Re Re Re Re Re Re Re Re Re Re	amarks amarks
A positive indication SOIL Profile Description Depth O-16 O-16 O-16 O-16 O-16 O-16 O-16 O-16	of wetland hydrology (Color (moist) 5BG 4/1 5BG 4/1 ation, D=Depletion, F tors: (Applicable to on (A2) 3) fide (A4) ers (A5) (LRR P, T, U) timeral (A7) (LRR P, te (A8) (LRR U) 9) (LRR P, T) w Dark Surface (A11 rface (A12) Redox (A16) (MLRA Mineral (S1) (LRR P)	/ was observed (depth needed to 	at least one primar o document the in Color (moist) 5Y 5/1 7.5YR 5/6 Trix, MS=Masked S ss otherwise note Polyva Thin Di Loamy X Loamy Deplete Redox Deplete Mari (F Deplete Iron-Mi Umbric Delta C	y indicator). dicator or confi Redox Fe <u>%</u> <u>50</u> 20 20 20 20 20 20 20 20 20 20	irm the absence of atures 	pf indicators.) <u>Loc²</u> <u>M</u> <u>M</u> ² Location: PL= U)	Texture Sandy Loam Sandy Loam Indicators for Probler 1 cm Muck (A9) 2 cm Muck (A10) Reduced Vertic (Piedmont Floodp Mick A 1538) Red Parent Mate Very Shallow Da Other (Explain in 3 ³ Indicators of hydrology mu problematic.	Re Re Re Re Re Re Re Re Re Re	emarks and the second
A positive indication SOIL Profile Description Depth O-16 O-16 O-16 O-16 O-16 O-16 O-16 O-16	of wetland hydrology (Describe to the of Matrix Color (moist) 5BG 4/1 ation, D=Depletion, F tors: (Applicable to on (A2) 3) fide (A4) ers (A5) es (A6) (LRR P, T, U) timeral (A7) (LRR P, ve (A8) (LRR U) 9) (LRR P, T) we Dark Surface (A11 rface (A12) Redox (A16) (MLRA O Mineral (S1) (LRR O Matrix (S4) (S5)	/ was observed (depth needed to 	at least one primar document the in Color (moist) 5Y 5/1 7.5YR 5/6 Trix, MS=Masked S ss otherwise nott Polyva Thin Di Loamy X Loamy X Loamy Deplete Redox Deplete Iron-Mi Umbric Delta C C Redouc	y indicator). dicator or confi Redox Fe <u>%</u> <u>50</u> 20 20 20 20 20 20 20 20 20 20	irm the absence of atures D _	Df indicators.)	Texture Sandy Loam Sandy Loam Indicators for Probler 1 cm Muck (A9) 2 cm Muck (A10) 2 cm Muck (A10) Reduced Vertic (Piedmont Floodp MuRA 153B) Red Parent Mate Very Shallow Da Other (Explain in 3 ¹ Indicators of hydrology mus problematic.	Re Re Re Re Re Re Re Re Re Re	emarks and the second
A positive indication SOIL Profile Description Depth O-16 O-16 O-16 O-16 O-16 O-16 O-16 O-16	of wetland hydrology (Color (moist) 5BG 4/1 5BG 4/1 ation, D=Depletion, F tors: (Applicable to on (A2) 3) fide (A4) ors (A5) (LRR P, T, U) timeral (A7) (LRR P, ve (A8) (LRR U) 9) (LRR P, T) w Dark Surface (A11 frace (A12) Redox (A16) (MLRA Mineral (S1) (LRR O (S5) x (S6)	/ was observed (depth needed to 	at least one primar document the in Color (moist) 5Y 5/1 7.5YR 5/6 Trix, MS=Masked S ss otherwise nott Polyva Thin Di Loamy X Loamy Deplete Redox Deplete Iron-Mi Umbric Delta C Polyma Redox	y indicator). dicator or confi Redox Fe <u>%</u> <u>50</u> 20 20 20 20 20 20 20 20 20 20	irm the absence of atures 	Pf indicators.)	Texture Sandy Loam Sandy Loam Indicators for Probler 1 cm Muck (A9) 2 cm Muck (A10) 2 cm Muck (A10) Reduced Vertic (Piedmont Floodp MuRA 153B Red Parent Mate Very Shallow Da Other (Explain in 3 Indicators of hydrology mus problematic.	Re Re Re Re Re Re Re Re Re Re	emarks and the second
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A positive indication SOIL Profile Description Depth O-16 O-16 O-16 O-16 O-16 O-16 O-16 O-16	of wetland hydrology (Color (moist) 5BG 4/1 5BG 4/1 ation, D=Depletion, F tors: (Applicable to on (A2) 3) fide (A4) ors (A5) (A) (LRR P, T, U) timeral (A7) (LRR P, ve (A8) (LRR U) 9) (LRR P, T) w Dark Surface (A11 frace (A12) Redox (A16) (MLRA Mineral (S1) (LRR O (S5) x (S6) (S7) (LRR P, S, T, U) (Contended)	/ was observed (depth needed to 	at least one primar o document the in Color (moist) 5Y 5/1 7.5YR 5/6 Trix, MS=Masked S ss otherwise nott Polyva Thin Di Loamy X Loamy X Loamy Deplete Redox Deplete Iron-Ma Umbric Delta C Piedmo Anoma	y indicator). dicator or confi Redox Fe <u>%</u> <u>50</u> 20 20 20 20 20 20 20 20 20 20	irm the absence of atures 	Df indicators.) <u>Loc²</u> <u>M</u> <u>M</u> <u>2</u> Location: PL= ² Location: PL= U) P, T) B) I49A) RA 149A, 153C,	Texture Sandy Loam Pore Lining, M=Matrix. Indicators for Probler 1 cm Muck (A9) 1 2 cm Muck (A10) Reduced Vertic (Piedmont Floodp (MLRA 153B) Red Parent Mate Very Shallow Da Other (Explain in ³ Indicators of hydrology mus problematic.	Re natic Hydric Soils (LRR O) (LRR S) F18) (outside MLI lain Soils (F19) (LF t Loamy Soils (F20 rial (TF2) rk Surface (TF12) Remarks) hydrophytic vegeta st be present, unles	emarks
A positive indication SOIL Profile Description: Depth 0-16 0-16 0-16 0-16 0-16 0-16 0-16 0-16	of wetland hydrology (Color (moist) 5BG 4/1 5BG 4/1 ation, D=Depletion, F tors: (Applicable to on (A2) 3) fide (A4) trs (A5) tineral (A7) (LRR P, T, U) tineral (A7) (LRR P, T, U) tineral (A7) (LRR P, T) w Dark Surface (A11 frace (A12) Redox (A16) (MLRA Mineral (S1) (LRR O (Matrix (S4) (S5) x (S6) (S7) (LRR P, S, T, U f observed):	/ was observed (depth needed to 	at least one primar o document the in Color (moist) 5Y 5/1 7.5YR 5/6 Trix, MS=Masked S ss otherwise notte Polyva Thin Di Loamy X Loamy Deplete Redox Deplete Iron-Ma Umbric Delta C Reduce Piedmo	y indicator). dicator or confi Redox Fe <u>%</u> <u>50</u> 20 20 20 20 20 20 20 20 20 20	irm the absence of atures 	Df indicators.) <u>Loc²</u> <u>M</u> <u>M</u> <u>²Location: PL=</u> ² Location: PL= U) P, T) B) I49A) RA 149A, 153C,	Texture Sandy Loam Pore Lining, M=Matrix. Indicators for Probler 1 cm Muck (A9) 1 2 cm Muck (A10) Reduced Vertic (Piedmont Floodp (MLRA 153B) Red Parent Mate Very Shallow Da Other (Explain in ³ Indicators of hydrology mus problematic.	Re natic Hydric Soils (LRR O) (LRR S) F18) (outside MLI lain Soils (F19) (LF t Loamy Soils (F20 rial (TF2) rk Surface (TF12) Remarks) hydrophytic vegeta st be present, unles	emarks
A positive indication SOIL Profile Description Depth (inches) 0-16 ''Type: C=Concentra ''Type: C=Concentr	of wetland hydrology (Color (moist) 5BG 4/1 5BG 4/1 ation, D=Depletion, R tors: (Applicable to on (A2) N3) fide (A4) vrs (A5) vs (A6) (LRR P, T, U) fineral (A7) (LRR P, ve (A8) (LRR U) 9) (LRR P, T) w Dark Surface (A11) rface (A12) Redox (A16) (MLRA Mineral (S1) (LRR O Matrix (S4) (S5) x (S6) (S7) (LRR P, S, T, U f observed): as):	/ was observed (at least one primar	y indicator). dicator or confi Redox Fe % 50 20 20 20 20 20 20 20 20 20 2	irm the absence of atures 	Df indicators.)	Texture Sandy Loam Pore Lining, M=Matrix. Indicators for Probler 1 cm Muck (A9) 2 cm Muck (A10) Reduced Vertic (Piedmont Floodp (MLRA 153B) Red Parent Mate Very Shallow Da Other (Explain in Very Shallow Da Other (Explain in 3 Indicators of hydrology mu problematic. 153D)	Re Re Re Re Re Re Re Re Re Re	marks
A positive indication SOIL Profile Description Depth (inches) 0-16 0-16 0-16 0-16 0-16 0-16 0-16 0-16	of wetland hydrology ((Describe to the of Matrix Color (moist) 5BG 4/1 (Describe to the of SBG 4/1 (Describe to the of SBG 4/1 (Describe to the of (Describe to the of (A2) (A3) (A2) (A3) (A4) (A5) (A4) (A5) (A6) (LRR P, T, U) (IRR P, T) (LRR P, T) (LRR P, T) (Describe to the of (A2) (A3) (IRR V) (B) (LRR V) (CR P, T) (CR P, T) (CS) (CS) (CS) (CS) (CS) (CR P, S, T, U) (S5) (CS) (CR P, S, T, U) (S5) (CS) (CR P, S, T, U) (S5) (CS) (CR P, S, T, U) (CS) (CS) (CR P, S, T, U) (CS) (CS) (CR P, S, T, U) (CS) (CS) (CR P, S, T, U) (CS) (CS) (CR P, S, T, U) (CS) (CS) (CS) (CR P, S, T, U) (CS) (CS) (CR P, S, T, U) (CS) (CS) (CR P, S, T, U) (CS) (CS) (CR P, S, T, U) (CS) (CS) (CR P, S, T, U) (CS) (CR P, S, T, U) (CS) (CS) (CR P, S, T, U) (CS) (CS) (CS) (CS) (CR P, S, T, U) (CS) (CS) (CS) (CR P, S, T, U) (CS) (CS) (CS) (CS) (CR P, S, T, U) (CS) (CS) (CS) (CR P, S, T, U) (CS)	/ was observed (at least one primar	y indicator). dicator or confi Redox Fe % 20 20 20 20 20 20 20 20 20 20	irm the absence of atures 	Df indicators.) <u>Loc²</u> <u>M</u> <u>2</u> Location: PL= ² Location: PL= U) P, T) B) I49A) RA 149A, 153C, Hyd	Texture Sandy Loam Pore Lining, M=Matrix. Indicators for Probler 1 cm Muck (A9) 2 cm Muck (A10) Reduced Vertic (Piedmont Floodp (MLRA 153B) Red Parent Mate Very Shallow Da Other (Explain in Very Shallow Da Other (Explain in 3 Indicators of hydrology mu problematic.	Re	marks
A positive indication SOIL Profile Description Depth (inches) 0-16 0-16 0-16 0-16 0-16 0-16 0-16 0-16	of wetland hydrology ((Describe to the of Matrix Color (moist) 5BG 4/1 (Describe to the of SBG 4/1 (Describe to the of (Describe to the of (Describe to the of (Describe to the of (A2) (A3) (A2) (A3) (A4) (A5) (A4) (A5) (A6) (LRR P, T, U) (IRR P, T) (LRR P, T) (LRR P, T) (Describe to the of (A2) (A3) (IRR V) (A3) (IRR V) (A3) (IRR V) (IRR V) (A1) (IRR O (A1) (Matrix (S4) (S5) x (S6) (S7) (LRR P, S, T, U) f observed): (A3) (A3) (A1) (A1) (A1) (A1) (A1) (A1) (A2) (A1) (A2) (A1) (A2) (A3) (A2) (A3) (A2) (A3) (IRR V) (A1) (A1) (A1) (A2) (A1) (A2) (A3) (A3) (IRR V) (A1) (A1) (A1) (A1) (A2) (A1) (A2) (A3) (A2) (A3) (A3) (IRR V) (A1) (A1) (A1) (A1) (A2) (A2) (A3) (A3) (A3) (A2) (A3) (IRR V) (A1) (A1) (A1) (A1) (A2) (A2) (A3) (A1) (A1) (A1) (A1) (A2) (A2) (A3) (A1) (A1) (A2) (A3) (A1) (A1) (A2) (A3) (A1) (A1) (A2) (A2) (A3) (A1) (A1) (A1) (A2) (A3) (A1) (A1) (A2) (A2) (A1) (A1) (A2) (A2) (A2) (A2) (A1) (A1) (A1) (A2) (A2) (A2) (A1) (A1) (A2) (A2) (A2) (A2) (A1) (A1) (A2) (A2) (A2) (A2) (A1) (A1) (A2) (A2) (A2) (A2) (A2) (A2) (A2) (A1) (A1) (A2) (/ was observed (at least one primar	y indicator).	irm the absence of atures 	Df indicators.)	Texture Sandy Loam Pore Lining, M=Matrix. Indicators for Probler 1 cm Muck (A9) 2 cm Muck (A10) Reduced Vertic (Piedmont Floodp (MLRA 153B) Red Parent Mate Very Shallow Da Other (Explain in Other (Explain in 3 ¹ Indicators of hydrology mu problematic.	Re	emarks

VEGETATION (Five Strata) - Use scientific names	s of plants				Sampling Point:		DP14	
	Absolute % cover	Dominant Species	Indicator Status	Dominance Test works	sheet:			
Tree Stratum (Plot size: 30 ft.)				Number of Dominant Sp	ecies			
1. Celtis laevigata	70	Yes	FACW	That Are OBL, FACW, o	or FAC:		7	(A)
2. Fraxinus pennsylvanica	15	No	FACW					
3. Taxodium distichum	5	No	OBL	Total Number of Domina	ant			
4. Acer saccharinum	5	No	FAC	Species Across All Strat	ta:		8	(B)
5								
6				Percent of Dominant Sp	ecies			
	95	= Total Cover		That Are OBL, FACW, o	or FAC:	88	3%	(A/B)
50% of total cover:	47.5	20% of total cover:	19					
				Prevalence Index Work	ksheet.			
Sapling Stratum (Plot size: 30 ft.)					Noncet.			
1. Celtis laevigata	5	Yes	FACW	Total % C	Cover of:		Multiply by:	
2. Asimina triloba	5	Yes	FAC	OBL species	5	x 1 =	5	
3. <u>Halesia diptera</u>	5	Yes	FAC	FACW species	95	x 2 =	190	
4				FAC species	54	x 3 =	162	
5				FACU species	2	x 4 =	8	
6				UPL species	6	x 5 =	30	
	15	= Total Cover		Column Totals:	162	(A)	395	(B)
50% of total cover:	7.5	20% of total cover:	3					
Shrub Stratum (Plot size: 30 ft.)				Prevalence I	ndex = B/A =		2.44	
1. Asimina triloba	3	Yes	FAC					
2				Hydrophytic Vegetatio	on Indicators:			
3				1 - Rapid Tes	st for Hydrophytic	Vegetation		
4				X 2 - Dominand	ce Test is >50%			
5				X 3 - Prevalence	ce Index is $\leq 3.0^1$			
6				Problematic	Hydrophytic Vege	tation ¹ (Expla	ain)	
	3	= Total Cover						
50% of total cover:	1.5	20% of total cover:	0.6	¹ Indicators of hydric so	oil and wetland hyd	drology must		
				be present, unless distu	rbed or problemat	ic.		
Herb Stratum (Plot size: 30 ft.)								
1. Chasmanthium latifolium	30	Yes	FAC	Definitions of Five Veg	getation Strata:			
2. Boehmeria cylindrica	3	No	FACW					
3. Parthenocissus quinquefolia	2	No	FACU	Tree - Woody plants, et	xcluding woody vii	nes,		
4. Triadica sebifera	2	No	FAC	approximately 20 ft (6m)) or more in height	and 3 in.		
5				(7.6 cm) or larger in diar	meter at breast he	ight (DBH).		
6			<u> </u>					
7				Sapling - Woody plants	, excluding woody	vines,		
8			<u> </u>	approximately 20 ft (6 m	 or more in heigh 	t and less		
9				than 3 in. (7.6 cm) DBH.				
10			<u> </u>					
11			<u> </u>	Shrub - Woody plants, e	excluding woody v	rines,		
	37	= Total Cover		approximately 3 to 20 ft	(1 to 6 m) in heigh	nt.		
50% of total cover:	18.5	20% of total cover:	7.4					
				Herb - All herbaceous (r	non-woody) plants	, including		
Woody Vine Stratum (Plot size: <u>30 ft.</u>)				herbaceous vines, regar	rdless of size, <u>and</u>	woody		
1. Dioscorea bulbifera	6	Yes	UPL	plants, except woody vir	nes, less than app	roximately		
2. Toxicodendron radicans	4	Yes	FAC	2 ft (1 m) in height.				
3. Brunnichia ovata	2	No	FACW					
4				Woody vine - All woody	vines, regardless	s of height.		
5						<u> </u>	<u> </u>	
	12	= Total Cover		Hydrophytic				
50% of total cover:	6	20% of total cover:	2.4	Vegetation				
	_			Present?	Yes X	No		
Remarks: (if observed, list morphological adaptations be	low).							

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



Site: Bob Anthony	Parkway Relocation
Location:	SE 5 5 SW W
Jackson, Rankin County,	
MS	🗢 183°S (T) ● 32.395071, -90.063504 ±3 m 🔺 46 m
Photo No.	
28	
Date:	
07/12/2023	
Description:	
Wetland determination	and the second
Data Point 14 looking	
south.	
	Bob Anthony Parkway
	DP14 07-12-2023, 1:58:50 PM

Project/Site:	Bob Anthony I	Parkway Relocation	ı	County:	Rankin	Sampling D	ate:	July 12, 2023
Applicant/Owner:	Missi	ssippi Department	of Transportation	Stat	e: <u>Mis</u>	ssissippi Sample Po	int:	DP15
Investigator(s):	Savannah R. Morales	and	Bettie Shoemaker	Section, Township	, Range:	S	02, T6N, R2E	
Landform (hillslope, terrace, et	tc.):	Plane		Local relief (cond	ave, convex, none):	Linear Slope	Slope (%):	0-5
Subregion (LRR or MLRA):		LRR P, MLR	A 134	Lat: 32.	<u>39473</u> Lor	Ig:	Datum:	NAD 83
Are climatic / bydrologic condit	tions on the site typical	for this time of year	-2	(Yes / No)	Yes	(if no explain in Remarks)	N/A
Are Vegetation	No ,Soil No	or Hydrology	No signif	icantly disturbed?	Are "Normal Circur	nstances" present?	Yes	X No
Are Vegetation N	No ,Soil No	,or Hydrology	No natura	ally problematic?	(If nee	ded, explain any answers	in Remarks.)	
SUMMARY OF FINDIN	NGS - Attach site	e map showir	ng sampling po	int locations, tra	nsects, importa	ant features, etc.		
Hydrophytic Vegetation Prese	ent? Ye	es X	No					
Hydric Soil Present?	Ye	es	No X	Is the Sampled	l Area			
Wetland Hydrology Present?	Y	es	No <u>X</u>	within a Wetla	nd?	Yes	No	x
Remarks:								
This point was determine	ed not to be within a we	tland due to the la	ck of hydric soils and	wetland hydrology.				
HYDROLOGY								
Wetland hydrology Ind	licators:					Secondary Indicators (mi	nimum of two requ	uired)
Primary Indicators (minir	mum of one is required;	check all that appl	y)			Surface Soil Crac	ks (B6)	
Surface Water (A	A1)	_	Aquatic Fauna (E	313)	-	Sparsely Vegetate	ed Concave Surfa	ce (B8)
High Water Table	le (A2)		Marl Deposits (B	(15) (LRR U)	-	Drainage Patterns	s (B10)	
Saturation (A3)	1)		Hydrogen Sulfide	e Odor (C1)	-	Moss Trim Lines (B16)	
Sediment Denos	l) site (B2)		Oxidized Rhizos	prieres on Living Rools(Dry-Season wate	(C8)	
Drift Deposits (B	(3)		Recent Iron Red	uction in Tilled Soils (C6)	Saturation Visible	on Aerial Imager	/ (C9)
Algal Mat or Crus	st (B4)		Thin Muck Surfa	ce (C7)	-	Geomorphic Posi	tion (D2)	
Iron Deposits (B	5)	_	Other (Explain in	Remarks)	-	Shallow Aquitard	(D3)	
Inundation Visible	le on Aerial Imagery (B7	7)			-	X FAC-Neutral Test	(D5)	
Water-Stained Lo	eaves (B9)				-	Sphagnum moss	(D8) (LRR T, U)	
Field Observations:								
Surface Water Present?	Yes	No X	Depth (inc	ches): N/A	Wetland Hydrolog	gy Present?	Yes	No X
Water Table Present?	Yes	NoX	Depth (inc	ches): >16				
Saturation Present?	Yes	No X	Depth (inc	ches): >16				
Describe Recorded Data	a (stream gauge, monit	oring weil, aeriai pr	iolos, previous inspec	cuons), il available:				
Remarks:								
No positive indication of	wetland hydrology was	observed.						
No positive indication of	wetland hydrology was	observed.						
No positive indication of SOIL	wetland hydrology was	observed.						
No positive indication of SOIL Profile Description: (D	wetland hydrology was	observed.	ent the indicator or	confirm the absence o	f indicators.)			
No positive indication of SOIL Profile Description: (D Depth	wetland hydrology was	needed to docum	ent the indicator or Red	confirm the absence o	f indicators.)			
No positive indication of SOIL Profile Description: (D Depth (inches) 0.4 1	wetland hydrology was Describe to the depth Matrix Dior (moist)%	needed to docum	ent the indicator or Red moist)%	confirm the absence o ox Features Type ¹	f indicators.)	Texture	Rer	narks
No positive indication of SOIL Profile Description: (D Depth	wetland hydrology was Describe to the depth Matrix lor (moist) % 10YR 3/4 10 10YR 5/4 81	needed to docum	ent the indicator or Redemoist) % ne	confirm the absence o ox Features Type ¹	f indicators.)	Texture Silt Loam	Rer	narks
No positive indication of SOIL Profile Description: (D Depth	vetland hydrology was Describe to the depth Matrix Jor (moist) % 10YR 3/4 10 10YR 5/6 21	observed. needed to docum	ent the indicator or Redu moist) % ne	confirm the absence o ox Features Type ¹	f indicators.) Loc ²	Texture Silt Loam Silt Loam	Rer	narks
No positive indication of SOIL Profile Description: (D Depth	Wetland hydrology was Describe to the depth Matrix olor (moist) % 10YR 3/4 10 10YR 5/6 24	observed. needed to docum	ent the indicator or Red moist) % ne	confirm the absence o ox Features 	f indicators.)	Texture Silt Loam Silt Loam	Rer	narks
No positive indication of SOIL Profile Description: (D Depth	wetland hydrology was Describe to the depth Matrix olor (moist) % 10YR 3/4 10 10YR 5/6 24	observed. needed to docum 6 Color (10 No 0	ent the indicator or Redu moist) % ne	confirm the absence o ox Features 	f indicators.)	Texture Silt Loam Silt Loam	Rer	narks
No positive indication of SOIL Profile Description: (D Depth	wetland hydrology was Describe to the depth Matrix olor (moist) % 10YR 3/4 10 10YR 5/4 8 10YR 5/6 2!	needed to docum	ent the indicator or Red moist) % ne Masked Sand Grains	confirm the absence o ox Features 	f indicators.)	Texture Silt Loam Silt Loam	Rer	narks
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No positive indication of SOIL Profile Description: (D Depth (inches) Co 0-4 1 4-16 1 4-16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	wetland hydrology was Describe to the depth Matrix blor (moist) % 10YR 3/4 10 10YR 5/4 8i 10YR 5/6 2i	needed to docum	ent the indicator or Red moist) % ne Masked Sand Grains wise noted.) Polyvalue Below S Thip Dark Surface	confirm the absence of ox Features 	f indicators.)	Texture Silt Loam Silt Loam e Lining, M=Matrix. Indicators for Problema 1 cm Muck (A9) (L 2 cm Muck (A9) (L	Rer tic Hydric Soils ³ RR O)	narks
No positive indication of SOIL Profile Description: (D Depth (inches) Co 0-4 1 4-16 1 4-16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Image: Second	needed to docum	ent the indicator or Red moist) % ne Masked Sand Grains wise noted.) Polyvalue Below S Thin Dark Surface Loamy Mucky Min	confirm the absence of ox Features	f indicators.)	Texture Silt Loam Silt Loam e Lining, M=Matrix. Indicators for Problema 1 cm Muck (A9) (L 2 cm Muck (A10) (I Reduced Vertic (E)	Rer tic Hydric Soils ³ RR O) LRR S)	narks
No positive indication of SOIL Profile Description: (D Depth (inches) Co 0-4 1 4-16 1 4-16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	i wetland hydrology was Describe to the depth Matrix blor (moist) % 10YR 3/4 10 10YR 5/6 21	observed.	ent the indicator or Red moist) % ne Masked Sand Grains wise noted.) Polyvalue Below S Thin Dark Surface Loamy Mucky Min Loamy Gleved Ma	confirm the absence of ox Features	f indicators.)	Texture Silt Loam Silt Loam e Lining, M=Matrix. Indicators for Problema 1 cm Muck (A9) (L 2 cm Muck (A10) (I Reduced Vertic (F ⁻ Piedmont Floodbla	tic Hydric Soils ³ RR O) LRR S) 8) (outside MLR in Soils (F19) (LR	narks
No positive indication of SOIL Profile Description: (D Depth (inches) Co 0-4 1 4-16 1 4-16 1 1 	i wetland hydrology was Describe to the depth Matrix blor (moist) % 10YR 3/4 10 10YR 5/6 24 10YR 5/6 24	needed to docum	ent the indicator or Red moist) % ne Masked Sand Grains wise noted.) Polyvalue Below S Thin Dark Surface Loamy Mucky Min Loamy Gleyed Ma	confirm the absence of ox Features Type ¹	f indicators.)	Texture Silt Loam Silt Loam a Lining, M=Matrix. Indicators for Problema 1 cm Muck (A9) (L 2 cm Muck (A10) (I Reduced Vertic (F Piedmont Floodpla Anomalous Bright I	tic Hydric Soils ³ RR O) LRR S) I8) (outside MLR in Soils (F19) (LR coamy Soils (F20)	narks
No positive indication of SOIL Profile Description: (D Depth (inches) Co 0-4 1 4-16 1 4-16 1 1 	i wetland hydrology was Describe to the depth Matrix blor (moist) % 10YR 3/4 10 10YR 5/6 24 10YR 5/6 24 m, D=Depletion, RM=Re	needed to docum	ent the indicator or Rede moist) % ne Masked Sand Grains wise noted.) Polyvalue Below S Thin Dark Surface Loamy Mucky Min Loamy Gleyed Ma Depleted Matrix (F Redox Dark Surfa	confirm the absence of ox Features Type ¹	f indicators.)	Texture Silt Loam Silt Loam e Lining, M=Matrix. Indicators for Problema 1 cm Muck (A9) (L 2 cm Muck (A10) (I Reduced Vertic (F) Piedmont Floodpla Anomalous Bright I (MLRA 153B)	Rer tic Hydric Soils ³ RR O) LRR S) 18) (outside MLR in Soils (F19) (LR Loamy Soils (F20)	narks
No positive indication of SOIL Profile Description: (D Depth (inches) Co 0-4 1 4-16 1 4-16 1 1 	i wetland hydrology was Describe to the depth Matrix blor (moist) % 10YR 3/4 10 10YR 5/6 24 10YR 5/6 24 m, D=Depletion, RM=Re	observed.	ent the indicator or Rede moist) % ne Masked Sand Grains wise noted.) Polyvalue Below S Thin Dark Surface Loamy Mucky Min Loamy Gleyed Ma Depleted Matrix (F Redox Dark Surfa	confirm the absence of ox Features Type ¹	f indicators.)	Texture Silt Loam Silt Loam a Lining, M=Matrix. Indicators for Problema 1 cm Muck (A9) (L 2 cm Muck (A10) (I Reduced Vertic (F Piedmont Floodpla Anomalous Bright I (MLRA 153B) Red Parent Materia	Rer tic Hydric Soils ³ RR O) LRR S) 18) (outside MLR in Soils (F19) (LR Loamy Soils (F20) al (TF2)	narks
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No positive indication of SOIL Profile Description: (D Depth (inches) Co 0-4 1 4-16 1 1 	i wetland hydrology was Describe to the depth Matrix blor (moist) % 10YR 3/4 10 10YR 5/4 80 10YR 5/6 20 m, D=Depletion, RM=Re 9 s: (Applicable to all Ll A2) 46 A6) (LRR P, T, U) 74 A8) (LRR U) LRR U)	needed to docum	ent the indicator or Rede moist) % ne Masked Sand Grains wise noted.) Polyvalue Below S Thin Dark Surface Loamy Mucky Min Loamy Mucky Min Loamy Mucky Min Depleted Matrix (F Redox Dark Surfa Depleted Dark Surfa Depleted Dark Surfa Depleted Dark Surfa Depleted Dark Surfa	confirm the absence of ox Features	f indicators.)	Texture Silt Loam Silt Loam Silt Loam a Lining, M=Matrix. Indicators for Problema 1 cm Muck (A9) (L 2 cm Muck (A10) (I 2 cm Muck (A10) (I Reduced Vertic (F Piedmont Floodpla Anomalous Bright I (MLRA 153B) Red Parent Materia Very Shallow Dark Other (Explain in R	Rer tic Hydric Soils ³ RR O) LRR S) 18) (outside MLR in Soils (F19) (LR Loamy Soils (F20) al (TF2) Surface (TF12) emarks)	narks
No positive indication of SOIL Profile Description: (D Depth (inches) Co 0-4 1 4-16 1 	i wetland hydrology was Describe to the depth Matrix Jor (moist) % J0YR 5/4 8 I0YR 5/6 24 m, D=Depletion, RM=Re s: (Applicable to all Ll A2) (A4) A5) A6) (LRR P, T, U) ral (A7) (LRR P, T, U) A8) (LRR U) LRR P, T) Dark Surface (A11) xp (A2)	needed to docum	ent the indicator or Rede moist) % ne Masked Sand Grains wise noted.) Polyvalue Below S Thin Dark Surface Loamy Mucky Min Loamy Mucky Min Loamy Gleyed Matrix (F Redox Dark Surfa Depleted Matrix (F Redox Dark Surfa Depleted Dark Surfa Depleted Dark Surfa Depleted Dark Surfa Depleted Dark Surfa Depleted Dark Surfa Depleted Dark Surfa Marl (F10) (LRR L Depleted Ochric (I	confirm the absence of ox Features	f indicators.)	Texture Silt Loam Silt Loam a Lining, M=Matrix. Indicators for Problema 1 cm Muck (A9) (L 2 cm Muck (A10) (I Reduced Vertic (F' Piedmont Floodpla Anomalous Bright I (MLRA 153B) Red Parent Materia Very Shallow Dark Other (Explain in R ³ Indicators of hy	Rer tic Hydric Soils ³ RR O) LRR S) 18) (outside MLR in Soils (F19) (LR .oamy Soils (F20) al (TF2) Surface (TF12) emarks) drophytic vegetat	narks
No positive indication of SOIL Profile Description: (D Depth (inches) Co 0-4 1 4-16 1 1 1 1 1 1 1 1 1 1 1 1 1 1	i wetland hydrology was Describe to the depth Matrix olor (moist) % 10YR 5/4 10 10YR 5/4 8 10YR 5/6 2 m, D=Depletion, RM=Rest	observed.	ent the indicator or Redu moist) % ne Masked Sand Grains wise noted.) Polyvalue Below S Thin Dark Surface Loamy Mucky Min Loamy Gleyed Ma Depleted Matrix (f Redox Dark Surfa Depleted Dark Sur Redox Depressior Marl (F10) (LRR L Depleted Ochric (f Iron-Manganese M Umbric Surface K	confirm the absence of ox Features	f indicators.)	Texture Silt Loam Silt Loam Lining, M=Matrix. Indicators for Problema 1 cm Muck (A9) (L 2 cm Muck (A10) (I Reduced Vertic (F Piedmont Floodpla Anomalous Bright I (MLRA 153B) Red Parent Materia Very Shallow Dark Other (Explain in R ³ Indicators of hy hydrology must	Rer tic Hydric Soils ³ RR O) LRR S) 18) (outside MLR in Soils (F19) (LR .coamy Soils (F20) al (TF2) Surface (TF12) emarks) drophytic vegetat be present, unless	narks
No positive indication of SOIL Profile Description: (D Depth	i wetland hydrology was Describe to the depth Matrix Jor (moist) % J0YR 3/4 10 10YR 5/4 8 10YR 5/6 24 m, D=Depletion, RM=Rest 6 s: (Applicable to all Ll 42) (A4) (A5) A6) (LRR P, T, U) RR P, T, U) A8) (LRR U) LRR P, T, U) Jox K Surface (A11) 26 (A12) Jox (A16) (MLRA 150A) jeral (S1) (LRR O, S)	needed to docum	ent the indicator or Redu moist) % ne Masked Sand Grains wise noted.) Polyvalue Below S Thin Dark Surface Loamy Mucky Min Loamy Gleyed Ma Depleted Matrix (f Redox Dark Surfa Depleted Dark Surfa Depleted Dark Surfa Depleted Dark Surfa Depleted Dark Surfa Depleted Ochric (I Iron-Manganese M Umbric Surface (F17)	confirm the absence of ox Features	f indicators.)	Texture Silt Loam Silt Loam Silt Loam Loam Loam Loam Loam Silt Loam Loam Loam Loam Loam Loam Loam Loam	Rer tic Hydric Soils ³ RR O) LRR S) 18) (outside MLR in Soils (F19) (LR .camy Soils (F20) al (TF2) Surface (TF12) emarks) drophytic vegetat be present, unless	narks
No positive indication of SOIL Profile Description: (D Depth	i wetland hydrology was Describe to the depth Matrix Jor (moist) % J0YR 3/4 10 10YR 5/4 8 I0YR 5/6 2	observed.	ent the indicator or Redu moist) % ne :Masked Sand Grains wise noted.) Polyvalue Below S Thin Dark Surface Loamy Mucky Min Loamy Gleyedt Ma Depleted Matrix (F Redox Dark Surfa Depleted Ochric (I Iron-Manganese M Umbric Surface (F17 Reduced Vertic (F17	confirm the absence of ox Features	f indicators.) Loc ² 	Texture Silt Loam Silt Loam Silt Loam Loam Loam Loam Silt Loam Loam Loam Loam Loam Loam Loam Loam	Rer tic Hydric Soils ³ RR O) LRR S) 18) (outside MLR in Soils (F19) (LR .camy Soils (F20) al (TF2) Surface (TF12) emarks) drophytic vegetat be present, unless	ion and wetland s disturbed or
No positive indication of SOIL Profile Description: (D Depth	i wetland hydrology was Describe to the depth Matrix Jor (moist) % J0YR 3/4 10 10YR 5/4 8 10YR 5/6 21	observed.	ent the indicator or Redu moist) % ne Masked Sand Grains wise noted.) Polyvalue Below S Thin Dark Surface Loamy Mucky Min Loamy Gleyed Mat Depleted Matrix (F Redox Dark Surfa Depleted Dark Surfa Depleted Dark Surfa Depleted Dark Surfa Depleted Ochric (I Iron-Manganese M Umbric Surface (F1 Delta Ochric (F17 Reduced Vertic (F17) Reduced Vertic (F17) Reduced Vertic (F17) Reduced Vertic (F17) Reduced Vertic (F17) Reduce	confirm the absence of ox Features	f indicators.)	Texture Silt Loam Silt Loam Silt Loam Loam Loam Loam Loam Loam Loam Loam	Rer tic Hydric Soils ³ RR O) LRR S) 18) (outside MLR in Soils (F19) (LR .camy Soils (F20) al (TF2) Surface (TF12) emarks) drophytic vegetat be present, unless	narks
No positive indication of SOIL Profile Description: (D Depth	i wetland hydrology was Describe to the depth Matrix blor (moist) % 10YR 3/4 10 10YR 5/4 8 10YR 5/6 21	observed.	ent the indicator or Redu moist) % ne	confirm the absence of ox Features	f indicators.) Loc ² 	Texture Silt Loam Silt Loam Silt Loam Loam Loam Loam Comparison Silt Loam Silt Loam Comparison Silt Loam Silt Loam Silt Loam Comparison Comparison Silt Compar	Rer tic Hydric Soils ³ RR O) LRR S) 18) (outside MLR in Soils (F19) (LR .camy Soils (F20) al (TF2) Surface (TF12) emarks) drophytic vegetat be present, unless	narks
No positive indication of SOIL Profile Description: (D Depth (inches) O-4 1 4-16 1 4-16 1 'Type: C=Concentration Hydric Soils Indicators Hydric Soils Indicators Histosol (A1) Histosol (A1) Histogen Sulfide Stratified Layers (, Organic Bodies (A 5 cm Mucky Miner Muck Presence (A 1 cm Muck (A9) (I Depleted Below D Thick Dark Surfac Coast Prairie Red Sandy Mucky Min Sandy Gleyed Matrix (S Dark Surface (S7)	i wetland hydrology was Describe to the depth Matrix blor (moist) % 10YR 3/4 10 10YR 5/4 8 10YR 5/6 21 m, D=Depletion, RM=Ref s: (Applicable to all Li A2) (A4) (A4) (A5) A6) (LRR P, T, U) ral (A7) (LRR P, T, U) Dark Surface (A11) blor (A16) (MLRA 150A) teral (S1) (LRR O, S) ttrix (S4) i) S6)) (LRR P, S, T, U)	observed.	ent the indicator or Redu moist) % ne	confirm the absence of ox Features	f indicators.) Loc ² 	Texture Silt Loam Silt Loam Silt Loam It Loam It Loam It Loam It Comparison of the second sec	Rer tic Hydric Soils ³ RR O) LRR S) 18) (outside MLR in Soils (F19) (LR .camy Soils (F20) al (TF2) Surface (TF12) emarks) drophytic vegetat be present, unles:	narks
No positive indication of SOIL Profile Description: (D Depth (inches) Co 0-4 1 4-16 1	i wetland hydrology was Describe to the depth Matrix Nor (moist) % 10YR 3/4 10 10YR 5/6 21 10YR 5/7 21	observed.	ent the indicator or Redu moist) % ne Masked Sand Grains wise noted.) Polyvalue Below S Thin Dark Surface Loamy Mucky Min Depleted Matrix (F Redox Dark Surfa Depleted Dark Surfa Depleted Dark Surfa Depleted Dark Surface (Inon-Manganese M Umbric Surface (F17 Reduced Vertic (F17 Piedmont Floodpla Anomalous Bright	confirm the absence of ox Features	f indicators.) Loc ² 	Texture Silt Loam Silt Loam Silt Loam It Loam It Loam It Loam It Loam It Comparison of the second se	tic Hydric Soils ³ RR O) LRR S) 18) (outside MLR in Soils (F19) (LR .camy Soils (F20) al (TF2) Surface (TF12) emarks) drophytic vegetat be present, unless	narks
No positive indication of SOIL Profile Description: (D Depth (inches) Co 0-4 1 4-16 1	i wetland hydrology was Describe to the depth Matrix blor (moist) % 10YR 3/4 10 10YR 5/6 24 10YR 5/7 24	observed.	ent the indicator or Redu moist) % ne	confirm the absence of ox Features	f indicators.) Loc ² 	Texture Silt Loam Silt Loam Silt Loam It Loam It Loam It Loam It Comments It C	Rer tic Hydric Soils ³ RR O) LRR S) 18) (outside MLR in Soils (F19) (LR coamy Soils (F20) al (TF2) Surface (TF12) emarks) drophytic vegetat be present, unless	narks
No positive indication of SOIL Profile Description: (D Depth (inches) Co 0-4 1 4-16 1	i wetland hydrology was Describe to the depth Matrix blor (moist) % 10YR 3/4 10 10YR 5/6 24 10YR 5/7 24	observed.	ent the indicator or Redu moist) % ne	confirm the absence of ox Features	f indicators.) Loc ² 	Texture Silt Loam Silt Loam Silt Loam It Loam It Loam It Loam It Commendation	tic Hydric Soils ³ RR O) LRR S) 18) (outside MLR in Soils (F19) (LR Loamy Soils (F20) al (TF2) Surface (TF12) emarks) drophytic vegetat be present, unless	narks
No positive indication of SOIL Profile Description: (D Depth (inches) Co 0-4 1 4-16 1	i wetland hydrology was Describe to the depth Matrix blor (moist) 9/ 10YR 3/4 10 10YR 5/6 21 10YR 5/7 2	observed.	ent the indicator or Redu moist) % ne	confirm the absence of ox Features	f indicators.) Loc ² 	Texture Silt Loam Silt Loam Silt Loam a Lining, M=Matrix. Indicators for Problema 1 cm Muck (A9) (I 2 cm Muck (A10) (I 2 cm Muck (A10) (I Reduced Vertic (F Piedmont Floodpla Anomalous Bright I (MLRA 153B) Red Parent Materia Very Shallow Dark Other (Explain in R ³ Indicators of hy hydrology must problematic. D) Soil Present? Yes	tic Hydric Soils ³ RR O) LRR S) 18) (outside MLR in Soils (F19) (LR Loamy Soils (F20) al (TF2) Surface (TF12) emarks) drophytic vegetat be present, unless be present, unless	narks

-GETATION (Five Strata) - Use scientific name	o or planto.						
	Absolute % cover	Dominant Species	Indicator Status	Dominance Test wor	ksheet:		
ree Stratum (Plot size: <u>30</u> ft.)				Number of Dominant S	Species		
. Celtis laevigata	40	Yes	FACW	That Are OBL, FACW,	, or FAC:	6	(A)
. Taxodium distichum	30	Yes	OBL		-		
. Ulmus americana	5	No	FAC	Total Number of Domin	nant		
				Species Across All Str	ata:	6	(B)
·		<u> </u>		Percent of Dominant S	Species		
	75 =	= Total Cover		That Are OBL, FACW,	, or FAC:	100%	(A/
50% of total cover	37.5	20% of total cover:	15				
				Prevalence Index Wo	orksheet:		
apling Stratum (Plot size: 30 ft.)							
Celtis laevigata	3	Yes	FACW	Total %	Cover of:	Mult	tiply by:
. Ulmus americana	2	Yes	FAC	OBL species	30	x 1 =	30
				FACW species	58	x 2 =	116
·		·		FAC species	24	x 3 =	72
۰ <u>ــــــــــــــــــــــــــــــــــــ</u>				FACU species	5	x 4 =	20
		<u> </u>		UPL species	0	x 5 =	0
	5_=	Total Cover		Column Totals:	117	(A)	238
50% of total cover	: 2.5	20% of total cover:	1				
hrub Stratum (Plot size: 30 ft.)				Prevalence	e Index = B/A =	2	2.03
None Observed		<u> </u>					
·		·		Hydrophytic Vegetat	ion Indicators:		
		·		1 - Rapid T	est for Hydrophytic \	Vegetation	
				X 2 - Domina	nce Test is >50%		
5				X 3 - Prevale	nce Index is $\leq 3.0^1$		
5 5				X 3 - Prevale Problemation	ence Index is ≤ 3.0 ¹ c Hydrophytic Vegeta	ation ¹ (Explain)	
5 5		= Total Cover		X 3 - Prevale Problemation	nce Index is ≤ 3.0 ¹ c Hydrophytic Vegeta	ation ¹ (Explain)	
5 5 50% of total cover		= Total Cover 20% of total cover:		X 3 - Prevale Problematie	nce Index is ≤ 3.0 ¹ c Hydrophytic Vegeta soil and wetland hyd	ation ¹ (Explain) rology must	
50% of total cover		Total Cover		3 - Prevale Problemation ¹ Indicators of hydric : be present, unless dist	nce Index is ≤ 3.0 ¹ c Hydrophytic Vegeta soil and wetland hyd turbed or problematio	ation ¹ (Explain) rology must c.	
		Total Cover 20% of total cover: Yes	FACW	X 3 - Prevale Problemati ¹ Indicators of hydric - be present, unless dist Definitions of Five Vi	nce Index is ≤ 3.0 ¹ c Hydrophytic Vegeta soil and wetland hyd turbed or problematio	ation ¹ (Explain) rology must c.	
	= = 	Total Cover 20% of total cover: <u>Yes</u> Yes	FACW	X 3 - Prevale Problemati ¹ Indicators of hydric be present, unless dist Definitions of Five Vent	nce Index is ≤ 3.0 ¹ c Hydrophytic Vegeta soil and wetland hyd turbed or problematie egetation Strata:	ation ¹ (Explain) rology must c.	
	= = 	Total Cover 20% of total cover: <u>Yes</u> <u>Yes</u> No	FACW FAC FAC	X 3 - Prevale Problemati ¹ Indicators of hydric be present, unless dist Definitions of Five Vo Tree - Woody plants,	nce Index is ≤ 3.0 ¹ c Hydrophytic Vegeta soil and wetland hyd turbed or problematic egetation Strata: excluding woodv vin	ation ¹ (Explain) rology must c. 	
. 50% of total cover . Carex cherokeensis . Oplismenus hirtellus . Triadica sebifera . Boehmeria cylindrica	 	Total Cover 20% of total cover: <u>Yes</u> <u>Yes</u> <u>No</u>	FACW FAC FAC FACW	X 3 - Prevale Problemati ¹ Indicators of hydric - be present, unless dist Definitions of Five Vo Tree - Woody plants, approximately 20 ft (6r	nce Index is $\leq 3.0^{1}$ c Hydrophytic Vegeta soil and wetland hyd turbed or problematio egetation Strata: excluding woody vin m) or more in height	ation ¹ (Explain) rology must c. ies, and 3 in.	
. 50% of total cover . Carex cherokeensis . Oplismenus hirtellus . Triadica sebifera . Boehmeria cylindrica . Callicarpa americana	 	Total Cover 20% of total cover: 20% of total cover: Yes No No	FACW FAC FAC FACW FACU	X 3 - Prevale Problematic ¹ Indicators of hydric : be present, unless dist Definitions of Five Vo Tree - Woody plants, approximately 20 ft (6r (7.6 cm) or larger in di	nce Index is $\leq 3.0^1$ c Hydrophytic Vegeta soil and wetland hyd turbed or problematio egetation Strata: excluding woody vin m) or more in height ameter at breast heig	ation ¹ (Explain) rology must c. ies, and 3 in. aht (DBH).	
	10 10 5 5 5 2	Total Cover 20% of total cover: 20% of total cover: Yes No No No No	FACW FAC FAC FACW FACU FACU FAC	X 3 - Prevale Problemati ¹ Indicators of hydric : be present, unless dist Definitions of Five Vo Tree - Woody plants, approximately 20 ft (6r (7.6 cm) or larger in dia	nce Index is ≤ 3.0 ¹ c Hydrophytic Vegeta soil and wetland hyd turbed or problematio egetation Strata: excluding woody vin m) or more in height ameter at breast heig	ation ¹ (Explain) rology must c. es, and 3 in. ght (DBH).	
5	10 10 5 5 5 2	Total Cover 20% of total cover: 20% of total cover: Yes No No No No	FACW FAC FAC FACW FACU FAC	X 3 - Prevale Problemation ¹ Indicators of hydric - be present, unless dist Definitions of Five Vo Tree - Woody plants, approximately 20 ft (6r (7.6 cm) or larger in dia Sapling - Woody plan	nce Index is ≤ 3.0 ¹ c Hydrophytic Veget soil and wetland hyd turbed or problematii egetation Strata: excluding woody vin m) or more in height ameter at breast heig ts, excluding woody	ation ¹ (Explain) rology must c. les, and 3 in. ght (DBH). vines,	
50% of total cover 50% of	10 10 5 5 5 2	Total Cover 20% of total cover: 20% of total cover: Yes No No No No	FACW FAC FAC FACW FACU FAC	X 3 - Prevale Problemati 'Indicators of hydric = be present, unless dist Definitions of Five V Tree - Woody plants, approximately 20 ft (6r (7.6 cm) or larger in di Sapling - Woody plan approximately 20 ft (6	nce Index is ≤ 3.0 ¹ c Hydrophytic Veget soil and wetland hyd turbed or problematii egetation Strata: excluding woody vin m) or more in height ameter at breast heig ts, excluding woody m) or more in height	ation ¹ (Explain) rology must c. es, and 3 in. ght (DBH). vines, and less	
50% of total cover 50% of	 	Total Cover 20% of total cover: 20% of total cover: Yes No No No No	FACW FAC FAC FACW FACU FAC	X 3 - Prevale Problemation ¹ Indicators of hydric - be present, unless dist Definitions of Five Vo Tree - Woody plants, approximately 20 ft (6r (7.6 cm) or larger in dia Sapling - Woody plan approximately 20 ft (6 than 3 in. (7.6 cm) DBI	nce Index is ≤ 3.0 ¹ c Hydrophytic Veget soil and wetland hyd turbed or problematii egetation Strata: excluding woody vin m) or more in height ameter at breast heig ts, excluding woody m) or more in height H.	ation ¹ (Explain) rology must c. es, and 3 in. ght (DBH). vines, and less	
5	 	Total Cover 20% of total cover: 20% of total cover: Yes No No No No	FACW FAC FAC FACW FACU FAC	X 3 - Prevale Problemation ¹ Indicators of hydric - be present, unless dist Definitions of Five Vo Tree - Woody plants, approximately 20 ft (6r (7.6 cm) or larger in dia Sapling - Woody plan approximately 20 ft (6 than 3 in. (7.6 cm) DBI	nce Index is ≤ 3.0 ¹ c Hydrophytic Veget soil and wetland hyd turbed or problematii egetation Strata: excluding woody vin m) or more in height ameter at breast heig ts, excluding woody m) or more in height H.	ation ¹ (Explain) rology must c. es, and 3 in. ght (DBH). vines, and less	
5	 	Total Cover 20% of total cover: 20% of total cover: Yes No No No No	FACW FAC FAC FACW FACU FAC	X 3 - Prevale Problemation ¹ Indicators of hydric - be present, unless dist Definitions of Five Vo Tree - Woody plants, approximately 20 ft (6r (7.6 cm) or larger in dist Sapling - Woody plant approximately 20 ft (6 than 3 in. (7.6 cm) DBI	nce Index is ≤ 3.0 ¹ c Hydrophytic Veget soil and wetland hyd turbed or problematii egetation Strata: excluding woody vin m) or more in height ts, excluding woody ts, excluding woody vi H.	ation ¹ (Explain) rology must c. les, and 3 in. ght (DBH). vines, and less nes,	
5	 	Total Cover 20% of total cover: 20% of total cover: Yes No No No No Total Cover	FACW FAC FAC FACW FACU FAC	X 3 - Prevale Problemation ¹ Indicators of hydric - be present, unless dist Definitions of Five Vo Tree - Woody plants, approximately 20 ft (6r (7.6 cm) or larger in dist Sapling - Woody plant approximately 20 ft (6 than 3 in. (7.6 cm) DBI Shrub - Woody plants approximately 3 to 20	nce Index is ≤ 3.0 ¹ c Hydrophytic Veget soil and wetland hyd turbed or problematii egetation Strata: excluding woody vin m) or more in height ts, excluding woody ts, excluding woody vi H. c, excluding woody vi ft (1 to 6 m) in height	ation ¹ (Explain) rology must c. les, and 3 in. ght (DBH). vines, and less nes, t.	
5	10 10 5 5 2 2 37 18.5	Total Cover 20% of total cover: Yes No No No No Cover Cotal Cover 20% of total cover:	FACW FAC FAC FACW FACU FAC	X 3 - Prevale Problematic ¹ Indicators of hydric - be present, unless dist Definitions of Five Vo Tree - Woody plants, approximately 20 ft (6r (7.6 cm) or larger in dist Sapling - Woody plant approximately 20 ft (6 than 3 in. (7.6 cm) DBI Shrub - Woody plants approximately 3 to 20 ft	nce Index is ≤ 3.0 ¹ c Hydrophytic Veget soil and wetland hyd turbed or problematii egetation Strata: excluding woody vin m) or more in height ameter at breast heig ts, excluding woody m) or more in height H. e, excluding woody vi ft (1 to 6 m) in height	ation ¹ (Explain) rology must c. les, and 3 in. ght (DBH). vines, and less nes, t.	
5	10 10 5 5 2 37 18.5	Total Cover 20% of total cover: Yes No No No No Total Cover 20% of total cover:	FACW FAC FAC FACW FACU FAC FAC	X 3 - Prevale Problematic ¹ Indicators of hydric - be present, unless dist Definitions of Five Vo Tree - Woody plants, approximately 20 ft (6r (7.6 cm) or larger in di Sapling - Woody plant approximately 20 ft (6 than 3 in. (7.6 cm) DBI Shrub - Woody plants approximately 3 to 20 ft Herb - All herbaceous	nce Index is ≤ 3.0 ¹ c Hydrophytic Vegeti soil and wetland hyd turbed or problemati egetation Strata: excluding woody vin m) or more in height ameter at breast heig ts, excluding woody m) or more in height H. c, excluding woody vi ft (1 to 6 m) in height (non-woody) plants,	ation ¹ (Explain) rology must c. les, and 3 in. ght (DBH). vines, and less nes, t. including	
5	10 10 5 5 2 37 18.5	Total Cover 20% of total cover: Yes No No No No Total Cover 20% of total cover:	FACW FAC FAC FACW FACU FAC 7.4	X 3 - Prevale Problematic ¹ Indicators of hydric - be present, unless dist Definitions of Five Vo Tree - Woody plants, approximately 20 ft (6r (7.6 cm) or larger in dis Sapling - Woody plant approximately 20 ft (6 than 3 in. (7.6 cm) DBI Shrub - Woody plants approximately 3 to 20 Herb - All herbaceous herbaceous vines, reg	nce Index is ≤ 3.0 ¹ c Hydrophytic Vegeti soil and wetland hyd turbed or problemati egetation Strata: excluding woody vin m) or more in height ameter at breast heig ts, excluding woody m) or more in height H. e, excluding woody vi ft (1 to 6 m) in height (non-woody) plants, ardless of size, <u>and</u>	ation ¹ (Explain) rology must c. les, and 3 in. ght (DBH). vines, and less ines, t. including woody	
5	10 10 5 5 2 	Total Cover 20% of total cover: Yes No No No No Total Cover 20% of total cover:	FACW FAC FAC FACW FACU FAC 7.4	X 3 - Prevale Problematic ¹ Indicators of hydric : be present, unless dist Definitions of Five Vo Tree - Woody plants, approximately 20 ft (6r (7.6 cm) or larger in dis Sapling - Woody plant approximately 20 ft (6 than 3 in. (7.6 cm) DBI Shrub - Woody plants approximately 3 to 20 Herb - All herbaceous herbaceous vines, reg plants, except woody V	nce Index is ≤ 3.0 ¹ c Hydrophytic Vegeti soil and wetland hyd turbed or problemati egetation Strata: excluding woody vin m) or more in height ameter at breast heig ts, excluding woody m) or more in height H. c, excluding woody vi ft (1 to 6 m) in height (non-woody) plants, jardless of size, <u>and</u> vines, less than appr	ation ¹ (Explain) rology must c. les, and 3 in. ght (DBH). vines, and less ines, t. including woody oximately	
5	 	Total Cover 20% of total cover: Yes No No No No Total Cover 20% of total cover:	FACW FAC FAC FACW FACU FAC FAC	X 3 - Prevale Problematic ¹ Indicators of hydric : be present, unless dist Definitions of Five Vale Tree - Woody plants, approximately 20 ft (6r (7.6 cm) or larger in dist Sapling - Woody plant approximately 20 ft (6 than 3 in. (7.6 cm) DBI Shrub - Woody plants approximately 3 to 20 in Herb - All herbaceous herbaceous vines, reg plants, except woody 2 ft (1 m) in height.	nce Index is ≤ 3.0 ¹ c Hydrophytic Vegeti soil and wetland hyd turbed or problemati egetation Strata: excluding woody vin m) or more in height ameter at breast heig ts, excluding woody m) or more in height H. s, excluding woody vi ft (1 to 6 m) in height (non-woody) plants, pardless of size, and vines, less than appr	ation ¹ (Explain) rology must c. les, and 3 in. ght (DBH). vines, and less ines, t. including woody oximately	
5	 	Total Cover 20% of total cover: Yes No No No No Total Cover 20% of total cover:	FACW FAC FAC FACW FACU FAC 7.4	X 3 - Prevale Problematic ¹ Indicators of hydric : be present, unless dist Definitions of Five Vo Tree - Woody plants, approximately 20 ft (6r (7.6 cm) or larger in di Sapling - Woody plant approximately 20 ft (6 than 3 in. (7.6 cm) DBI Shrub - Woody plants approximately 3 to 20 Herb - All herbaceous herbaceous vines, reg plants, except woody v 2 ft (1 m) in height.	nce Index is ≤ 3.0 ¹ c Hydrophytic Vegeti soil and wetland hyd turbed or problemati egetation Strata: excluding woody vin m) or more in height ameter at breast heig ts, excluding woody m) or more in height H. ; excluding woody vi ft (1 to 6 m) in height (non-woody) plants, jardless of size, <u>and</u> vines, less than appr	ation ¹ (Explain) rology must c. les, and 3 in. ght (DBH). vines, and less ines, t. including woody oximately	
5	 	Total Cover 20% of total cover: Yes No No No No Total Cover 20% of total cover:	FACW FAC FAC FACW FACU FAC 7.4	X 3 - Prevale Problemati ' Indicators of hydric = be present, unless disi Definitions of Five Va Tree - Woody plants, approximately 20 ft (6r (7.6 cm) or larger in di Sapling - Woody plant approximately 20 ft (6 than 3 in. (7.6 cm) DBI Shrub - Woody plants approximately 3 to 20 Herb - All herbaceous herbaceous vines, reg plants, except woody 2 ft (1 m) in height. Woody vine - All wood	nce Index is ≤ 3.0 ¹ c Hydrophytic Vegeti soil and wetland hyd turbed or problemati egetation Strata: excluding woody vin m) or more in height ameter at breast heig ts, excluding woody m) or more in height H. c, excluding woody vi ft (1 to 6 m) in height (non-woody) plants, pardless of size, <u>and</u> vines, less than appr	ation ¹ (Explain) rology must c. les, and 3 in. ght (DBH). vines, and less ines, t. including woody oximately of height.	
5.	 	Total Cover 20% of total cover: Yes No No No No Total Cover 20% of total cover:	FACW FAC FAC FACU FAC FAC	X 3 - Prevale Problemati ¹ Indicators of hydric = be present, unless dist Definitions of Five Vo Tree - Woody plants, approximately 20 ft (6r (7.6 cm) or larger in di Sapling - Woody plant approximately 20 ft (6f than 3 in. (7.6 cm) DBI Shrub - Woody plants approximately 3 to 20 = Herb - All herbaceous herbaceous vines, reg plants, except woody v 2 ft (1 m) in height. Woody vine - All wood	nce Index is ≤ 3.0 ¹ c Hydrophytic Vegeti soil and wetland hyd turbed or problematii egetation Strata: excluding woody vin m) or more in height ameter at breast heig ts, excluding woody m) or more in height H. c, excluding woody vin ft (1 to 6 m) in height (non-woody) plants, pardless of size, <u>and</u> vines, less than appr dy vines, regardless	ation ¹ (Explain) rology must c. les, and 3 in. ght (DBH). vines, and less nes, t. including woody oximately of height.	
5.	 	Total Cover 20% of total cover: Yes No No No No Total Cover 20% of total cover: Total Cover 20% of total cover: Total Cover 20% of total cover:	FACW FAC FAC FACW FACU FAC	X 3 - Prevale Problemati ' Indicators of hydric = be present, unless disi Definitions of Five Va Tree - Woody plants, approximately 20 ft (6r (7.6 cm) or larger in di Sapling - Woody plant approximately 20 ft (6 than 3 in. (7.6 cm) DBI Shrub - Woody plants approximately 3 to 20 = Herb - All herbaceous herbaceous vines, reg plants, except woody v 2 ft (1 m) in height. Woody vine - All wood Hydrophytic	nce Index is ≤ 3.0 ¹ c Hydrophytic Vegeti soil and wetland hyd turbed or problematii egetation Strata: excluding woody vin m) or more in height ameter at breast heig ts, excluding woody m) or more in height H. c, excluding woody vin ft (1 to 6 m) in height (non-woody) plants, pardless of size, <u>and</u> vines, less than appr dy vines, regardless	ation ¹ (Explain) rology must c. les, and 3 in. ght (DBH). vines, and less nes, t. including woody oximately of height.	
5.		Total Cover 20% of total cover: Yes No No No No Total Cover 20% of total cover: Total Cover 20% of total cover: Cover 20% of total cover: Cover	FACW FAC FACW FACU FAC 7.4	X 3 - Prevale Problematic ¹ Indicators of hydric - be present, unless dist Definitions of Five Vo Tree - Woody plants, approximately 20 ft (6r (7.6 cm) or larger in di Sapling - Woody plant approximately 20 ft (6 than 3 in. (7.6 cm) DBI Shrub - Woody plants approximately 20 ft (6 than 3 in. (7.6 cm) DBI Shrub - Woody plants approximately 3 to 20 Herb - All herbaceous herbaceous vines, reg plants, except woody 2 ft (1 m) in height. Woody vine - All wood Hydrophytic Vegetation	nce Index is ≤ 3.0 ¹ c Hydrophytic Vegeti soil and wetland hyd turbed or problemati egetation Strata: excluding woody vin m) or more in height ameter at breast heig ts, excluding woody m) or more in height H. excluding woody vin ft (1 to 6 m) in height (non-woody) plants, lardless of size, <u>and</u> vines, less than appr	ation ¹ (Explain) rology must c. les, and 3 in. ght (DBH). vines, and less nes, t. including woody oximately of height.	
	 	Total Cover 20% of total cover: Yes No No No No Total Cover 20% of total cover:	FACW FAC FACW FACU FAC FAC	X 3 - Prevale Problematic ¹ Indicators of hydric : be present, unless dist Definitions of Five Vo Tree - Woody plants, approximately 20 ft (6r (7.6 cm) or larger in dist Sapling - Woody plant approximately 20 ft (6 than 3 in. (7.6 cm) DBI Shrub - Woody plants approximately 3 to 20 ft Herb - All herbaceous herbaceous vines, reg plants, except woody 2 ft (1 m) in height. Woody vine - All wood Hydrophytic Vegetation Present?	nce Index is ≤ 3.0 ¹ c Hydrophytic Vegeti soil and wetland hyd turbed or problematii egetation Strata: excluding woody vin m) or more in height ameter at breast heig ts, excluding woody m) or more in height H. c, excluding woody vi ft (1 to 6 m) in height (non-woody) plants, iardless of size, <u>and</u> vines, less than appr dy vines, regardless Yes <u>X</u>	ation ¹ (Explain) rology must c. es, and 3 in. ght (DBH). vines, and less nes, t. including woody oximately of height.	

Project/Site:	Bob An	thony Parkway Re	elocation	Co	ounty:	Rankin	Samplir	ig Date:	July 13, 2023
Applicant/Owner:		Mississippi Depa	artment of Transpo	rtation	Stat	e:	Mississippi Sample	e Point:	DP16
Investigator(s):	Savannah R. Mor	rales and	Bettie Shoe	emaker	Section, Township	o, Range:		S02, T6N, R2E	
Landform (hillslope, terrace	e, etc.):		Bottom		Local relief (cond	cave, convex, none	e): Concave	Slope (%):	5-10
Subregion (LRR or MLRA)		LRR	P, MLRA 134	latar	_ Lat:32.	.39448	Long: -90.062	22 Datum:	NAD 83
Are climatic / hydrologic co	anditions on the site t	typical for this time	of vear?	/alei	Yes / No)	Ves	(if no, explain in Rem	arks)	IN/A
Are Vegetation	No ,Soil	No ,or Hydr	ology No	significantly	v disturbed?	Are "Normal Cire	cumstances" present?	Yes	X No
Are Vegetation	No ,Soil	No ,or Hydr	ology No	naturally pr	roblematic?	(lf r	needed, explain any ans	vers in Remarks.)	
SUMMARY OF FIN	DINGS - Attac	h site map s	howing samp	oling point l	ocations, tra	nsects, impo	ortant features, et	с.	
Hydrophytic Vegetation P	resent?	Yes X	No						
Hydric Soil Present?		Yes X	No		Is the Sampled	d Area			
Wetland Hydrology Prese	ent?	Yes X	No		within a Wetla	nd?	Yes X	No	
Remarks:									
This point was deter	mined to be within a	wetland due to the	e presence of all th	ree wetland crit	eria.				
HYDROLOGY									
Wetland hydrology	Indicators:						Secondary Indicators	(minimum of two ree	quired)
Primary Indicators (n	minimum of one is re	quired; check all t	hat apply)				Surface Soil C	racks (B6)	
Surface Wate	er (A1)		Aquati	c Fauna (B13)			X Sparsely Vege	etated Concave Sur	face (B8)
X High Water T	Table (A2)		Marl D	eposits (B15) (L	_RR U)		Drainage Patt	erns (B10)	
Saturation (A	(3) (B1)		Hydrog	gen Sulfide Odo	r (C1) a an Living Beata(C2)	Moss Trim Lir	es (B16) (stor Table (C2)	
Sediment De	(BI)		<u> </u>	ed Knizosphere	s on Living Roots((3)	Dry-Season v	Vater Table (C2)	
Drift Deposits	s (B3)		Recen	t Iron Reduction	in Tilled Soils (C6	5)	Saturation Vis	ible on Aerial Image	rv (C9)
Algal Mat or	Crust (B4)		Thin M	luck Surface (C	7)	,	Geomorphic F	osition (D2)	, ,
Iron Deposits	s (B5)		Other	(Explain in Rem	arks)		Shallow Aquit	ard (D3)	
Inundation Vi	isible on Aerial Imag	ery (B7)					X FAC-Neutral	est (D5)	
X Water-Staine	ed Leaves (B9)						Sphagnum mo	oss (D8) (LRR T, U)	
Field Observations:									
Surface Water Present?	Yes	No	x	Depth (inches):	N/A	Wetland Hydro	ology Present?	Yes X	No
Water Table Present?	Yes	X No		Depth (inches):	8				
Saturation Present?	Yes	No	X	Depth (inches):	>16				
Describe Recorded I	Data (stream gauge,	, monitoring well, a	aeriai priotos, previ	ous inspections), il avallable:				
Remarks:									
A positive indication	of wetland hydrology	v was observed (a	at least one primary	(indicator)					
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A positive indication SOIL Profile Description: Depth (inches) 2-8 8-16 " Type: C=Concentra Hydric Soils Indicat Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye Organic Bodie 5 cm Mucky M Muck Presenc 1 cm Muck (AI Depleted Belo Thick Dark Su Coast Prairie I Sandy Mucky Sandy Gleyed Sandy Redox Stripped Matri	of wetland hydrology : (Describe to the (Matrix Color (moist) 10YR 4/1 10YR 6/1 5Y 5/1 ation, D=Depletion, F tors: (Applicable to pn (A2) (A2) (A2) (A2) (A3) (IRR P, T) (IRR P, T) (IRR P, T) (IRR P, T) (IRR Q) (IRR U) (IRR U) (IRR C) (IRR C)	y was observed (a	t least one primary document the ind Color (moist) 7.5YR 4/6 7.5YR 4/6 7.5YR 5/8 rix, MS=Masked Sa so therwise noted Polyvalu Thin Da Loamy f Loamy f Loamy f Redox I Mari (F1 Deplete Iron-Ma Umbric Delta O Reduce Piedmon Anomalu	A indicator).	rm the absence of atures 	of indicators.) <u>Loc²</u> <u>M</u> <u>M</u> <u>1</u> <u>1</u> <u>2</u> Location: PL=F U) P, T) B) 49A) RA 149A, 153C, 1	Texture Silt Loam Silt Loam Silt Loam Silt Loam Define the second	Re Heavy organic n Splotch pattern Splotch pattern (F18) (outside ML (F18) (outside ML (F18) (outside ML (plain Soils (F19) (L terial (TF2) ark Surface (TF12) in Remarks) f hydrophytic vegeta ust be present, unle	emarks
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A positive indication SOIL Profile Description: Depth (inches) 0-2 2-8 8-16 ''Type: C=Concentre Hydric Soils Indicat Histosol (A1) Histoc Epipedo Black Histic (A Hydrogen Sulf Stratified Laye Organic Bodie 5 cm Mucky M Muck Presence 1 cm Muck (At Depleted Belo Thick Dark Su Coast Prairie I Sandy Mucky Sandy Gleyed Sandy Redox Stripped Matri Dark Surface I Restrictive Layer (it Type:	of wetland hydrology : (Describe to the (Matrix Color (moist) 10YR 4/1 10YR 6/1 5Y 5/1 ation, D=Depletion, F tors: (Applicable to on (A2) A3) fide (A4) ors (A5) s; (A6) (LRR P, T, U ineral (A7) (LRR P, triface (A12) Redox (A16) (MLRA Mineral (S1) (LRR C Matrix (S4) (S5) x (S6) (S7) (LRR P, S, T, U f observed):	y was observed (a depth needed to 	at least one primary document the ind Color (moist) 7.5YR 4/6 7.5YR 4/6 7.5YR 5/8 rix, MS=Masked Se so therwise noted Polyvala Thin Da Loamy I Loamy I Loamy I Loamy C X Deplete Redox I Marl (F1 Deplete Marl (F1 Deplete Narl (F1 Deplete Anomale Anomale	A indicator). Redox Fe % 10 30 10 10 30 10 40 10 10 10 10 10 10 10 10 10 1	Trype1 C 6) (F12) (LRR 0, 1 C C C C C C C C <td>Df indicators.)</td> <td>Texture Silt Loam Silt Loam Silt Loam Silt Loam Dere Lining, M=Matrix. Indicators for Proble 1 cm Muck (A9 2 cm Muck (A1 Reduced Vertic Piedmont Floor Anomalous Brig (MLRA 153B) Red Parent Ma Very Shallow D Other (Explain ³Indicators c hydrology m problematic. 53D)</td> <td>Re Heavy organic n Splotch patterm Splotch patterm Permatic Hydric Soils (LRR O) 0) (LRR S) (F18) (outside ML iplain Soils (F19) (L iplain Soils (F19) (L ipht Loamy Soils (F20) terial (TF2) ark Surface (TF12) in Remarks) f hydrophytic vegeta ust be present, unle</td> <td>emarks</td>	Df indicators.)	Texture Silt Loam Silt Loam Silt Loam Silt Loam Dere Lining, M=Matrix. Indicators for Proble 1 cm Muck (A9 2 cm Muck (A1 Reduced Vertic Piedmont Floor Anomalous Brig (MLRA 153B) Red Parent Ma Very Shallow D Other (Explain ³ Indicators c hydrology m problematic. 53D)	Re Heavy organic n Splotch patterm Splotch patterm Permatic Hydric Soils (LRR O) 0) (LRR S) (F18) (outside ML iplain Soils (F19) (L iplain Soils (F19) (L ipht Loamy Soils (F20) terial (TF2) ark Surface (TF12) in Remarks) f hydrophytic vegeta ust be present, unle	emarks
A positive indication SOIL Profile Description: Depth (inches) 0-2 2-8 8-16 ''Type: C=Concentre Hydric Soils Indicat Histosol (A1) Histic Epipeddo Black Histic (A Hydrogen Sulf Stratified Laye Organic Bodie 5 cm Mucky M Coast Prairie f Sandy Muck Coast Prairie f Sandy Mucky Sandy Gleyed Sandy Redox Stripped Matri Dark Surface f Type: Depth (inche	of wetland hydrology : (Describe to the o Matrix Color (moist) 10YR 4/1 10YR 6/1 5Y 5/1 	y was observed (a depth needed to 90 70 90 20 20 20 20 20 20 20 20 20 2	at least one primary document the ind Color (moist) 7.5YR 4/6 7.5YR 4/6 7.5YR 5/8 rix, MS=Masked Se so otherwise note Polyvala Thin Da Loamy I Loamy I Loamy I Loamy I Loamy I Complete Redox I Marl (F1 Deplete Redox I Marl (F1 Redox I Ma	A indicator).	rm the absence of atures 	Df indicators.)	Texture Silt Loam Silt Loam Silt Loam Silt Loam Dere Lining, M=Matrix. Indicators for Proble 1 cm Muck (A9 2 cm Muck (A1 Reduced Vertic Piedmont Floor Anomalous Brig (MLRA 153B) Red Parent Ma Very Shallow D Other (Explain ³ Indicators of hydrology m problematic. 53D)	R(Heavy organic n Splotch patterm 	emarks
A positive indication SOIL Profile Description: Depth (inches) 2 2-8	of wetland hydrology : (Describe to the o Matrix Color (moist) 10YR 4/1 10YR 6/1 5Y 5/1 	y was observed (a depth needed to 	at least one primary document the ind Color (moist) 7.5YR 4/6 7.5YR 4/6 7.5YR 5/8 rix, MS=Masked Se so otherwise note Polyvalu Thin Da Loamy 1 Loamy 1 Loamy 2 Redox I Deplete Redox I Deplete Redox I Deplete Redox I Deplete Anomale Anomale	/ indicator). Redox Fe 	rm the absence of atures Type ¹ C C C C C C C C C C C C C	Df indicators.)	Texture Silt Loam Silt Loam Silt Loam Silt Loam Control of the second se	Reavy organic n Splotch pattern Splotch pattern (LRR O) (LRR O) 0) (LRR S) (F18) (outside ML lplain Soils (F19) (L ght Loamy Soils (F20) terial (TF2) ark Surface (TF12) in Remarks) f hydrophytic veget ust be present, unle	emarks

	Absolute %	Dominant	Indicator		
	cover	Species	Status	Dominance Test worksheet:	
ee Stratum (Plot size: <u>30 ft.</u>)				Number of Dominant Species	
Taxodium distichum	60	Yes	OBL	That Are OBL, FACW, or FAC:	5 (A)
Triadica sebifera	10	No	FAC		
Betula nigra	10	No	FACW	Total Number of Dominant	
				Species Across All Strata:	5 (B)
				Percent of Dominant Species	
	80	= Total Cover		That Are OBL, FACW, or FAC: 1	00% (A/E
50% of total cove	er: 40	20% of total cover:	16		
				Drevelance Index Workshoet	
apling Stratum (Plot size: 30 ft.)				Prevalence index worksheet:	
Triadica sebifera	5	Yes	FAC	Total % Cover of:	Multiply by:
Taxodium distichum	2	Yes	OBL	OBL species 67 x 1 =	67
				EACW species 10 x 2 =	20
				FAC species 15 x 3 =	45
				FACIL species 0 x4 =	0
					0
		= Total Cover			432
CO (/ -54-4-1					132
50% of total cove	er: <u>3.5</u>	20% of total cover:	1.4		
nrub Stratum (Plot size: <u>30 ft.</u>)				Prevalence Index = B/A =	1.43
Taxodium distichum	2	Yes	OBL		
				Hydrophytic Vegetation Indicators:	
				1 - Rapid Test for Hydrophytic Vegetation	
				X 2 - Dominance Test is >50%	
				X 3 - Prevalence Index is $\leq 3.0^1$	
				Problematic Hydrophytic Vegetation ¹ (Exp	olain)
	2	= Total Cavar			
		- Total Cover			
50% of total cove	er: 1	20% of total cover	0.4	¹ Indicators of hydric soil and wetland hydrology mus	st
50% of total cove	er: 1	20% of total cover	0.4	¹ Indicators of hydric soil and wetland hydrology mus be present, unless disturbed or problematic.	st
50% of total covered by the size of the si	er: 1	20% of total cover	0.4	¹ Indicators of hydric soil and wetland hydrology mus be present, unless disturbed or problematic.	st
50% of total covered stratum (Plot size: <u>30 ft.</u>) Saururus cernuus	er: <u>1</u> 3	20% of total cover:	0.4 OBL	¹ Indicators of hydric soil and wetland hydrology mus be present, unless disturbed or problematic. Definitions of Five Vegetation Strata:	st
50% of total cove arb Stratum (Plot size: <u>30 ft.</u>) <u>Saururus cernuus</u>	er: 1	20% of total cover:	0.4 OBL	¹ Indicators of hydric soil and wetland hydrology mus be present, unless disturbed or problematic. Definitions of Five Vegetation Strata:	st
50% of total cove arb Stratum (Plot size: <u>30 ft.</u>) <u>Saururus cernuus</u>	er: 1 3	20% of total cover	0.4 	¹ Indicators of hydric soil and wetland hydrology mus be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines.	st
50% of total covered by the size:	ər: <u>1</u>	20% of total cover:	0.4 	¹ Indicators of hydric soil and wetland hydrology mus be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in.	st
50% of total covered by total coveres by the size: 30 ft.) Saururus cernuus	ər:	20% of total cover:	0.4 	¹ Indicators of hydric soil and wetland hydrology mus be present, unless disturbed or problematic. 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)	st
50% of total covered stratum (Plot size: <u>30 ft.</u>) <u>Saururus cernuus</u>	3 	Yes	0.4	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 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).	st
50% of total covered Stratum (Plot size: <u>30 ft.</u>) <u>Saururus cernuus</u>	3 	Yes Yes	OBL	 ¹Indicators of hydric soil and wetland hydrology mus be present, unless disturbed or problematic. 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). Sabling - Woody plants, excluding woody vines, 	st
50% of total covered Stratum (Plot size: <u>30 ft.</u>) Saururus cernuus	3 	Yes	OBL	 ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 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. 	st
50% of total coverest Stratum (Plot size: <u>30 ft.</u>) Saururus cernuus	3 	Yes	OBL	 ¹Indicators of hydric soil and wetland hydrology mus be present, unless disturbed or problematic. 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 	st
50% of total coveres 50% of to	3 	Yes Yes	0.4	 ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 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. 	st
50% of total coveres 50% of to	3 	Yes Yes	 OBL	 ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 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. 	st
50% of total cover erb Stratum (Plot size: <u>30 ft.</u>) Saururus cernuus	3 	Yes Yes	OBL	 ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 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, 	st
50% of total covered Stratum (Plot size: <u>30 ft.</u>) <u>Saururus cernuus</u>	3 	Yes Yes	OBL	 ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 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. 	st
50% of total covered by total covered by the stratum (Plot size: <u>30 ft.</u>) Saururus cornuus	3 	Yes Yes = Total Cover = Total Cover 20% of total cover:	OBL	 ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 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. 	st
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50% of total cover erb Stratum (Plot size:) Saururus cernuus	3 	Yes Yes Yes Total Cover Yes Yes Total Cover 20% of total cover:	0.4 OBL 	 ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 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 	st
50% of total cover <u>set Stratum</u> (Plot size: <u>30 ft</u>) <u>Saururus cernuus</u> 	9r: 1 3 	Yes Yes Total Cover 20% of total cover: 20% of total cover: 20% of total cover:	0.4 OBL 0.6	 ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 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 	st
50% of total covered Stratum (Plot size: <u>30 ft</u>) Saururus cernuus Sovered Stratum (Plot size: <u>30 ft</u>) Sovered Stratum (Plot size: <u>30 ft</u>)	3 	Yes Yes Total Cover 20% of total cover:	0.4 OBL 0.6	 ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 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. 	st
50% of total covered Stratum (Plot size: <u>30 ft</u>) Saururus cernuus Sovered Stratum (Plot size: <u>30 ft</u>) None Observed Sovered	3 	Yes Yes Yes Total Cover Yes Yes Total Cover 20% of total cover: 20% of total cover:		 ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 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. 	st
50% of total covered Stratum (Plot size: <u>30 ft.</u>) Sourcesses Stratum (Plot size: <u>30 ft.</u>) Sourcesses Stratum (Plot size: <u>30 ft.</u>) None Observed	3 	Ves Yes Yes Total Cover 20% of total cover: 20% of total cover: 20% of total cover: 20% of total cover:	0.4 OBL 0.6	 ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 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. 	st
50% of total cove erb Stratum (Plot size:) Saururus cernuus	3 	Ves Yes Yes Total Cover 20% of total cover: 20% of total cover: 20% of total cover: 20% of total cover:		 ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 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. 	st
50% of total cover erb Stratum (Plot size:) Saururus cernuus	3 3 3 3 3 5 5 1.5	Total Cover 20% of total cover: Yes Total Cover 20% of total cover: Total Cover 20% of total cover: Total Cover 20% of total cover: Total Cover	0.4 OBL 0.6	 ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 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. 	st
50% of total cover erb Stratum (Plot size:	3 3		0.4 OBL 0.6	 ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 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 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 	st
Eerb Stratum (Plot size:	3 3	Total Cover 20% of total cover: Total Cover 20% of total cover: = Total Cover 20% of total cover: 20% of total cover:	0.4 OBL 0.6	 ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 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 20 ft (1 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 	st
50% of total cover erb Stratum (Plot size:	3 3	Total Cover 20% of total cover: Yes Total Cover 20% of total cover: = Total Cover 20% of total cover: 20% of total cover:	0.4 OBL OBL OBL OBL OBL	 ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 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 20 ft (1 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 X No 	st





Project/Site:	Bob An	nthony Parkway F	Relocation	Co	unty:	Rankin	Samplin	g Date:	July 13, 2023
Applicant/Owner:		Mississippi Dep	partment of Transp	ortation	State	e:	Mississippi Sample	Point:	DP17
Investigator(s):	Savannah R. Mo	orales an	d Bettie Sho	pemaker	Section, Township	o, Range:		S02, T6N, R2E	
Landform (hillslope, terrae	ce, etc.):	Slig	ht Depression		Local relief (conc	ave, convex, nor	ne): Concave	Slope (%):	0-5
Subregion (LRR or MLRA	A):	LRF	R P, MLRA 134		Lat: 32.	39208	Long: -90.0584	3 Datum:	NAD 83
Soil Map Unit Name:		Cas	scilla-Arkabutla ass	ociation, frequent	tly flooded		NWI Classification:		PFO1A
Are climatic / hydrologic c	Conditions on the site	typical for this tim	te of year?	() cignificantly	Yes / No)	Yes Aro "Normal Ci	(If no, explain in Rema	rks.) Voc	Y No
Are Vegetation	,30il	NO or Hyd	trology No	naturally pr	oblematic?	Are Normar Cr	needed explain any answ	ers in Remarks)	<u>×</u> N0
SUMMARY OF FI	NDINGS - Attac	h site map s	showing sam	plina point l	ocations. tra	nsects. imp	ortant features. etc		
	Procent?	Voc V	No		1	····, r	· · · · · · · · · · · · · · · · · · ·		
Hydrophylic Vegetation Hydric Soil Present?	Flesent?	Yes X	<u> </u>		Is the Sampled	l Area			
Wetland Hydrology Pres	sent?	Yes X	No		within a Wetla	nd?	Yes X	No	
, , ,									
Remarks: This point was dete	ermined to be within a	wetland due to t	he presence of all t	hree wetland crite	eria.				
					, indi				
Wotland bydrolog	w Indicators:								
wetiand hydrolog							Secondary Indicators	minimum of two re	quired)
Primary Indicators	(minimum of one is re	equired; check all	that apply)	tic Equipo (P12)			Surface Soil C	acks (Bb) tated Concove Su	face (PR)
High Water	(A1)		Aqua	Deposits (B15)	RR II)		Sparsely vege	rns (B10)	Tace (Do)
Saturation ((A3)		Hvdro	ogen Sulfide Odor	r (C1)		Moss Trim Line	es (B16)	
Water Mark	(s (B1)		Oxidi	zed Rhizospheres	s on Living Roots(C3)	Drv-Season W	ater Table (C2)	
Sediment D	Deposits (B2)		Prese	ence of Reduced	Iron (C4)		Crayfish Burro	ws (C8)	
Drift Depos	its (B3)		Rece	nt Iron Reduction	in Tilled Soils (C6	i)	Saturation Visi	ble on Aerial Image	ery (C9)
Algal Mat o	r Crust (B4)		Thin I	Muck Surface (C7	7)		Geomorphic P	osition (D2)	
Iron Deposi	its (B5)		Other	(Explain in Rema	arks)		Shallow Aquita	rd (D3)	
Inundation	Visible on Aerial Imag	jery (B7)					X FAC-Neutral T	est (D5)	
Water-Stair	ned Leaves (B9)						Sphagnum mo	ss (D8) (LRR T, U)
Field Observations:									
Surface Water Present?	Yes	No	x	Depth (inches):	N/A	Wetland Hydr	ology Present?	Yes X	No
Water Table Present?	Yes	No	x	Depth (inches):	>16				
Saturation Present?	Yes	No	х	Depth (inches):	>16				
Describe Recorded	d Data (stream gauge	, monitoring well,	aerial photos, prev	vious inspections)	, if available:				
Pomorko:									
Remarko.									
A positive indication	n of wetland hydrolog	y was observed ((at least two secon	dary indicators).					
A positive indication	n of wetland hydrolog	y was observed ((at least two secon	dary indicators).					
A positive indication	n of wetland hydrolog	y was observed (depth needed to	(at least two secon	dary indicators). dicator or confir	rm the absence o	of indicators.)			
A positive indication SOIL Profile Descriptio Depth	n of wetland hydrolog n: (Describe to the Matrix	y was observed (depth needed to	(at least two secon	dary indicators). dicator or confin Redox Fea	rm the absence o atures	of indicators.)			
A positive indication SOIL Profile Descriptio Depth (inches)	n of wetland hydrolog n: (Describe to the Matrix Color (moist)	y was observed (depth needed to	(at least two secon b document the in Color (moist)	dary indicators). dicator or confir Redox Fea %_	rm the absence o atures Type1	of indicators.)	Texture	R	emarks
A positive indication SOIL Profile Descriptio Depth (inches) 0-4	n of wetland hydrolog n: (Describe to the Matrix Color (moist) 10YR 4/2	y was observed (depth needed to 	(at least two secon b document the in <u>Color (moist)</u> 10YR 4/6	dary indicators). dicator or confin Redox Fea 	rm the absence o atures Type ¹ C	of indicators.)	Texture	R	emarks
A positive indication SOIL Profile Descriptio Depth (inches) 0-4 4-16	n of wetland hydrolog n: (Describe to the Matrix Color (moist) 10YR 4/2 10YR 6/2	depth needed to	(at least two secon o document the in <u>Color (moist)</u> 10YR 4/6 10YR 5/6	dary indicators). dicator or confin Redox Fea % 2 10	rm the absence o atures 	of indicators.) Loc ² M M M	Texture Silt Loam Silt Loam	R	emarks
A positive indication	n of wetland hydrolog n: (Describe to the Matrix Color (moist) 10YR 4/2 10YR 6/2	y was observed (depth needed to 	(at least two secon b document the in <u>Color (moist)</u> <u>10YR 4/6</u> <u>10YR 5/6</u>	dary indicators). dicator or confit Redox Fea % 2 10	rm the absence o atures Type ¹ C C	of indicators.) Loc ² M M	Texture Silt Loam Silt Loam	R	emarks
A positive indication SOIL Profile Descriptio Depth (inches) 0-4 4-16	n of wetland hydrolog n: (Describe to the Matrix Color (moist) 10YR 4/2 10YR 6/2	y was observed (depth needed to 	(at least two secon o document the in <u>Color (moist)</u> 10YR 4/6 10YR 5/6	dary indicators). dicator or confin Redox Fea % 2 10 10	rm the absence o atures <u>Type¹</u> <u>C</u> C	of indicators.) Loc ² M M M —	Texture Silt Loam Silt Loam	R	emarks
A positive indication SOIL Profile Descriptio Depth O-4 4-16	n of wetland hydrolog n: (Describe to the Matrix Color (moist) 10YR 4/2 10YR 6/2	y was observed (depth needed to 	(at least two secon o document the in <u>Color (moist)</u> 10YR 4/6 10YR 5/6	dary indicators).	rm the absence o atures C 	of indicators.)	Texture Silt Loam Silt Loam	R	emarks
A positive indication SOIL Profile Descriptio Depth O-4 4-16 'Type: C=Concent Bydgric Sails Indic	n of wetland hydrolog n: (Describe to the Matrix Color (moist) 10YR 4/2 10YR 6/2 rration, D=Depletion, F	y was observed (depth needed to 	(at least two secon o document the in <u>Color (moist)</u> 10YR 4/6 10YR 5/6 	dary indicators).	rm the absence o atures Type ¹ C C C	of indicators.) Loc ² M M ² Location: PL=	Texture Silt Loam Silt Loam Silt Loam	R	emarks
A positive indication SOIL Profile Descriptio Depth O-4 4-16 'Type: C=Concent Hydric Soils Indic Histosol (A1)	n of wetland hydrolog n: (Describe to the Matrix Color (moist) 10YR 4/2 10YR 6/2 rration, D=Depletion, f ators: (Applicable t	depth needed to 98 - 90 - RM=Reduced Ma co all LRRs, unle	(at least two secon b document the in Color (moist) 10YR 4/6 10YR 5/6 trix, MS=Masked S ss otherwise not Polyza	dary indicators).	rm the absence o atures 	of indicators.)	Texture Silt Loam Silt Loam Pore Lining, M=Matrix. Indicators for Proble	R	emarks
A positive indication SOIL Profile Descriptio Depth O-4 4-16 'Type: C=Concent Hydric Soils Indic Histos (A1) Histos Epipe	n of wetland hydrolog n: (Describe to the Matrix Color (moist) 10YR 4/2 10YR 6/2 rration, D=Depletion, f rration; (Applicable t) ion (A2)	depth needed to	(at least two secon b document the in Color (moist) 10YR 4/6 10YR 5/6 trix, MS=Masked S ss otherwise not Polyva Thin D	dary indicators). dicator or confir Redox Fea 	rm the absence o atures 	of indicators.) Loc ² M M ² Location: PL= U)	Texture Silt Loam Silt Loam Pore Lining, M=Matrix. Indicators for Proble 1 cm Muck (A9) 2 cm Muck (A1)	R	emarks
A positive indication SOIL Profile Descriptio Depth O-4 4-16 'Type: C=Concent Hydric Soils Indic Histosol (A1) Histo Epipeo Black Histo	n of wetland hydrolog n: (Describe to the Matrix Color (moist) 10YR 4/2 10YR 6/2 tration, D=Depletion, F ators: (Applicable t) toon (A2) (A3)	depth needed to	(at least two secon o document the in Color (moist) 10YR 4/6 10YR 5/6 	dary indicators). dicator or confir Redox Fea 	rm the absence o atures C e (S8) (LRR S, T, U) =1) (LRR O)	of indicators.) Loc ² M M 2Location: PL= U)	Texture Silt Loam Silt Loam Pore Lining, M=Matrix. Indicators for Proble 1 cm Muck (A9) 2 cm Muck (A10 Reduced Vertic	R matic Hydric Soil (LRR O)) (LRR S) (F18) (outside ML	emarks
A positive indication SOIL Profile Descriptio Depth O-4 4-16 'Type: C=Concent Hydric Soils Indic Histoc Epipeo Black Histic (Hydrogen St	n of wetland hydrolog n: (Describe to the Matrix Color (moist) 10YR 4/2 10YR 6/2 tration, D=Depletion, F ators: (Applicable t) don (A2) (A3) uffide (A4)	depth needed to	(at least two secon contract the initial Color (moist) 10YR 4/6 10YR 5/6 initial initia	dary indicators). dicator or confin Redox Fea % 2 10 10 Sand Grains. ed.) Iue Below Surface ark Surface (S9) / Mucky Mineral (F Gleved Matrix (F	rm the absence o atures 	of indicators.) Loc ² M M ² Location: PL= U)	Texture Silt Loam Silt Loam Silt Loam Pore Lining, M=Matrix. Indicators for Proble 1 cm Muck (A9) 2 cm Muck (A10 Reduced Vertic Piedmont Flood	R 	emarks
A positive indication SOIL Profile Descriptio Depth 0-4 4-16 1 Type: C=Concent Hydric Soils Indic Histosol (A1) Histosol (A1) Histosol (A1) Histosol (A1) Histosol (A1) Histosol (A1) Stratified Lay	n of wetland hydrolog n: (Describe to the Matrix Color (moist) 10YR 4/2 10YR 6/2 10YR 6/2 tration, D=Depletion, F sators: (Applicable t) don (A2) (A3) ulfide (A4) yers (A5)	depth needed to	(at least two secon contract the initial Color (moist) 10YR 4/6 10YR 5/6 initial initia	dary indicators). dicator or confin Redox Fea % 2 10 10 Sand Grains. ed.) Iue Below Surface ark Surface (S9) / Mucky Mineral (F Gleyed Matrix (F3)	rm the absence o atures C e (S8) (LRR S, T, U) = (LRR S, T, U) = (J, URR O) (2)	of indicators.)	Texture Silt Loam Silt Loam Silt Loam Pore Lining, M=Matrix. Indicators for Proble 1 cm Muck (A9) 2 cm Muck (A10 Reduced Vertic Piedmont Flood Anomalous Brig	matic Hydric Soil (LRR O)) (LRR S) (F18) (outside ML Jain Soils (F19) (L	emarks s ³ : .RA 150A,B) .RR P, S, T) 10)
A positive indication SOIL Profile Descriptio Depth 0-4 4-16 4-16 1 Type: C=Concent Hydric Soils Indic Histoc Epipeo Black Histic (Hydrogen St Stratified Lay Organic Bod	n of wetland hydrolog n: (Describe to the Matrix Color (moist) 10YR 4/2 10YR 6/2 10YR 6/2 tration, D=Depletion, F ators: (Applicable t) don (A2) (A3) ulfide (A4) yers (A5) lies (A6) (LRR P, T, U	y was observed (depth needed to 98 - 99 - 90 - Control - RM=Reduced Ma to all LRRs, unle	(at least two secon color (moist) 10YR 4/6 10YR 5/6 itrix, MS=Masked S itrix, MS=Masked S itrix, DS=Masked S Loamy Loamy Loamy Redox	dary indicators). dicator or confin Redox Fea % 2 10 10 Sand Grains. ed.) Iue Below Surface ark Surface (S9) Mucky Mineral (F Gleyed Matrix (F ed Matrix (F3) Dark Surface (F6)	rm the absence o atures 	of indicators.)	Texture Silt Loam Silt Loam Silt Loam Pore Lining, M=Matrix. Indicators for Proble 1 cm Muck (A9) 2 cm Muck (A10 Reduced Vertic Piedmont Flood Anomalous Brig (MLRA 153B)	matic Hydric Soil (LRR O)) (LRR S) (F18) (outside ML Jain Soils (F19) (L	emarks s ³ : .RA 150A,B) .RR P, S, T) 10)
A positive indication SOIL Profile Descriptio Depth 0-4 4-16 4-16 1 Type: C=Concent Hydric Soils Indic Histosol (A1) Histoc Epipeo Black Histic (Hydrogen St Stratified Lay Organic Bod 5 cm Mucky	n of wetland hydrolog n: (Describe to the Matrix Color (moist) 10YR 4/2 10YR 6/2 10YR 6/2 tration, D=Depletion, F trators: (Applicable t) don (A2) (A3) Jiffde (A4) yers (A5) lies (A6) (LRR P, T, U Mineral (A7) (LRR P,	y was observed (depth needed to 98 99 90 RM=Reduced Ma to all LRRs, unle	(at least two secon contract the initial Color (moist) 10YR 4/6 10YR 5/6 itrix, MS=Masked S itrix, MS=Masked S iss otherwise not Polyva Polyva Loamy Loamy Loamy Redox Deplet	dary indicators). dicator or confin Redox Fea <u>%</u> <u>2</u> <u>10</u> <u>10</u> <u>3</u> <u>4</u> <u>5</u> <u>6</u> <u>5</u> <u>6</u> <u>6</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>1</u>	rm the absence o atures C e (S8) (LRR S, T, (LRR S, T, U) =1) (LRR O) 2) 3) (F7)	of indicators.)	Texture Silt Loam Silt Loam Silt Loam Pore Lining, M=Matrix. Indicators for Proble 1 cm Muck (A9) 2 cm Muck (A10 Reduced Vertic Piedmont Flood Anomalous Brig (MLRA 153B) Red Parent Mat	matic Hydric Soil (LRR O)) (LRR S) (F18) (outside ML Jain Soils (F19) (L ht Loamy Soils (F2 erial (TF2)	emarks s ³ : RA 150A,B) RR P, S, T) 0)
A positive indication SOIL Profile Descriptio Depth 0-4 4-16 1 Type: C=Concent Hydric Soils Indic Histosol (A1) Histic Epipeo Black Histic (Hydrogen St Stratified Lay Organic Bod 5 cm Mucky Muck Preser	n of wetland hydrolog n: (Describe to the Matrix Color (moist) 10YR 4/2 10YR 6/2 10YR 6/2 tration, D=Depletion, F cators: (Applicable t) don (A2) (A3) Jiffide (A4) yers (A5) lies (A6) (LRR P, T, U Mineral (A7) (LRR P, nce (A8) (LRR U)	y was observed (depth needed to 98 - 99 - 90 - RM=Reduced Ma to all LRRs, unle	(at least two secon color (moist) 10YR 4/6 10YR 5/6 10YR 5/6 trix, MS=Masked S ss otherwise not Polyva Polyva Loamy Loamy Redox Deplet Redox	dary indicators). dicator or confin Redox Fea <u>%</u> <u>2</u> <u>10</u> <u>3</u> <u>10</u> <u>4</u> <u>10</u> <u>10</u> <u>5</u> <u>6</u> <u>7</u> <u>8</u> <u>8</u> <u>8</u> <u>8</u> <u>8</u> <u>8</u> <u>8</u> <u>9</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>1</u>	rm the absence o atures <u>Type1</u> C C (C (C (C (C (C (C (C (C	of indicators.)	Texture Silt Loam Silt Loam Silt Loam Pore Lining, M=Matrix. Indicators for Proble 1 cm Muck (A9) 2 cm Muck (A10 Reduced Vertic Piedmont Flood Anomalous Brig (MLRA 153B) Red Parent Mat Very Shallow Da	matic Hydric Soil (LRR O) 1) (LRR S) (F18) (outside ML Jolain Soils (F19) (L ht Loamy Soils (F2) erial (TF2) ark Surface (TF12)	emarks s ³ : RA 150A,B) RR P, S, T) 0)
A positive indication SOIL Profile Descriptio Depth 0-4 4-16 4-16 ''Type: C=Concent Hydric Soils Indic Histoc Gils Indic Histoc Fipeo Black Histic (Hydrogen St Stratified Lay Organic Bod 5 cm Mucky Muck Preser 1 cm Muck (/	n of wetland hydrolog n: (Describe to the Matrix Color (moist) 10YR 4/2 10YR 6/2 10YR 6/2 tration, D=Depletion, F sators: (Applicable t don (A2) (A3) Jiffide (A4) yers (A5) lies (A6) (LRR P, T, U Mineral (A7) (LRR P, nce (A8) (LRR U) A9) (LRR P, T)	y was observed (depth needed to 98 99 RM=Reduced Ma to all LRRs, unle	(at least two secon color (moist) 10YR 4/6 10YR 5/6 10YR 5/6 trix, MS=Masked S ss otherwise not Polyva Polyva Loamy Loamy Redox Deplet Redox Marl (f	dary indicators). dicator or confin Redox Fea <u>%</u> <u>2</u> <u>10</u> <u>3</u> <u>10</u> <u>4</u> <u>10</u> <u>5</u> <u>10</u> <u>5</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u>	rm the absence o atures <u>C</u> C C (LRR S, T, U) E1) (LRR O) (2) (F7)	of indicators.)	Texture Silt Loam Silt Loam Silt Loam Indicators for Proble 1 cm Muck (A9) 2 cm Muck (A10 Reduced Vertic Piedmont Flood Anomalous Brig (MLRA 153B) Red Parent Mat Very Shallow Da Other (Explain i	matic Hydric Soil (LRR O) 1) (LRR S) (F18) (outside ML Jolain Soils (F19) (L ht Loamy Soils (F2) erial (TF2) ark Surface (TF12) h Remarks)	emarks s ³ : RA 150A,B) RR P, S, T) 0)
A positive indication SOIL Profile Descriptio Depth 0-4 4-16 4-16 ''Type: C=Concent Hydric Soils Indic Histosol (A1) Histosol (A1) Histosol (A1) Histosol (A2) Stratified Lay Organic Bod 5 cm Mucky Muck Preser 1 cm Muck (Depleted Bet	n of wetland hydrolog n: (Describe to the Matrix Color (moist) 10YR 4/2 10YR 6/2 10YR 6/2 itration, D=Depletion, F itration, D=Depletion, F itrators: (Applicable t) don (A2) (A3) ulfide (A4) yers (A5) ites (A6) (LRR P, T, U Mineral (A7) (LRR P, nce (A8) (LRR U) A9) (LRR P, T) low Dark Surface (A1)	y was observed (depth needed to 98 - 99 - 90 - RM=Reduced Ma to all LRRs, unle	(at least two secon contract the initial Color (moist) 10YR 4/6 10YR 5/6 trix, MS=Masked S trix, MS=Masked S siss otherwise not Polyva Thin D Loamy Loamy Loamy Redox Deplet Redox Marl (f Deplet	dary indicators). dicator or confin Redox Fea <u>%</u> <u>2</u> <u>10</u> <u>10</u> <u>30</u> <u>40</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>50</u> <u>5</u>	rm the absence o atures Type ¹ C C C e (S8) (LRR S, T, (LRR S, T, U) E1) (LRR O) (F7) (F7) (F7) (MLRA 151)	of indicators.)	Texture Silt Loam Silt Loam Silt Loam It Loam Pore Lining, M=Matrix. Indicators for Proble 1 cm Muck (A9) 2 cm Muck (A10 Reduced Vertic Piedmont Flood Anomalous Brig (MLRA 153B) Red Parent Mat Very Shallow Da Other (Explain i	matic Hydric Soil (LRR O)) (LRR S) (F18) (outside ML olain Soils (F19) (L ht Loamy Soils (F2 erial (TF2) ark Surface (TF12) h Remarks)	emarks s ³ :
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A positive indication SOIL Profile Descriptio Depth 0-4 4-16 'Type: C=Concent Hydric Soils Indic Histosol (A1) Histosol (A1) Histosol (A2) Stratified Lay Organic Bod 5 cm Mucky Muck Preser 1 cm Muck (Depleted Bel Thick Dark S Coast Prairie	n of wetland hydrolog n: (Describe to the Matrix Color (moist) 10YR 4/2 10YR 6/2 10YR 6/2 matrix fration, D=Depletion, f frators: (Applicable t) don (A2) (A3) Jifide (A4) yers (A5) lies (A6) (LRR P, T, U Mineral (A7) (LRR P, nce (A8) (LRR U) A9) (LRR P, T) low Dark Surface (A1 Surface (A12) a Redox (A16) (MLRA	y was observed (depth needed to 98 - 99 - 90 - 0 RM=Reduced Ma to all LRRs, unle 1) T, U) 1) 2 150A)	(at least two secon contractions of the importance of the importa	dary indicators). dicator or confin Redox Fea % 2 10 10 Sand Grains. d.) Sand Grains. d.) Iue Below Surface ark Surface (S9) Mucky Mineral (F Gleyed Matrix (F3) Dark Surface (F6) d Matrix (F3) Dark Surface (F0) d Matrix (F1) d Ochric (F11) (f anganese Masse c Surface (F13) (L	rm the absence o atures <u>Type1</u> <u>C</u> C (C (C (C (LRR S, T, U) (LRR S, T, U) (LRR S, T, U) (F7	of indicators.)	Texture Silt Loam Silt Loam Silt Loam Pore Lining, M=Matrix. Indicators for Proble 1 cm Muck (A9) 2 cm Muck (A10 Reduced Vertic Piedmont Flood Anomalous Brig (MLRA 153B) Red Parent Mat Very Shallow Da Other (Explain i ³ Indicators of hydrology m problematic.	Remarks)	emarks s ³ : RA 150A,B) RR P, S, T) 10) ation and wetland ess disturbed or
A positive indication SOIL Profile Descriptio Depth 0-4 4-16 'Type: C=Concent Hydric Soils Indic Histosol (A1) Histic Epipee Black Histo (Hydrogen Su Stratified Lay Organic Bod 5 cm Mucky Muck Preser 1 cm Muck (Depleted Bel Thick Dark S Coast Prairie Sandy Muck	n of wetland hydrolog n: (Describe to the Matrix Color (moist) 10YR 4/2 10YR 6/2 10YR 6/2 matrix irration, D=Depletion, f rators: (Applicable t) don (A2) (A3) ulfide (A4) yers (A5) lies (A6) (LRR P, T, U Mineral (A7) (LRR P, nce (A8) (LRR U) A9) (LRR P, T) low Dark Surface (A1 Surface (A12) a Redox (A16) (MLRA y Mineral (S1) (LRR C)	y was observed (depth needed to 98 - 99 - 90 - - RM=Reduced Ma to all LRRs, unle 1) T, U) 1) 1) 4 150A) O, S)	(at least two secon control of the initial Color (moist) 10YR 4/6 10YR 5/6 10YR 5/6 itix, MS=Masked S itix, MS=Masked S	dary indicators). dicator or confin Redox Fea % 2 10 10 Sand Grains. ad.) Sand Grains. ad.) Sand Grains. ad.) Iue Below Surface (S9) 1 Mucky Mineral (F Gleyed Matrix (F ed Matrix (F3) Dark Surface (F6) de Dark Surface (F6) de Dark Surface (F6) de Dark Surface (F1) (LRR U) ed Ochric (F11) ((anganese Masse c) Surface (F13) (L Dochric (F12) (MLF	rm the absence o atures 	of indicators.)	Texture Silt Loam Silt Loam Silt Loam Pore Lining, M=Matrix. Indicators for Proble 1 cm Muck (A9) 2 cm Muck (A10 Reduced Vertic Piedmont Flood Anomalous Brig (MLRA 153B) Red Parent Mat Very Shallow Da Other (Explain i ³ Indicators of hydrology m problematic.	Remarks)	emarks s ³ : RA 150A,B) RR P, S, T) 10) ation and wetland ass disturbed or
A positive indication SOIL Profile Descriptio Depth O-4 4-16 'Type: C=Concent Hydric Soils Indic Histosol (A1) Histosol (A1) Histosol (A1) Histosol (A2) Stratified Lay Organic Bod Stratified Lay Organic Bod Stratified Lay Organic Bod Stratified Lay Coganic Bod Stratified Lay Stratified Lay Coganic Bod Stratified Lay Stratified Lay Stratified Lay Coganic Bod Stratified Lay Strat	n of wetland hydrolog n: (Describe to the Matrix Color (moist) 10YR 4/2 10YR 6/2 10YR 6/2 matrix rration, D=Depletion, f rators: (Applicable t) don (A2) (A3) ulfide (A4) yers (A5) lies (A6) (LRR P, T, U Mineral (A7) (LRR P, nce (A8) (LRR U) A9) (LRR P, T) low Dark Surface (A1 Surface (A12) a Redox (A16) (MLRA y Mineral (S1) (LRR C ad Matrix (S4) x (S5)	y was observed (depth needed to 98 - 99 - 90 - 0 - - RM=Reduced Ma to all LRRs, unle 1) T, U) 1) 1) A 150A) O, S)	(at least two secon contractions of the importance of the importa	dary indicators). dicator or confin Redox Fea % 2 10 3 3 3 3 3 3 3 3 3 3 3 3 3	rm the absence o atures 	of indicators.) <u>Loc²</u> <u>M</u> <u>M</u> <u>2</u> Location: PL= U) P, T)	Texture Silt Loam Silt Loam Silt Loam Pore Lining, M=Matrix. Indicators for Proble 1 cm Muck (A9) 2 cm Muck (A10 Reduced Vertic Piedmont Flood Anomalous Brig (MLRA 153B) Red Parent Mat Very Shallow Da Other (Explain i ³ Indicators of hydrology m problematic.	Remarks)	emarks s ³ : RA 150A,B) RR P, S, T) 10) ation and wetland ess disturbed or
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A positive indication SOIL Profile Descriptio Depth O-4 4-16 ' 'Type: C=Concent Hydric Soils Indic Histosol (A1) Histo Epipee Black Histo (A1) Histo Soils Indic Histosol (A1) Histo Soils Indic Stratified Lay Organic Bod Stratified Lay Crganic Bod Crganic Bod Stratified Lay Crganic Bod Stratified La	n of wetland hydrolog n: (Describe to the Matrix Color (moist) 10YR 4/2 10YR 6/2 10YR 6/2 intration, D=Depletion, f intration, D=Depletion, f intrators: (Applicable t) ion (A2) (A3) ulfide (A4) yers (A5) lies (A6) (LRR P, T, U Mineral (A7) (LRR P, T, U Mineral (A7) (LRR P, T) low Dark Surface (A1 isurface (A12) a Redox (A16) (MLRA y Mineral (S1) (LRR C ad Matrix (S4) x (S5) trix (S6) a (S7) (LRR P, S, T, L iste (S7) (LRR P, S, T, L))	y was observed (depth needed to 98 - 90 - 	(at least two secon Color (moist) 10YR 4/6 10YR 5/6 10YR 5/6 itrix, MS=Masked S itrix, MS=Masked S	dary indicators). dicator or confin Redox Fea % 2 10 3 10 3 3 3 3 3 3 3 3 3 3 3 3 3	m the absence o atures <u>Type1</u> <u>C</u> C (LRR S, T, U) =1) (LRR S, T, U) =1) (LRR O) (F7) MLRA 151) s (F12) (LRR O, I) RR P, T, U) RR A 151) MLRA 150A, 150B ils (F19) (MLRA 1 y Soils (F20) (MLI	of indicators.)	Texture Silt Loam Silt Loam Silt Loam Pore Lining, M=Matrix. Indicators for Proble 1 cm Muck (A9) 2 cm Muck (A10 Reduced Vertic Piedmont Flood Anomalous Brig (MLRA 153B) Red Parent Mat Very Shallow Da Other (Explain i 3 Indicators of hydrology m problematic. 153D) ric Soil Present? Yes	R matic Hydric Soil (LRR O) (J (LRR S) (F18) (outside ML olain Soils (F19) (L ht Loamy Soils (F2 erial (TF2) ark Surface (TF12) h Remarks) hydrophytic veget st be present, unle	emarks

	, -		Absolute %	Dominant	Indicator	Dominance Test worksheet:	
			cover	Species	Status	Dominance rest worksheet.	
ee Stratum	(Plot size: 3	<u>0 ft.</u>)				Number of Dominant Species	
Quercus phellos			50	Yes	FACW	That Are OBL, FACW, or FAC:	8 (A)
Ulmus americana		<u> </u>	10	No	FAC		
Quercus laurifolia		<u> </u>	3	No	FACW	I otal Number of Dominant	6 (D)
						Species Across All Strata:	8 (B)
						Percent of Dominant Species	
		<u> </u>	62 -	Total Covor		That Aro ORI EACW or EAC:	100% (Δ
		50% of total cover:	31.5	20% of total cover:	12.6		100 / 0 (//
			01.0	2010 01 10101 00101.	12.0		
apling Stratum	(Plot size: 3	0 ft.)				Prevalence Index Worksheet:	
llex decidua		,	3	Yes	FACW	Total % Cover of:	Multiply by:
Quercus pagoda			2	Yes	FAC	OBL species 0	x 1 = 0
						FACW species 60	x 2 = 120
						FAC species 16	x 3 = 48
						FACU species 0	x 4 = 0
						UPL species 0	x 5 = 0
			5 =	Total Cover		Column Totals: 76	(A) 168
		50% of total cover:	2.5	20% of total cover:	1		
nrub Stratum	(Plot size: 3	<u>0 ft.</u>)				Prevalence Index = B/A =	2.21
Nyssa sylvatica			2	Yes	FAC		
Triadica sebifera			1	Yes	FAC	Hydrophytic Vegetation Indicators:	
						1 - Rapid Test for Hydrophytic Veg	getation
						<u>X</u> 2 - Dominance Test is >50%	
·						X 3 - Prevalence Index is ≤ 3.0'	1
				T / 10			on' (Explain)
		50% 64.4.4	3 =	Iotal Cover			
		50% of total cover:	1.5	20% of total cover:	0.6	he present unless disturbed or problematic	ogy must
erb Stratum	(Plot size: 3)	0 ft)				be present, unless disturbed of problematic.	
Carex cherokeens	sis	<u>, , , , , , , , , , , , , , , , , , , </u>	2	Yes	FACW	Definitions of Five Vegetation Strata:	
Brunnichia ovata			2	Yes	FACW		
Triadica sebifera			1	Yes	FAC	Tree - Woody plants, excluding woody vines	i,
						approximately 20 ft (6m) or more in height an	d 3 in.
						(7.6 cm) or larger in diameter at breast height	t (DBH).
						Sapling - Woody plants, excluding woody vin	ies,
						approximately 20 ft (6 m) or more in height an	nd less
						than 3 in. (7.6 cm) DBH.	
·							
						Shrub - Woody plants, excluding woody vine	s,
			5 =	Total Cover		Shrub - Woody plants, excluding woody vine approximately 3 to 20 ft (1 to 6 m) in height.	s,
		50% of total cover:	<u>5</u> = 2.5	Total Cover 20% of total cover:	1	Shrub - Woody plants, excluding woody vine approximately 3 to 20 ft (1 to 6 m) in height.	s,
		50% of total cover:	<u>5</u> = 2.5	Total Cover 20% of total cover:	1	Shrub - Woody plants, excluding woody vine approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, in	s, cluding
//////////////////////////////////////	(Plot size:	50% of total cover: 30 ft.)	<u>5</u> = 2.5	Total Cover 20% of total cover:	11	 Shrub - Woody plants, excluding woody vine approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, in herbaceous vines, regardless of size, and wo cluster excertainty for intervines. 	is, cluding pody
loody Vine Stratum None Observed	(Plot size:	50% of total cover: 30 ft.)	<u>5</u> = 2.5	Total Cover 20% of total cover:	1	 Shrub - Woody plants, excluding woody vine approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, in herbaceous vines, regardless of size, and wo plants, except woody vines, less than approx 	is, cluding body imately
loody Vine Stratum None Observed	(Plot size:	50% of total cover: 30 ft.)	<u>5</u> = 2.5	Total Cover 20% of total cover:	1	 Shrub - Woody plants, excluding woody vine approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, im herbaceous vines, regardless of size, and wo plants, except woody vines, less than approx 2 ft (1 m) in height. 	is, cluding body imately
loody Vine Stratum None Observed	(Plot size:	50% of total cover: 30 ft)	<u>5</u> = 2.5	Total Cover 20% of total cover:	1	 Shrub - Woody plants, excluding woody vine approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, im herbaceous vines, regardless of size, and wo plants, except woody vines, less than approx 2 ft (1 m) in height. 	s, cluding pody imately beight
loody Vine Stratum . None Observed 	(Plot size:	50% of total cover: 30 ft.)	<u>5</u> = 2.5	Total Cover 20% of total cover:	1	 Shrub - Woody plants, excluding woody vine approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, in herbaceous vines, regardless of size, <u>and wo</u> plants, except woody vines, less than approx 2 ft (1 m) in height. Woody vine - All woody vines, regardless of 	rs, cluding body imately height.
loody Vine Stratum	(Plot size:	50% of total cover: 30 ft.)	<u>5</u> 2.5	Total Cover 20% of total cover:	1	 Shrub - Woody plants, excluding woody vine approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, im herbaceous vines, regardless of size, <u>and wo</u> plants, except woody vines, less than approx 2 ft (1 m) in height. Woody vine - All woody vines, regardless of the second vines. 	rs, cluding body imately height.
loody Vine Stratum	(Plot size:	50% of total cover: 30 ft.)	<u>5</u> 2.5	Total Cover 20% of total cover:	1	 Shrub - Woody plants, excluding woody vine approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, im herbaceous vines, regardless of size, <u>and wo</u> plants, except woody vines, less than approx 2 ft (1 m) in height. Woody vine - All woody vines, regardless of Hydrophytic 	is, cluding body imately height.
loody Vine Stratum	(Plot size:	50% of total cover: 30 ft.)	<u>5</u> = 2.5	Total Cover 20% of total cover:	1	 Shrub - Woody plants, excluding woody vine approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, in herbaceous vines, regardless of size, and wo plants, except woody vines, less than approx 2 ft (1 m) in height. Woody vine - All woody vines, regardless of Hydrophytic Vegetation 	is, cluding body imately height.
loody Vine Stratum None Observed	(Plot size:	50% of total cover: 30 ft.) 50% of total cover:	<u>5</u> = 2.5	Total Cover 20% of total cover:	1	Shrub - Woody plants, excluding woody vine approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, in herbaceous vines, regardless of size, and wo plants, except woody vines, less than approx 2 ft (1 m) in height. Woody vine - All woody vines, regardless of Hydrophytic Vegetation Present? Yes X	s, cluding pody imately height.





Project/Site:	Bob An	thony Parkwa	ay Relocation		Cou	nty:	Rankin	Sampling	Date:	July 13, 2023
Applicant/Owner:		Mississippi	Department of	of Transportation		State	e: N	lississippi Sample F	Point:	DP18
Investigator(s):	Savannah R. Moi	rales	and I	Bettie Shoemaker	S	ection, Township	, Range:		502, T6N, R2E	
Landform (hillslope, terrace	e, etc.):		Undulating P	lane		Local relief (conc	ave, convex, none)	: Convex	Slope (%):	0-5
Subregion (LRR or MLRA)			LRR P, MLRA	A 134		Lat: 32.	39156 Lo	ong: -90.05820	Datum:	NAD 83
Soil Map Unit Name:			Cascilla-Arka	butla association,	frequently	/ flooded		NWI Classification:	. <u> </u>	PF01A
Are climatic / hydrologic co	onditions on the site t	typical for this	s time of year	? Na sia	(Y	es / No)	Yes	_(if no, explain in Remar	(s.)	Y N-
Are Vegetation	NO ,SOII	<u>NO</u> ,or	Hydrology	<u>No</u> sig	nificantiy	disturbed?	Are "Normal Circl	umstances" present?	Yes	X NO
SUMMARY OF FIN	NO ,SOII	h site ma	n showin	no na	noint lo	cations trai	nsects impor	tant features etc	rs in Remarks.)	
				ig sumpling p			noceto, imper			
Hydrophytic Vegetation P	resent?	Yes	<u>x</u>	No	_	le the Compled	A-rao			
Wetland Hydrology Prese	ant?	Ves	<u> </u>		-	within a Wetlan	nd2	Vae	No	Y
wedand Hydrology Frese		165			_	within a wetia		165	NO	<u> </u>
Remarks:	mined not to be with	in a wotland (due te the lee	k of wotland bydra	logy					
	mined not to be with			k of wetland flydro	nogy.					
wetland hydrology	Indicators:							Secondary Indicators (r	ninimum of two rec	quired)
Primary Indicators (n	minimum of one is re	quired; check	k all that apply	/)	(540)			Surface Soil Cra	icks (B6)	(D0)
Surface Water	er (A1) Tabla (A2)			Aquatic Fauna	(B13) (B15) /IE			Sparsely Vegeta	ited Concave Sur	ace (B8)
High Water 1 Saturation (A	1 able (A2)			Hydrogen Sulf	(BIS) (LF			Drainage Patter	(B16)	
Water Marks	~5) s (B1)			Oxidized Rhize	ospheres	on Living Roots(C3)	Dry-Season Wa	ter Table (C2)	
Sediment De	eposits (B2)			Presence of R	educed Ir	on (C4)	30)	Cravfish Burrow	s (C8)	
Drift Deposits	s (B3)			Recent Iron R	eduction i	n Tilled Soils (C6)	Saturation Visib	e on Aerial Image	ry (C9)
Algal Mat or	Crust (B4)			Thin Muck Sur	rface (C7)			Geomorphic Po	sition (D2)	
Iron Deposits	s (B5)			Other (Explain	in Remai	rks)		Shallow Aquitar	1 (D3)	
Inundation Vi	isible on Aerial Imag	ery (B7)						FAC-Neutral Te	st (D5)	
Water-Staine	ed Leaves (B9)							Sphagnum mos	s (D8) (LRR T, U)	
Field Observations:										
Surface Water Present?	Yes	N	o <u>X</u>	Depth (inches):	N/A	Wetland Hydrol	ogy Present?	Yes	No X
Water Table Present?	Yes	N	o <u>X</u>	Depth (inches):	>16				
Saturation Present?	Yes	N	o X	Depth (inches):	>16				
Describe Recorded I	Data (stream gauge,	, monitoring v	well, aerial pho	otos, previous insp	pections),	if available:				
Remarks:										
No positive indication	n of wetland hydrolo	gy was obser	rved.							
No positive indication	n of wetland hydrolo	gy was obser	rved.							
No positive indication	n of wetland hydrolog	gy was obser	rved.				6 :			
No positive indication SOIL Profile Description:	n of wetland hydrolog : (Describe to the o	gy was obser depth neede	rved. ed to docume	ent the indicator	or confirr	n the absence o	f indicators.)			
No positive indication SOIL Profile Description Depth (inches)	n of wetland hydrolog : (Describe to the o Matrix Color (moist)	gy was obser depth neede	rved. ed to docume	ent the indicator of Ringing R	or confirr edox Feat	n the absence o ures Type ¹	f indicators.)	Texture	Re	emarks
No positive indication SOIL Profile Description Oepth (inches) 0-16	 in of wetland hydrolog i: (Describe to the o Matrix Color (moist) 10YR 5/2 	gy was obser depth neede	rved. ed to docume Color (r 7.5YR	ent the indicator of Remoist) 9 (24/6 5	or confirr edox Feat	n the absence o ures Type ¹ C	f indicators.)	Texture	Re	emarks
No positive indication SOIL Profile Description Depth (inches) 0-16	n of wetland hydrolog : (Describe to the of Matrix Color (moist) 10YR 5/2	gy was obser depth neede % 95	rved. ed to docume <u>Color (r</u> 7.5YR	Indicator Ri noist) 9 2.4/6 5	or confirr edox Feat	n the absence o ures Type ¹ C	f indicators.)	Texture Silt Loam	Re	emarks
No positive indication SOIL Profile Description: (inches) 0-16	n of wetland hydrolog : (Describe to the o Matrix Color (moist) 10YR 5/2	gy was obser	rved. ed to docume Color (r 7.5YR	Point the indicator R moist) 9 k 4/6 5	or confirr edox Feat 5	n the absence o ures Type ¹ C	f indicators.)	Texture Silt Loam	Re	emarks
No positive indication SOIL Profile Description: Oepth O-16 O-16 O-16	n of wetland hydrolog : (Describe to the o Matrix Color (moist) 10YR 5/2	gy was obser	rved. ed to docume Color (r 7.5YR	Point the indicator R moist) 9 k 4/6 5	or confirr edox Feat 6	n the absence o ures Type ¹ C	f indicators.)	Texture Silt Loam	Re	emarks
No positive indication SOIL Profile Description: Depth (inches) 0-16	n of wetland hydrolog : (Describe to the o Matrix Color (moist) 10YR 5/2	gy was obser	rved. d to docume Color (r 7.5YR	Point the indicator R moist) 9 1:4/6 5	or confirr edox Feat 5	n the absence o ures Type ¹ C	f indicators.) Loc ² M	Texture Silt Loam	Re	emarks
No positive indication SOIL Profile Description: Depth (inches) 0-16	n of wetland hydrolog : (Describe to the of Matrix Color (moist) 10YR 5/2 ation, D=Depletion, F	gy was obser	to docume Color (r 7.5YR	ent the indicator (moist) 9 14/6 5 	or confirr edox Feat	n the absence o ures Type ¹ C	f indicators.) Loc ² M	Texture Silt Loam re Lining, M=Matrix.	Re	emarks
No positive indication SOIL Profile Description Depth (inches) 0-16 'Type: C=Concentra Hydric Solls Indication	n of wetland hydrolog : (Describe to the of Matrix Color (moist) 10YR 5/2 ation, D=Depletion, F tors: (Applicable to	gy was obser	to docume Color (r 7.5YR	ent the indicator (moist) 9 1.4/6 5 Masked Sand Gra wise noted.)	or confirr edox Feat 5	n the absence o ures Type ¹ C	f indicators.) Loc ² M ² Location: PL=Pc	Texture Silt Loam re Lining, M=Matrix. Indicators for Problem	Re	emarks
No positive indication SOIL Profile Description: Depth (inches) 0-16 'Type: C=Concentra Hydric Soils Indicat Histosol (A1)	n of wetland hydrolog : (Describe to the of Matrix Color (moist) 10YR 5/2 ation, D=Depletion, F tors: (Applicable to	gy was obser	to docume Color (r 7.5YR	ent the indicator in th	or confirr edox Feat 5 5 	n the absence o ures <u>Type¹</u> C (S8) (LRR S, T,	f indicators.) Loc ² M ² Location: PL=Pc U)	Texture Silt Loam re Lining, M=Matrix. Indicators for Problen 1 cm Muck (A9) (Re Re atic Hydric Soils LRR O)	emarks
No positive indication SOIL Profile Description: Depth (inches) 0-16 'Type: C=Concentra Hydric Soils Indicat Histosol (A1) Histo Epipedo	n of wetland hydrolog : (Describe to the of Matrix Color (moist) 10YR 5/2 ation, D=Depletion, F tors: (Applicable to on (A2)	gy was obser	to docume Color (r 7.5YR	ent the indicator (moist) 9 2.4/6 5 Masked Sand Gra wise noted.) Polyvalue Beloo Thin Dark Surfa	or confirr edox Feat 5 5 ins. w Surface ace (S9) (I	n the absence o <u>Type¹</u> <u>C</u> (S8) (LRR S, T, U, LRR S, T, U)	f indicators.) Loc ² M 2Location: PL=Pe	Texture Silt Loam re Lining, M=Matrix. Indicators for Problen 1 cm Muck (A9) (2 cm Muck (A10) Reduced Victic (Re matic Hydric Soils LRR O) (LRR S)	2marks
No positive indication SOIL Profile Description: Depth (inches) 0-16 'Type: C=Concentra Hydric Soils Indicat Histosol (A1) Histic Epipedo Black Histic (A) Histor Soils	n of wetland hydrolog : (Describe to the of Matrix Color (moist) 10YR 5/2 ation, D=Depletion, F tors: (Applicable to pan (A2) A3) 54 - (A4)	gy was obser	to docume Color (r 7.5YR	ent the indicator (Rimoist) 9 14/6 5 Masked Sand Gra wise noted.) Polyvalue Beloo Thin Dark Surfa Loamy Mucky M	or confirm edox Feat 5 	n the absence o ures <u>Type</u> ¹ <u>C</u> (S8) (LRR S, T, U) I) (LRR O)	f indicators.) Loc ² M 2Location: PL=Pe	Texture Silt Loam re Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) Reduced Vertic (Didmost Flood	Re natic Hydric Soils LRR O) (LRR S) E18) (outside MLI	emarks
No positive indication SOIL Profile Description: Depth (inches) 0-16 'Type: C=Concentra Hydric Soils Indicat Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Charlied Low	n of wetland hydrolog : (Describe to the of Matrix Color (moist) 10YR 5/2 ation, D=Depletion, F tors: (Applicable to ban (A2) A3) fide (A4)	gy was obser	to docume Color (r 7.5YR 4 Matrix, MS= unless other 	Masked Sand Gra wise noted.) Polyvalue Belov Thin Dark Surfa Loamy Mucky M	or confirm edox Feat <u>6</u> 5 	n the absence o ures Type ¹ C (S8) (LRR S, T, RR S, T, U) 1) (LRR O)	f indicators.) Loc ² M ² Location: PL=Pc U)	Texture Silt Loam re Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) Reduced Vertic (Piedmort Floodp	Re natic Hydric Soils LRR O) (LRR S) F18) (outside MLI ain Soils (F19) (LI 4 Logany CF19) (E1)	emarks
No positive indication SOIL Profile Description: Depth (inches) 0-16 'Type: C=Concentra Hydric Soils Indicat Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Suff Carteria Bodia	 In of wetland hydrolog (Describe to the of Matrix Color (moist) 10YR 5/2 10YR 5/2 ation, D=Depletion, F attors: (Applicable to bon (A2) A3) fide (A4) ars (A5) ars (A5) 	gy was obser	to docume Color (r 7.5YR Matrix, MS= unless other 	Masked Sand Gra wise noted.) Polyvalue Belov Thin Dark Surfa Loamy Mucky M Depleted Matrix Pedop Dark Su	or confirm edox Feat <u>6</u> <u>5</u> ins. w Surface ace (S9) (I Alineral (F Matrix (F2 (F3))	n the absence o ures Type ¹ C (S8) (LRR S, T, RR S, T, U) 1) (LRR O)	f indicators.) Loc ² M Loc ² A Location: PL=Pc U)	Texture Silt Loam ore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) Reduced Vertic (Piedmont Floodp Anomalous Brigh (MI DA 153B)	Re natic Hydric Soils LRR O) (LRR S) F18) (outside MLI ain Soils (F19) (LI t Loamy Soils (F20)	emarks
No positive indication SOIL Profile Description: Depth (inches) 0-16 'Type: C=Concentre Hydric Soils Indicat Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye Organic Bodie 5 cm Mucky M	 in of wetland hydrolog i: (Describe to the of Matrix Color (moist) 10YR 5/2 10YR 5/2 ation, D=Depletion, F ttors: (Applicable to the file (A2)) A3) fide (A4) ars (A5) as (A6) (LRR P, T, U (Imperal (A7) (J RR P) 	gy was obser depth neede 	to docume Color (r 7.5YR	ent the indicator (moist) 9 24/6 5 24/6 5 Masked Sand Gra wise noted.) Polyvalue Beloo Thin Dark Surfa Loamy Mucky M Loamy Gleyed I Depleted Matrix Redox Dark Su Depleted Dark Su	or confirm edox Feat 5 5 ins. w Surface ace (S9) (I Mineral (F Matrix (F2 c (F3) rface (F6) Surface (F6)	n the absence o ures Type ¹ C (S8) (LRR S, T, LRR S, T, U) 1) (LRR O) (S8)	f indicators.)	Texture Silt Loam re Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) Reduced Vertic (Piedmont Floodp Anomalous Brigh (MLRA 153B) Red Parent Mete	Re natic Hydric Soils LRR O) (LRR S) F18) (outside MLI ain Soils (F19) (LI ain Soils (F19) (LI t Loamy Soils (F20)	emarks
No positive indication SOIL Profile Description: Depth (inches) 0-16 'Type: C=Concentra Hydric Soils Indicat Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Suff Stratified Laye Organic Bodie 5 cm Mucky M	n of wetland hydrolog (Describe to the of Matrix Color (moist) 10YR 5/2 10YR 5/2 ation, D=Depletion, F tors: (Applicable to ban (A2) A3) fide (A4) ers (A5) as (A6) (LRR P, T, U Mineral (A7) (LRR P,	gy was obser depth neede 	to docume Color (r 7.5YR	ent the indicator (Right for the indicator (14/6) 14/6 14/6 14/6 14/6 14/6 Masked Sand Gra wise noted.) Polyvalue Belov Thin Dark Surfa Loamy Gleyed I Depleted Matrix Redox Dark Su Depleted Dark Su Redox Depress	or confirm edox Feat 5 5 ins. w Surface ace (S9) (I Alineral (F Matrix (F2 (F3) rface (F6) Surface (F6) Surface (F6)	n the absence o ures Type ¹ C (S8) (LRR S, T, RR S, T, U) 1) (LRR O) 2) 7)	f indicators.) Loc ² M Loc ² Zuccation: PL=Pc	Texture Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) Reduced Vertic (Piedmont Floodp Anomalous Brigh (MLRA 153B) Red Parent Mate Very Shallow Dar	Re natic Hydric Soils LRR O) (LRR S) F18) (outside MLI ain Soils (F19) (LI t Loamy Soils (F20) it Loamy Soils (F21) k Surface (TF12)	emarks 3: RA 150A,B) RR P, S, T)))
No positive indication SOIL Profile Description: Depth (inches) 0-16 'Type: C=Concentra 'Type: C=Concentra Hydric Soils Indicat Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye Organic Bodie 5 cm Mucky M Muck (At) Nuck (At)	n of wetland hydrolog (In Contemporation of the officient officient of the officient officie	gy was obser depth neede <u>%</u> 95 RM=Reduced o all LRRs, t	d to docume Color (r 7.5YR	ent the indicator (Right for the indicator (14/6	or confirmedox Feat	n the absence o ures Type ¹ C (S8) (LRR S, T, IRR S, T, U) 1) (LRR O) (S8)	f indicators.)	Texture Silt Loam Indicators for Problem Carbon Mediators for Problem Carbon Mediators for Problem Carbon Muck (A9) (Carbon Muck (A10) Reduced Vertic (Piedmont Floodp Anomalous Brigh (MLRA 153B) Red Parent Mate Very Shallow Dar Other (Explain in	Re Retric Hydric Soils LRR O) (LRR S) F18) (outside MLI ain Soils (F19) (LI it Loamy Soils (F20) it Loamy Soils (F20) k Surface (TF12) Remarks)	emarks
No positive indication SOIL Profile Description: Depth (inches) 0-16 'Type: C=Concentre Hydric Soils Indicat Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye Organic Bodie 5 cm Mucky M Muck (At Depleted Belo	n of wetland hydrolog : (Describe to the of Matrix Color (moist) 10YR 5/2 10YR 5/2 ation, D=Depletion, F tors: (Applicable to con (A2) A3) fide (A4) ars (A5) as (A6) (LRR P, T, U Mineral (A7) (LRR P, 9) (LRR P, T) w Dark Surface (A1'	gy was obser depth neede <u>%</u> 95 	to docume Color (r 7.5YR Matrix, MS= unless other X X	ent the indicator (River and the indicator (14/6) 24/6 Masked Sand Gra wise noted.) Polyvalue Belov Thin Dark Surfa Loamy Gleyed I Depleted Matrix Redox Dark Su Depleted Dark 3 Redox Depress Marl (F10) (LRI Depleted Ochrin	or confirm edox Feat <u>6</u> <u>5</u> <u>5</u> <u>6</u> <u>6</u> <u>7</u> <u>7</u> <u>7</u> <u>7</u> <u>7</u> <u>7</u> <u>7</u> <u>7</u> <u>7</u> <u>7</u>	n the absence o <u>Type</u> ¹ <u>C</u> (S8) (LRR S, T, U) (S8) (LRR S, T, U) (S8) (LRR O) (S8) (LRR O) (S8) (LRR O)	f indicators.) Loc ² M Loc ² Zuccation: PL=Pc	Texture Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) Reduced Vertic (Piedmont Floodp Anomalous Brigh (MLRA 153B) Red Parent Mate Very Shallow Dar Other (Explain in	Re Attic Hydric Soils LRR O) (LRR S) F18) (outside MLI ain Soils (F19) (LI t Loamy Soils (F20) rial (TF2) k Surface (TF12) Remarks)	emarks
No positive indication SOIL Profile Description: Depth (inches) 0-16 'Type: C=Concentre Hydric Soils Indicat Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye Organic Bodie 5 cm Mucky M Muck Presenc 1 cm Muck (At Depleted Belo Thick Dark Su	n of wetland hydrolog (In Contemporation of wetland hydrolog (In Color (moist) 10YR 5/2 10YR	gy was obser depth neede 	to docume Color (r 7.5YR 1 Matrix, MS= unless other 	ent the indicator (moist) 9 24/6 5 24/6 5 Masked Sand Gra wise noted.) Polyvalue Beloo Thin Dark Surfa Loamy Gleyed I Depleted Matrix Redox Dark Su Depleted Dark Su Depleted Dark Su Marl (F10) (LRI Depleted Ochrin Iron-Manganess	or confirmedox Feat	n the absence o <u>Type</u> ¹ <u>C</u> (S8) (LRR S, T, RR S, T, U) 1) (LRR O) (S8) (F12) (LRR O, F	f indicators.)	Texture Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) Reduced Vertic (Piedmont Floodp Anomalous Brigh (MLRA 153B) Red Parent Mate Very Shallow Dar Other (Explain in ³ Indicators of I	Re natic Hydric Soils LRR O) (LRR S) F18) (outside MLI ain Soils (F19) (LI t Loamy Soils (F20) rial (TF2) k Surface (TF12) Remarks) nydrophytic vegeta	emarks emarks 3: RA 150A,B) RR P, S, T))) tion and wetland
No positive indication SOIL Profile Description Depth (inches) 0-16 ' 'Type: C=Concentre Hydric Soils Indicat Histics (A) Histic Epipedo Black Histic (A) Histic Epipedo Stratified Laye Organic Bodie 5 cm Mucky Presenc 1 cm Muck (At Depleted Belo Thick Dark Su Coast Prairie I	n of wetland hydrolog (Describe to the of Matrix Color (moist) 10YR 5/2 10YR 5/2 ation, D=Depletion, F itors: (Applicable to bon (A2) A3) fide (A4) ars (A5) ss (A6) (LRR P, T, U Mineral (A7) (LRR P, ce (A8) (LRR U) 9) (LRR P, T) bow Dark Surface (A1: urface (A12) Redox (A16) (MLRA	gy was obser depth neede <u>%</u> 95 	to docume Color (r 7.5YR 1 Matrix, MS= unless other X X	ent the indicator (regist) 9 24/6 5 24/6 5 Masked Sand Gra wise noted.) Polyvalue Beloo Thin Dark Surfa Loamy Mucky M Loamy Gleyed I Depleted Matrix Redox Dark Su Depleted Dark Su Depleted Dark Su Redox Derress Marl (F10) (LRI Depleted Ochrid Iron-Manganess Umbric Surface	or confirmedox Feat	n the absence o <u>Type</u> ¹ <u>C</u> (S8) (LRR S, T, LRR S, T, U) 1) (LRR O) (F12) (LRR O, F RR P, T, U)	f indicators.)	Texture Silt Loam Indicators for Problem Comparison of the second	Re natic Hydric Soils LRR O) (LRR S) F18) (outside MLI ain Soils (F19) (LI ain Soils (F19) (LI t Loamy Soils (F20) rial (TF2) k Surface (TF12) Remarks) nydrophytic vegeta t be present, unless	emarks emarks a a a a c a a c c a a c c c a c c c c c c c c c c c c c
No positive indication SOIL Profile Description Depth (inches) 0-16 ' 'Type: C=Concentre Hydric Soils Indicat Histosol (A1) Histosol (A1) Histic Epipedo Black Histic (A Histosol Suff Stratified Laye Organic Bodie 5 cm Mucky Presence 1 cm Muck Ass Coast Prairie I Sandy Mucky	n of wetland hydrolog (Describe to the of Matrix Color (moist) 10YR 5/2 10YR 5/2 ation, D=Depletion, F itors: (Applicable to on (A2) A3) fide (A4) ars (A5) as (A6) (LRR P, T, U A3) fide (A4) ars (A5) as (A6) (LRR P, T, U Mineral (A7) (LRR P, to (A8) (LRR U) 9) (LRR P, T) w Dark Surface (A12) Redox (A16) (MLRA Mineral (S1) (LRR C	gy was obser depth neede <u>%</u> 95 	to docume Color (r 7.5YR 1 Matrix, MS= unless other X X	ent the indicator (moist) 9 24/6 5 24/6 5 Masked Sand Gra wise noted.) Polyvalue Beloo Thin Dark Surfa Loamy Mucky M Loamy Gleyed I Depleted Matrix Redox Dark Su Depleted Dark Su Depleted Dark Su Depleted Dark Su Depleted Corris Marl (F10) (LRI Depleted Ochris Iron-Manganess Umbric Surface Delta Ochric (F	or confirm edox Feat 6 	n the absence o <u>Type</u> ¹ <u>C</u> (S8) (LRR S, T, LRR S, T, U) 1) (LRR O) (F12) (LRR O, F RR P, T, U) A 151)	f indicators.)	Texture Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) Reduced Vertic (Piedmort Floodp Anomalous Brigh (MLRA 153B) Red Parent Mate Very Shallow Dar Other (Explain in ³ Indicators of I hydrology mus problematic.	Re natic Hydric Soils LRR O) (LRR S) F18) (outside MLI ain Soils (F19) (LI ain Soils (F19) (LI t Loamy Soils (F20 rial (TF2) k Surface (TF12) Remarks) nydrophytic vegeta t be present, unlea	emarks and the second
No positive indication SOIL Profile Description Depth (inches) 0-16 ' 'Type: C=Concentre Hydric Soils Indicat Histics Epipedo Black Histic (A Histics Edipedo Stratified Laye Organic Bodie 5 cm Mucky Presenc 1 cm Muck (At Depleted Belo Thick Dark Su Coast Prairie I Sandy Mucky Sandy Gleyed	n of wetland hydrolog (Describe to the of Matrix Color (moist) 10YR 5/2 10YR 5/2 ation, D=Depletion, F ttors: (Applicable to bon (A2) A3) fide (A4) ars (A5) ss (A6) (LRR P, T, U Mineral (A7) (LRR P, ce (A8) (LRR V) 9) (LRR P, T) bw Dark Surface (A1: urface (A12) Redox (A16) (MLRA Mineral (S1) (LRR C	gy was obser depth neede <u>%</u> 95 	I Matrix, MS=	ent the indicator (regist) 9 24/6 5 24/6 5	or confirr edox Feat 6 	n the absence o <u>Type</u> ¹ <u>C</u> (S8) (LRR S, T, RR S, T, U) (S8) (LRR O) (F12) (LRR O, F RR P, T, U) A 151) LRA 150A, 150B	f indicators.)	Texture Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) Reduced Vertic (Piedmont Floodp Anomalous Brigh (MLRA 153B) Red Parent Mate Very Shallow Dar Other (Explain in ³ Indicators of I hydrology mus problematic.	Re natic Hydric Soils LRR O) (LRR S) F18) (outside MLI ain Soils (F19) (LI t Loamy Soils (F20) rial (TF2) k Surface (TF12) Remarks) hydrophytic vegeta t be present, unles	emarks emarks 3: RA 150A,B) RR P, S, T))) ation and wetland ss disturbed or
No positive indication SOIL Profile Description Depth (inches) 0-16 ' 'Type: C=Concentre Hydric Soils Indicat Histics (A Histics Epipedo Black Histic (A Histic Epipedo Stratified Laye Organic Bodie 5 cm Mucky Presenc 1 cm Muck (At Depleted Belo Thick Dark Su Coast Prairie I Sandy Mucky Sandy Gleyed Sandy Redox	n of wetland hydrolog (Describe to the of Matrix Color (moist) 10YR 5/2 10YR 5/2 ation, D=Depletion, F itors: (Applicable to bon (A2) A3) fide (A4) ars (A5) as (A6) (LRR P, T, U Mineral (A7) (LRR P, ce (A8) (LRR V) 9) (LRR P, T) bw Dark Surface (A12) Redox (A16) (MLRA Mineral (S1) (LRR C 4 Matrix (S4) (S5)	gy was obser depth neede <u>%</u> 95 	to docume Color (r 7.5YR 1 Matrix, MS= unless other X 2 2 2 2 2 2 2 2 2 2 2 2 2	ent the indicator (moist) 9 24/6 5 24/6 5	or confirm edox Feat 6 5 	n the absence o <u>Type</u> ¹ <u>C</u> (S8) (LRR S, T, (S8) (LRR S, T, U) 1) (LRR O) (F12) (LRR O, F RR P, T, U) A 151) LRA 150A, 150B s (F19) (MLRA 1.	f indicators.) 	Texture Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) Reduced Vertic (Piedmont Floodp Anomalous Brigh (MLRA 153B) Red Parent Mate Very Shallow Dar Other (Explain in ³ Indicators of I hydrology mus problematic.	Re natic Hydric Soils LRR O) (LRR S) F18) (outside MLI ain Soils (F19) (LI ain Soils (F19) (LI t Loamy Soils (F20) rial (TF2) k Surface (TF12) Remarks) hydrophytic vegeta t be present, unles	emarks and the second
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No positive indication SOIL Profile Description: Depth (inches) 0-16 ' 'Type: C=Concentra Hydric Soils Indica Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye Organic Bodie 5 cm Mucky Presenc 1 cm Muck Presenc 1 cm P	n of wetland hydrolog (Describe to the of Matrix Color (moist) 10YR 5/2 10YR 5/2 ation, D=Depletion, F tors: (Applicable to on (A2) A3) fide (A4) ars (A5) as (A6) (LRR P, T, U A3) fide (A4) ars (A5) as (A6) (LRR P, T, U W Dark Surface (A12) Redox (A16) (MLRA Mineral (S1) (LRR C Mineral (S1) (LRR C) Mineral (S1) (LR C	gy was obser depth neede <u>%</u> 95 	I Matrix, MS=	ent the indicator (moist) 9 24/6 5 24/6 5 Masked Sand Gra wise noted.) Polyvalue Beloo Thin Dark Surfa Loamy Mucky M Loamy Gleyed I Depleted Matrix Redox Dark Su Depleted Dark Su Depleted Dark Su Depleted Dark Su Depleted Ochric Iron-Manganess Marl (F10) (LRI Depleted Ochric Iron-Manganess Umbric Surface Delta Ochric (F Reduced Vertic Piedmont Flood Anomalous Brig	or confirm edox Feat 6 	n the absence o <u>Type</u> ¹ <u>C</u> (S8) (LRR S, T, LRR S, T, U) 1) (LRR O) (F12) (LRR O, F RR P, T, U) A 151) LRA 150A, 150B s (F19) (MLRA 1. Soils (F20) (MLF	f indicators.) <u>Loc²</u> <u>M</u> <u>2</u> Location: PL=Pc U) P, T) A9A) RA 149A, 153C, 15	Texture Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) Reduced Vertic (Piedmont Floodp Anomalous Brigh (MLRA 153B) Red Parent Mate Very Shallow Dar Other (Explain in ³ Indicators of I hydrology mus problematic. 30)	Re matic Hydric Soils LRR O) (LRR S) F18) (outside MLI ain Soils (F19) (LI ain Soils (F19) (LI t Loamy Soils (F20 rial (TF2) k Surface (TF12) Remarks) hydrophytic vegeta t be present, unles	emarks smarks sition and wetland ss disturbed or
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Polyvalue Beloo Thin Dark Surfa Loamy Mucky M Loamy Gleyed I Depleted Dark Sur Redox Dark Su Depleted Dark Su Depleted Dark Su Depleted Dark Su Depleted Ochric Iron-Manganess Marl (F10) (LRI Depleted Ochric Iron-Manganess Umbric Surface Delta Ochric (F Reduced Vertic Piedmont Flood Anomalous Brig	or confirm edox Feat 6 5 	n the absence o <u>Type</u> ¹ <u>C</u> (S8) (LRR S, T, LRR S, T, U) 1) (LRR O) (S8) (F12) (LRR O, F RR P, T, U) A 151) LRA 150A, 150B (F19) (MLRA 1. Soils (F20) (MLF	f indicators.) 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No positive indication SOIL Profile Description: Depth (inches) 0-16 ''Type: C=Concentra Hydric Soils Indicat Histosol (A1) Histosol (A1) Histoc Epipedo Black Histic (A Hydrogen Sulf Stratified Laye Organic Bodie 5 cm Mucky Presenc 1 cm Muck As Depleted Belo Thick Dark Su Coast Prairie F Sandy Mucky Sandy Gleyed Sandy Redox Stripped Matri Dark Surface I Restrictive Layer (if Type:	n of wetland hydrolog (Describe to the of Matrix Color (moist) 10YR 5/2 10YR 5/2 ation, D=Depletion, F tors: (Applicable to on (A2) A3) fide (A4) ars (A5) ss (A6) (LRR P, T, U A3) fide (A4) ars (A5) ss (A6) (LRR P, T, U Mineral (A7) (LRR P, tors: (A8) (LRR U) 9) (LRR P, T) w Dark Surface (A12) Redox (A16) (MLRA Mineral (S1) (LRR C 4) Matrix (S4) (S5) ix (S6) (S7) (LRR P, S, T, U fobserved):	gy was obser depth neede <u>%</u> 95 	I Matrix, MS=	ent the indicator (roist) 9 44/6 5 44/6 5 44/6 5 44/6 5 44/6 5 44/6 5 44/6 5 5 44/6 5 5 4 4 4 4 4 4 4 4 4 4 4 4 4	or confirm edox Feat 6 5 - - - - - - - - - - - - -	n the absence o <u>Type</u> ¹ <u>C</u> (S8) (LRR S, T, LRR S, T, U) 1) (LRR O) (S8) (F12) (LRR O, F RR P, T, U) A 151) LRA 150A, 150B (F19) (MLRA 1. Soils (F20) (MLF	f indicators.) Loc ² M ² Location: PL=Pc U) P, T) A9A) RA 149A, 153C, 15	Texture Silt Loam Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A9) (2 cm Muck (A10) Reduced Vertic (Piedmont Floodp Anomalous Brigh (MLRA 153B) Red Parent Mate Very Shallow Dar Other (Explain in ³ Indicators of I hydrology mus problematic. 3D)	Re matic Hydric Soils LRR O) (LRR S) F18) (outside MLI ain Soils (F19) (LI t Loamy Soils (F20 rial (TF2) k Surface (TF12) Remarks) nydrophytic vegeta t be present, unles	marks
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No positive indication SOIL Profile Description: Depth (inches) 0-16 ''Type: C=Concentra Hydric Soils Indicat Histics Soils Indicat Histic Foipedo Black Histic (A Hydrogen Sulf Stratified Laye Organic Bodie 5 cm Mucky Presenc 1 cm Muck Presenc 5 cm Mucky M Coast Prairie I Sandy Mucky Sandy Gleyed Stripped Matri Dark Surface (Restrictive Layer (ii Type: Depth (inche	n of wetland hydrolog (Describe to the of Matrix Color (moist) 10YR 5/2 10YR 5/2 ation, D=Depletion, F itors: (Applicable to on (A2) A3) fide (A4) ers (A5) es (A6) (LRR P, T, U dineral (A7) (LRR P, to (A8) (LRR U) 9) (LRR P, T) we Dark Surface (A12) Redox (A16) (MLRA Mineral (S1) (LRR C 4 Matrix (S4) (S5) ix (S6) (S7) (LRR P, S, T, U if observed): es):	gy was obser depth neede 	d to docume Color (r Color (r T.5YR UNIESS other	ent the indicator (roist) 9 24/6 5 24/6 5	or confirm edox Feat 6 5 	n the absence o <u>Type1</u> <u>C</u> (S8) (LRR S, T, LRR S, T, U) 1) (LRR O) (F12) (LRR O, F RR P, T, U) A 151) LRA 150A, 150B s (F19) (MLRA 1- Soils (F20) (MLF	f indicators.) Loc ² M Clocation: PL=Pc U) P, T) A9A) RA 149A, 153C, 15 Hydric	Texture Silt Loam Indicators for Problem Carbon Matrix. Indicators for Problem Carbon Matrix Indicators for Problem Carbon Muck (A9) (Carbon Muck (A9) (Carbon Muck (A10) Reduced Vertic (Piedmont Floadp Anomalous Brigh (MLRA 153B) Red Parent Mate Very Shallow Dar Other (Explain in Silndicators of 1 hydrology mus problematic. 3D) Soil Present? Yes	Re matic Hydric Soils LRR O) (LRR S) F18) (outside MLI ain Soils (F19) (LI iain Soils (F19) (LI t Loamy Soils (F20 rial (TF2) k Surface (TF12) Remarks) mydrophytic vegeta t be present, unles 	marks

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	Absolute % cover	Dominant Species	Indicator Status	Dominance Test work	sheet:			
Tree Stratum (Plot size: 30 ft.)		·		Number of Dominant S	pecies			
1. Triadica sebifera	85	Yes	FAC	That Are OBL, FACW,	or FAC:		6	(A)
2. Ostrya virginiana	8	No	FACU					
3				Total Number of Domin	ant			
4				Species Across All Stra	ita:		8	(B)
5								
6				Percent of Dominant Sp	pecies			
	93 =	 Total Cover 		That Are OBL, FACW,	or FAC:	7	5%	(A/B)
50% of total cov	er: 46.5	20% of total cover:	18.6					
				Prevalence Index Wor	ksheet:			
Sapling Stratum (Plot size: 30 ft.)								
1. Triadica sebifera	10	Yes	FAC	Total %	Cover of:		Multiply by:	
2. Ostrya virginiana	8	Yes	FACU	OBL species	0	x 1 =	0	
3. Quercus stellata	3	No	UPL	FACW species	2	x 2 =	4	
4				FAC species	200	x 3 =	600	
5				FACU species	19	x 4 =	76	
ð				UPL species	3	x 5 =	15	
	=	 Total Cover 		Column Totals:	224	(A)	695	
50% of total cov	er: 10.5	20% of total cover:	4.2					
Shrub Stratum (Plot size: 30 ft.)				Prevalence	Index = B/A =		3.10	
. Triadica sebifera	5	Yes	FAC					
. Callicarpa americana	3	Yes	FACU	Hydrophytic Vegetatio	on Indicators:			
3				1 - Rapid Te	est for Hydrophytic	Vegetation		
4				X 2 - Dominan	ice Test is >50%			
5				3 - Prevalen	ice Index is $\leq 3.0^1$			
6				Problematic	Hydrophytic Vege	etation ¹ (Expl	ain)	
	8_=	Total Cover						
50% of total cov	er: 4	20% of total cover:	1.6	¹ Indicators of hydric s	oil and wetland hy	drology must		
					-			
				be present, unless distu	urbed or problema	tic.		
Herb Stratum (Plot size: 30 ft.)				be present, unless distu	urbed or problema	tic.		
<u>Herb Stratum</u> (Plot size: <u>30 ft.</u>) 1. Chasmanthium sessiliflorum	60	Yes	FAC	be present, unless distu Definitions of Five Ve	urbed or problema	tic.		
lerb Stratum (Plot size:) I. Chasmanthium sessilitiorum 2. Persicaria longiseta	<u>60</u> 35	Yes Yes	FAC FAC	be present, unless dist	urbed or problema	tic.		
<u>Herb Stratum</u> (Plot size: <u>30 ft.</u>) 1. Chasmanthium sessiliflorum 2. Persicaria longiseta 3. Triadica sebifera	60 35 5	Yes Yes No	FAC FAC FAC	be present, unless distu Definitions of Five Ve Tree - Woody plants, e	getation Strata:	tic.		
lerb Stratum (Plot size:) I. Chasmanthium sessilifiorum 2. Persicaria longiseta 3. Triadica sebifera 4	60 35 5	Yes Yes No	FAC FAC FAC	be present, unless distu Definitions of Five Ve Tree - Woody plants, ε approximately 20 ft (6m	getation Strata: excluding woody vi	tic. ines, t and 3 in.		
lerb Stratum. (Plot size:) I. Chasmanthium sessilifiorum 2. Persicaria longiseta 3. Triadica sebifera 4	60 35 5	Yes Yes No	FAC FAC FAC	be present, unless distu Definitions of Five Ve Tree - Woody plants, ε approximately 20 ft (6m (7.6 cm) or larger in dia	getation Strata: excluding woody vi) or more in heigh meter at breast he	tic. ines, t and 3 in. eight (DBH).		
Herb Stratum. (Plot size:30 ft) 1. Chasmanthium sessiliflorum 2. Persicaria longiseta 3. Triadica sebifera 4	60 35 5	Yes Yes No	FAC FAC FAC	be present, unless distu Definitions of Five Ve Tree - Woody plants, e approximately 20 ft (6m (7.6 cm) or larger in dia	getation Strata: excluding woody vi)) or more in heigh meter at breast he	tic. ines, t and 3 in. eight (DBH).		
lerb Stratum. (Plot size:) I. Chasmanthium sessilifiorum 2. Persicaria longiseta 3. Triadica sebifera 4	60 35 5	Yes Yes No	FAC FAC FAC	be present, unless distu Definitions of Five Ve Tree - Woody plants, e approximately 20 ft (6m (7.6 cm) or larger in dia Sapling - Woody plants	urbed or problema getation Strata: excluding woody vi i) or more in heigh meter at breast he s, excluding wood	tic. ines, t and 3 in. eight (DBH). y vines,		
lerb Stratum. (Plot size:) I. Chasmanthium sessilifiorum 2. Persicaria longiseta 3. Triadica sebifera 4	60 35 5 	Yes Yes No	FAC FAC FAC	be present, unless distu Definitions of Five Ve Tree - Woody plants, e approximately 20 ft (6m (7.6 cm) or larger in dia Sapling - Woody plants approximately 20 ft (6 m	urbed or problema getation Strata: excluding woody vi i) or more in heigh meter at breast he s, excluding woody n) or more in heigh	tic. ines, t and 3 in. eight (DBH). y vines, nt and less		
Herb Stratum (Plot size:	60 35 5 	Yes Yes No	FAC FAC FAC	be present, unless distu Definitions of Five Ve Tree - Woody plants, e approximately 20 ft (6m (7.6 cm) or larger in dia Sapling - Woody plants approximately 20 ft (6 m than 3 in. (7.6 cm) DBH	getation Strata: excluding woody vi) or more in heigh meter at breast he s, excluding woody n) or more in heigh I.	tic. ines, t and 3 in. eight (DBH). y vines, nt and less		
Herb Stratum (Plot size:	60 35 5 	Yes Yes No	FAC FAC FAC	be present, unless distu Definitions of Five Ve Tree - Woody plants, e approximately 20 ft (6m (7.6 cm) or larger in dia Sapling - Woody plants approximately 20 ft (6 m than 3 in. (7.6 cm) DBH	arbed or problema getation Strata: excluding woody vi i) or more in heigh meter at breast he s, excluding woody n) or more in heigh l.	tic. t and 3 in. eight (DBH). y vines, nt and less		
Herb Stratum (Plot size:	60 35 5 	Yes Yes No	FAC FAC FAC	be present, unless distu Definitions of Five Ve Tree - Woody plants, e approximately 20 ft (6m (7.6 cm) or larger in dia Sapling - Woody plants approximately 20 ft (6 m than 3 in. (7.6 cm) DBH Shrub - Woody plants,	arbed or problema getation Strata: excluding woody vi i) or more in heigh meter at breast he s, excluding woody n) or more in heigh l. excluding woody	tic. ines, t and 3 in. eight (DBH). y vines, nt and less vines,		
Herb Stratum (Plot size:30 ft) 1. Chasmanthium sessilifiorum 2. 2. Persicaria longiseta 3. 3. Triadica sebifera 4. 4.	60 35 5 	Yes Yes No	FAC FAC FAC	be present, unless distu Definitions of Five Ve Tree - Woody plants, e approximately 20 ft (6m (7.6 cm) or larger in dia Sapling - Woody plants approximately 20 ft (6 m than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 ft	getation Strata: excluding woody vi) or more in heigh meter at breast he s, excluding woody n) or more in heigh I. excluding woody : (1 to 6 m) in heigi	tic. t and 3 in. eight (DBH). y vines, nt and less vines, ht.		
Herb Stratum (Plot size:30 ft) 1. Chasmanthium sessilifiorum	60 35 5 	Yes Yes No Total Cover 20% of total cover:	FAC FAC FAC	be present, unless distu Definitions of Five Ve Tree - Woody plants, e approximately 20 ft (6m (7.6 cm) or larger in dia Sapling - Woody plants approximately 20 ft (6 m than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 ft	getation Strata: excluding woody vi i) or more in heigh meter at breast he s, excluding woody n) or more in heigh I. excluding woody : (1 to 6 m) in heigh	tic. t and 3 in. eight (DBH). y vines, nt and less vines, ht.		
Herb Stratum (Plot size:30 ft) 1. Chasmanthium sessilifiorum	60 35 5 	Yes Yes No Total Cover 20% of total cover:	FAC FAC FAC	be present, unless distu Definitions of Five Ve Tree - Woody plants, e approximately 20 ft (6m (7.6 cm) or larger in dia Sapling - Woody plants approximately 20 ft (6 n than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous (getation Strata: excluding woody vi i) or more in heigh meter at breast he s, excluding woody n) or more in heigh l. excluding woody i (1 to 6 m) in heigi non-woody) planta	tic. t and 3 in. eight (DBH). y vines, nt and less vines, ht. s, including		
Herb Stratum (Plot size:30 ft) 1. Chasmanthium sessilifiorum	60 35 5 	Yes No No Total Cover 20% of total cover:	FAC FAC FAC	be present, unless distu Definitions of Five Ve Tree - Woody plants, e approximately 20 ft (6m (7.6 cm) or larger in dia Sapling - Woody plants approximately 20 ft (6 n than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous (herbaceous vines, rega	urbed or problema getation Strata: excluding woody vi) or more in heigh meter at breast he s, excluding woody n) or more in heigh excluding woody vi (1 to 6 m) in heigh inon-woody) plants rdless of size, <u>and</u>	tic. ines, t and 3 in. eight (DBH). y vines, nt and less vines, ht. s, including <u>d</u> woody		
lerb Stratum (Plot size:	60 35 5 	Yes No No Total Cover 20% of total cover:	FAC FAC FAC 20 FACW	be present, unless distu Definitions of Five Ve Tree - Woody plants, e approximately 20 ft (6m (7.6 cm) or larger in dia Sapling - Woody plants approximately 20 ft (6 n than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous (herbaceous vines, rega plants, except woody vi	getation Strata: excluding woody vi o) or more in heigh meter at breast he s, excluding woody n) or more in heigh l. excluding woody i (1 to 6 m) in heigi non-woody) plants urdless of size, <u>and</u> nes, less than app	tic. ines, t and 3 in. eight (DBH). y vines, nt and less vines, ht. s, including <u>d</u> woody proximately		
Herb Stratum (Plot size:30 ft) 1. Chasmanthium sessilifiorum	60 35 5 	Yes No No Total Cover 20% of total cover:	FAC FAC FAC	be present, unless distu Definitions of Five Ve Tree - Woody plants, e approximately 20 ft (6m (7.6 cm) or larger in dia Sapling - Woody plants approximately 20 ft (6 m than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous (herbaceous vines, rega plants, except woody vi 2 ft (1 m) in height.	getation Strata: excluding woody vi o) or more in heigh meter at breast he s, excluding woody n) or more in heigh l. excluding woody (1 to 6 m) in heigh (1 to 6 m) in heigh inon-woody) plants ardless of size, <u>and</u> nes, less than app	tic. ines, t and 3 in. ight (DBH). y vines, nt and less vines, ht. s, including <u>d</u> woody proximately		
lerb Stratum. (Plot size:30 ft) . Chasmanthium sessififiorum . Persicaria longiseta . Triadica sebifera	60 35 5 	Yes No No Total Cover 20% of total cover:	FAC FAC FAC 20 FACW	be present, unless distu Definitions of Five Ve Tree - Woody plants, e approximately 20 ft (6m (7.6 cm) or larger in dia Sapling - Woody plants approximately 20 ft (6 m than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous (herbaceous vines, rega plants, except woody vi 2 ft (1 m) in height.	arbed or problema getation Strata: excluding woody vi or more in heigh meter at breast he s, excluding woody n) or more in heigh l. excluding woody (1 to 6 m) in heigh inon-woody) plants ardless of size, <u>and</u> nes, less than app	tic. ines, t and 3 in. ight (DBH). y vines, nt and less vines, ht. s, including <u>d</u> woody proximately		
Herb Stratum (Plot size:30 ft) 1. Chasmanthium sessilifiorum	60 35 5 	Yes No No Total Cover 20% of total cover:	FAC FAC FAC 20 FACW	be present, unless distu Definitions of Five Ve Tree - Woody plants, e approximately 20 ft (6m (7.6 cm) or larger in dia Sapling - Woody plants approximately 20 ft (6 m than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous (herbaceous vines, rega plants, except woody vi 2 ft (1 m) in height. Woody vine - All wood	arbed or problema getation Strata: excluding woody vi or more in heigh meter at breast he s, excluding woody n) or more in heigh l. excluding woody i (1 to 6 m) in heigh i (1 to 6 m) in height i (1 to 6 m) in height	ines, t and 3 in. eight (DBH). y vines, nt and less vines, ht. s, including d woody proximately s of height.		
Herb Stratum (Plot size:30 ft) 1. Chasmanthium sessilillorum 2. Periscaria longiseta 3. Triadica sebifera 4	60 35 5 	Yes No No Total Cover 20% of total cover:	FAC FAC FAC 20	be present, unless distu Definitions of Five Ve Tree - Woody plants, e approximately 20 ft (6m (7.6 cm) or larger in dia Sapling - Woody plants approximately 20 ft (6 m than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous (herbaceous vines, rega plants, except woody vi 2 ft (1 m) in height. Woody vine - All wood	arbed or problema getation Strata: excluding woody vi o) or more in heigh meter at breast he s, excluding woody n) or more in heigh l. excluding woody i (1 to 6 m) in heigh non-woody) plants ardless of size, <u>and</u> nes, less than app y vines, regardless	tic. ines, t and 3 in. ight (DBH). y vines, nt and less vines, ht. s, including <u>d</u> woody proximately s of height.		
Herb Stratum (Plot size:30 ft) 1. Chasmanthium sessififorum 2. Persicaria longiseta 3. Triadica sebifera 4	60 35 5 	Yes No No Total Cover 20% of total cover: Yes	FAC FAC FAC	be present, unless distu Definitions of Five Ve Tree - Woody plants, e approximately 20 ft (6m (7.6 cm) or larger in dia Sapling - Woody plants approximately 20 ft (6 m than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous (herbaceous vines, rega plants, except woody vi 2 ft (1 m) in height. Woody vine - All wood Hydrophytic	urbed or problema getation Strata: excluding woody vi o) or more in heigh meter at breast he s, excluding woody n) or more in heigh l. excluding woody i (1 to 6 m) in heigh i. (1 to 6 m) in heigh rolless of size, <u>and</u> nes, less than app y vines, regardles:	tic. ines, t and 3 in. eight (DBH). y vines, ht and less vines, ht. s, including <u>d</u> woody proximately s of height.		
Herb Stratum (Plot size:30 ft) 1. Chasmanthium sessififorum 2. Persicaria longiseta 3. Triadica sebifera 4	60 35 5 	Yes No No No Total Cover 20% of total cover: Yes Yes Total Cover 20% of total cover:	FAC FAC FAC 20 FACW 0.4	be present, unless distu Definitions of Five Ve Tree - Woody plants, e approximately 20 ft (6m (7.6 cm) or larger in dia Sapling - Woody plants approximately 20 ft (6 m than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous (herbaceous vines, rega plants, except woody vi 2 ft (1 m) in height. Woody vine - All wood Hydrophytic Vegetation	getation Strata: excluding woody vi) or more in heigh meter at breast he s, excluding woody n) or more in heigh excluding woody i. excluding woody i. excludi. exc	tic. t and 3 in. eight (DBH). y vines, tt and less vines, ht. s, including d woody proximately s of height.		
Herb Stratum (Plot size:30 ft) 1. Chasmanthium sessiliforum 2. Persicaria longiseta 3. Triadica sebifera 4	60 35 5 	Yes No No No Total Cover 20% of total cover: Yes Yes Z0% of total cover:	FAC FAC FAC 20 FACW 0.4	be present, unless distu Definitions of Five Ve Tree - Woody plants, e approximately 20 ft (6m (7.6 cm) or larger in dia Sapling - Woody plants approximately 20 ft (6 m than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous (herbaceous vines, rega plants, except woody vi 2 ft (1 m) in height. Woody vine - All wood Hydrophytic Vegetation Present?	arbed or problema getation Strata: excluding woody vi) or more in heigh meter at breast he s, excluding woody n) or more in heigh excluding woody n) or more in heigh excluding woody it to 6 m) in heigh inon-woody) plants ardless of size, <u>and</u> ines, less than app y vines, regardless Yes X	tic. ines, t and 3 in. eight (DBH). y vines, ht and less vines, ht. s, including <u>d</u> woody proximately s of height.		

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





Project/Site:	Bob A	nthony Parkway	Relocation		Cou	inty:	Rankin	Sampling	Date:	July 13, 2023
Applicant/Owner:		Mississippi D	epartment of	Transportation		Stat	e: N	/ississippi Sample P	oint:	DP19
Investigator(s):	Savannah R. Mo	orales	and <u>B</u> e	ettie Shoemaker	r \$	Section, Township	, Range:	S	502, T6N, R2E	
Landform (hillslope, terra	ace, etc.):	ι	Jndulating Pla	ne		Local relief (cond	ave, convex, none): Concave	Slope (%):	0-5
Subregion (LRR or MLR)	A):	L	RR P, MLRA	134		Lat: 32.	39079 L	ong: -90.05642	Datum:	NAD 83
Soil Map Unit Name:		C	ascilla-Arkabi	utla association	, frequentl	y flooded		NWI Classification:		PF01A
Are climatic / hydrologic	conditions on the site	typical for this	time of year?	Ne ai	(Y anificantly	'es / No)	Yes	_(if no, explain in Remark	(S.) Voc	Y Na
Are Vegetation	<u>No</u> ,301	,01F 	lydrology	<u>No</u> na	grincariuy aturally pro	ulsiul beu ?	Are Normar Circ	eded explain any answe	rs in Remarks)	
SUMMARY OF FI	NDINGS - Attac	ch site mar	showing	sampling	point lo	ocations, tra	nsects, impo	tant features, etc.	is in Remarks.	
Hydrophytic Vogotation	Drecent?	Vee	v	No		,	,			
Hydrophylic Vegetation Hydric Soil Present?	Flesent	Yes	<u>^</u>			Is the Sampler	Area			
Wetland Hydrology Pre	sent?	Yes		No X		within a Wetla	nd?	Yes	No	х
					_					
Remarks: This point was det	ermined not to be with	nin a wetland di	ue to the lack	of hvdric soils a	ind wetland	d hydrology.				
						, 3, .				
Wetland hydrolog	ny Indicators:							<u> </u>		
			-11 414 1)					Secondary Indicators (m	ninimum of two rec	quired)
Primary Indicators	(minimum of one is re	equirea; cneck	ali that apply)	Aquatic Foun	o (P12)			Surface Soll Cra	CKS (Bb) tod Concovo Surf	(P9)
High Wate	r Table (A2)			Marl Deposits	a (B15) s (B15) (LF	RR U)		Drainage Patterr	ned Concave Sun	ace (DO)
Saturation	(A3)			Hvdrogen Sul	lfide Odor	(C1)		Moss Trim Lines	(B16)	
Water Mar	ks (B1)			Oxidized Rhiz	zospheres	on Living Roots	C3)	Dry-Season Wat	ter Table (C2)	
Sediment [Deposits (B2)			Presence of F	Reduced Ir	ron (C4)		Crayfish Burrows	s (C8)	
Drift Depos	sits (B3)			Recent Iron F	Reduction i	in Tilled Soils (C6)	Saturation Visible	e on Aerial Image	ry (C9)
Algal Mat c	or Crust (B4)			Thin Muck Su	urface (C7))		Geomorphic Pos	sition (D2)	
Iron Depos	sits (B5)			Other (Explai	n in Rema	rks)		Shallow Aquitard	I (D3)	
Inundation	Visible on Aerial Imag	gery (B7)						X FAC-Neutral Tes	st (D5)	
Water-Stai	ined Leaves (B9)							Sphagnum moss	s (D8) (LRR T, U)	
Field Observations:										
Surface Water Present	? Yes	No	X	Depth	(inches):	N/A	Wetland Hydrol	ogy Present?	Yes	<u>No X</u>
Water Table Present?	Yes	No	<u>X</u>	Depth	(inches):	>16				
Saturation Present?	Yes	No	X	Depth	(inches):	>16				
Describe Recorde	d Data (stream gauge	e, monitoring we	ell, aerial priot	os, previous ins	spections),	li avaliable:				
Remarks:										
No positivo indicat	tion of wotland bydrok		od							
No positive indicat	tion of wetland hydrolo	ogy was observ	ed.							
No positive indicat	tion of wetland hydrold	ogy was observ	ed.							
No positive indicat SOIL Profile Descriptic	ion of wetland hydrolo	ogy was observ depth needed	ed. to documen	t the indicator	or confirm	m the absence o	f indicators.)			
No positive indicat SOIL Profile Descriptic Depth	tion of wetland hydrolo on: (Describe to the Matrix	ogy was observ depth needed	ed. I to documen	t the indicator	or confir Redox Fea	m the absence o	f indicators.)			
No positive indicat SOIL Profile Descriptic Depth (inches)	tion of wetland hydrolo on: (Describe to the Matrix Color (moist)	depth needed	ed. to documen	t the indicator	or confiri Redox Fea	m the absence o tures Type ¹	f indicators.)	Texture		emarks
No positive indicat SOIL Profile Descriptic Depth (inches) 0-3	tion of wetland hydrolo on: (Describe to the Matrix Color (moist) 10YR 5/3	depth needed	to documen Color (ma 10YR 4	t the indicator	or confirm Redox Fea %8	m the absence o tures Type ¹ C	f indicators.)	Texture Silt Loam	R6	emarks
No positive indicat SOIL Profile Descriptic Depth (inches) 0-3 3-16	tion of wetland hydrolo on: (Describe to the Matrix Color (moist) 10YR 5/3 10YR 6/3	depth needed	ed. to documen <u>Color (ma</u> <u>10YR 4</u> 10YR 7	t the indicator F pist) /4 /1	or confir Redox Fea %	m the absence of tures Type ¹ C D	f indicators.)	Texture Silt Loam Silt Loam	Re	emarks
No positive indicat SOIL Profile Descriptic Depth (inches) 0-3 3-16	tion of wetland hydrolo on: (Describe to the Matrix Color (moist) 10YR 5/3 10YR 6/3	depth needed	ed. to documen <u>Color (mc</u> 10YR 4 10YR 7 10YR 5	t the indicator F bist) // // // // // // //	or confir Redox Fea %	m the absence of tures Type ¹ C D C	f indicators.) Loc ² M M M	Texture Silt Loam Silt Loam	Re	emarks
No positive indicat SOIL Profile Descriptic Depth (inches)	tion of wetland hydrolo on: (Describe to the Matrix Color (moist) 10YR 5/3 10YR 6/3	depth needed	ed. to documen <u>Color (ma</u> <u>10YR 4</u> <u>10YR 7</u> <u>10YR 5</u>	t the indicator F Dist) (1 (1 (4 (4 (4 (4 (4) (4) (4) (4) (4	or confiri Redox Fea % 8 5 5	m the absence of tures Type ¹ C D C	f indicators.) Loc ² M M M M	Texture Silt Loam Silt Loam	Re	emarks
No positive indicat SOIL Profile Descriptic Depth (inches) 0-3 3-16 'Type: C=Concen	tion of wetland hydrolo on: (Describe to the Matrix Color (moist) 10YR 5/3 10YR 6/3 tration, D=Depletion,	depth needed	ed. to documen Color (ma 10YR 4 10YR 7 10YR 5 Matrix, MS=M.	t the indicator	or confirm Redox Fea %	m the absence of tures C D C C	f indicators.)	Texture Silt Loam Silt Loam	Re	emarks
No positive indicat SOIL Profile Description Depth (inches) 0-3 3-16 'Type: C=Concen Hydric Soils India	tion of wetland hydrolo on: (Describe to the Matrix Color (moist) 10YR 5/3 10YR 6/3 tration, D=Depletion, cators: (Applicable	depth needed	ed. to documen Color (ma 10YR 4 10YR 7 10YR 5 Matrix, MS=M.	t the indicator F ist) /4 /1 /4 /4 masked Sand Gra ise noted.)	or confirm Redox Fea %	m the absence of tures C D C	f indicators.) Loc ² M M M ² Location: PL=Pd	Texture Silt Loam Silt Loam ore Lining, M=Matrix.	Re	emarks
No positive indicat SOIL Profile Description Depth (inches) 3-16 3-16 'Type: C=Concen Hydric Soils India Histosol (A1	tion of wetland hydrolo on: (Describe to the Matrix Color (moist) 10YR 5/3 10YR 6/3 tration, D=Depletion, cators: (Applicable)	depth needed	ed. to documen Color (ma 10YR 4 10YR 7 10YR 5 Matrix, MS=M. Iless otherwi	t the indicator	or confirm Redox Fea %	m the absence of tures C D C e (S8) (LRR S, T,	of indicators.)	Texture Silt Loam Silt Loam ore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I	Re Re atic Hydric Soils LRR O)	emarks
No positive indicat SOIL Profile Description Depth (inches) 3-16 ''Type: C=Concen Hydric Soils Indic Histosol (A1 Histo Epipe	tion of wetland hydrolo on: (Describe to the Matrix Color (moist) 10YR 5/3 10YR 6/3 tration, D=Depletion, cators: (Applicable) don (A2)	depth needed	ed. to documen Color (ma 10YR 4 10YR 7 10YR 5 Matrix, MS=M. Matrix, MS=M.	t the indicator F ist) /4 /1 /4 /2 /4 /4 /4 /4 /4 /4 /4 /4 /4 /4 /4 /4 /4	or confir Redox Fea % 5 5 ains.	m the absence of tures C D C (S8) (LRR S, T, LRR S, T, U)	of indicators.)	Texture Silt Loam Silt Loam Indicators for Problem 2 cm Muck (A9) (I 2 cm Muck (A10)	Re matic Hydric Soils LRR O) (LRR S)	emarks
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Jame of the second se				IU	No	FACW	Total Number of Dominant	
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Bit and a cover Bit and cover Bit and a cover Bi	Carya glabra			3	<u></u>	FACU	Species Across All Strata.	6 (D)
Bit of total cover:							Percent of Dominant Species	
S0% of total cover: 13.6 Prevalence index Worksheet: Carya tommittee 20 Yes UPL Carya tommittee 20 Yes At 4 Carya tommittee 20 Total % Cover of. Multiply br. Cover 30 Total % Cover of. X 4 = 9 FACV species 3 X 4 = 12 UPL Use cover 5 Yes FACW Prevalence index = BA = 4.31 UPL species 30 Total % Cover 1 1 / Apal Test for hysophytic Vagetation Section Test > 50% Sol% of total cover 2.5 20% of total cover 1 Indicators thytics and understand hydrology must tee prevalues thytics hytics (Esplain) Test = Noody plants, excluting woody vires, espocianade y 20 (6 m) or more in height and is an 3 in (7 & m) or larget in diameter at breast height (BFt). Sepocianade y 20				98	= Total Cover		That Are OBL_EACW_or EAC	67% (A/
Bind (Pot size: 30 ft 20 Yes UPL Chype tomention 20 Yes UPL Total '6 Cover of: X 1 = 0 Chype tomention 20 Yes UPL Total '6 Cover of: X 1 = 0 Chype tomention 20 Yes UPL Sold Uppoint X 1 = 0 Chype tomention 20 Total Cover 3 X 4 = 12 UPL species 3 X 4 = 12 20 Total Cover 3 Yes FACW 132 (A) 577 Mid dockla 5 Yes FACW Provalence Index to 3: 132 (A) 577 Statum (Pot size: 30 ft 5 Yes FACW Provalence Index to 5: 30's 3 Yes FACW Provalence Index to 5: 30's 3 Yes			50% of total cover:	49	20% of total cover:	19.6		
Produce motion 20 Yes UPL Carys streamboas 20 Yes UPL Total % Cover of: Multiply by: Carys streamboas 20 Yes UPL OBL spocies 20 x 2 = 56 Carys streamboas 20 = -							Developer of the dev We developed a	
Carrye tomentose 20 Yes UPL Image: Construction of the	apling Stratum (PI	ot size:	30 ft.)				Prevalence index worksheet:	
	Carya tomentosa		,	20	Yes	UPL	Total % Cover of:	Multiply by:
							OBL species 0	x 1 = 0
							FACW species 28	x 2 = 56
Analytic is in the intervention of the isolation isolation of the isolation isolation of the isolatison of the isolation of the isolation of the							FAC species 3	x 3 = 9
20 = Total Cover 50% of total cover: 10 x 5 = 500 100 x 5 = 500							FACU species 3	x 4 = 12
_20							UPL species 100	x 5 = 500
S0% of total cover: 10 20% of total cover: 4 nub Stratum (Plot size: 30 ft.) liex decidua 5 Yes FACW Prevalence Index = B(A =				20	= Total Cover		Column Totals: 134	(A) 577
number of the stratum (Plot stze:30 ft)			50% of total cover:	10	20% of total cover:	4		
Idex decidua 5 Yes FACW Idex decidua 5 Yes FACW Hydrophytic Vegetation Indicators: 1 1 Image: Softward in the indicators: 1 1 Softward indicators: 1 1 Softward in the indicators: 1 1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
like decklos 5 Yes FACW Hydrophytic Vegetation Indicators:	rub Stratum (Pl	ot size:	<u>30 ft.</u>)				Prevalence Index = B/A =	4.31
	llex decidua			5	Yes	FACW		
							Hydrophytic Vegetation Indicators:	
							1 - Rapid Test for Hydrophytic	c Vegetation
			<u> </u>	·			<u>X</u> 2 - Dominance Test is >50%	1
5 = Total Cover 50% of total cover: 2.5 20% of total cover: 2.5 20% of total cover: 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Arundmaria tecta 5 Carex cherokeensis 3 Yes FACW Definitions of Five Vegetation Strata: Chasmanthium sessiliforum 3 Yes FAC Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) DBH. Sapting - 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 20 ft (1 to 6 m) in height. Merb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, regardless of size, and woody plants, except woody vines, regardless of height. None Observed			<u> </u>				3 - Prevalence Index Is ≤ 3.0	etation ¹ (Evaloin)
50% of total cover: 2.5 20% of total cover: 1 erb Stratum: (Plot size: 30 ft.) Arundharia tecta 5 Yes FACW Carex cherokeensis 3 Yes FACW Chesmanthium sessiliforum 3 Yes FAC Carex cherokeensis 3 Yes FAC Chesmanthium sessiliforum 3 Yes FAC Carex cherokeensis	·			E	= Total Cover			etation (Explain)
solve of balancover. 2.3 2.9% of balancover. 1 advantaging indicatives of right solid and related right solid and relation r			EON/ of total approx	25	= Total Cover	1	¹ Indicators of hydric soil and wotland h	udrology must
erb Stratum (Plot size: 30 ft. 5 Yes FACW Carex cherokeensis 3 Yes FACW Chasmanthium sessiliforum 3 Yes FAC Saping - 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). Saping - 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. More Observed 11 = Total Cover 2.2 Mone Observed			50 % OF LOCAL COVEL.	2.5	20% 01 10121 00001.		he present unless disturbed or problem	atic
Arudinai tecta 5 Yes FACW Carex cherokeensis 3 Yes FACW Chasmanthium sessiliforum 3 Yes FACW Chasmanthium sessiliforum 3 Yes FACW Chasmanthium sessiliforum 3 Yes FACW 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). Sapting - 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 20 ft (1 to 6 m) in height. Shrub - Woody plants, excluding woody vines, approximately 30 to 20 ft (1 to 6 m) in height. Mone Observed	erb Stratum (Pl	ot size:	30 ft.)					
Carex cherokeensis 3 Yes FACW Chasmanthium sessififorum 3 Yes FAC 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 1 ess than 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 20 ft (1 to 6 m) in height. 11 = Total Cover 50% of total cover: 5.5 20% of total cover: 2.2 Mone Observed	Arundinaria tecta			5	Yes	FACW	Definitions of Five Vegetation Strata:	
Chasmanthium sessiliforum 3 Yes FAC 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). Saping - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and less than 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Saping - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 20 ft (1 to 6 m) in height. Mone Observed 20% of total cover: 2.2 2.2 Mone Observed 2.2 Solv of total cover: 2.2 Free - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Woody vines, regardless of size, and woody plants, excluding woody vines, less than approximately 2 ft (1 m) in height. Mone Observed	Carex cherokeensis			3	Yes	FACW		
	Chasmanthium sessilifl	orum		3	Yes	FAC	Tree - Woody plants, excluding woody v	vines,
							approximately 20 ft (6m) or more in heigh	nt and 3 in.
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. Solve of total cover: 5.5 20% of total cover: 2.2 Mone Observed							(7.6 cm) or larger in diameter at breast h	eight (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. 50% of total cover: 5.5 20% of total cover: 2.2 Mone Observed								
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. 50% of total cover: 5.5 20% of total cover: 2.2 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. None Observed							Sapling - Woody plants, excluding wood	ly vines,
image: stratum (Plot size:							approximately 20 ft (6 m) or more in heig	ht and less
Image: Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Solve of total cover: 5.5 Solve of total cover: 2.2 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. None Observed							than 3 in. (7.6 cm) DBH.	
Image: stratum (Plot size:								
11 = Total Cover 50% of total cover: 5.5 20% of total cover: 2.2 were stratum (Plot size: 30 ft. None Observed							Shrub - Woody plants, excluding woody	vines,
50% of total cover: 5.5 20% of total cover: 2.2 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. = Total Cover 50% of total cover: 20% of total cover: 20% of total cover: 20% of total cover: Yes X				11	= Total Cover		approximately 3 to 20 ft (1 to 6 m) in heig	jht.
Voody Vine Stratum (Plot size:			50% of total cover:	5.5	20% of total cover:	2.2		
voody Vine Stratum (Plot size:							Herb - All herbaceous (non-woody) plan	is, including
None Observed plants, except woody vines, less than approximately 2 ft (1 m) in height. 2 ft (1 m) in height. Woody vine - All woody vines, regardless of height. Hydrophytic 50% of total cover: 20% of total cover: Vegetation Present? Yes X No	oody Vine Stratum	(Plot size:	<u>30 ft.</u>)				herbaceous vines, regardless of size, an	<u>d</u> woody
2π (1 m) in height. 2π (1 m) in height. Woody vine - All woody vines, regardless of height.	None Observed						plants, except woody vines, less than ap	proximately
							2 ft (1 m) in height.	
= Total Cover Hydrophytic Vegetation Present? Yes X No								
= Total Cover Hydrophytic 50% of total cover:20% of total cover:YesX No							woody vine - All woody vines, regardles	is of height.
= Total Cover Hydrophytic 50% of total cover: 20% of total cover: Vegetation Present? Yes X No	·							
50% of total cover: Vegetation Present? Yes X No					= Total Cover		Hydrophytic	
Present? Yes X No			50% of total cover:		20% of total cover:		Vegetation	
•								





Project/Site:	Bob Anthor	ny Parkway Relocation		County:	Rankin	Sampling	Date: July 13,	2023
Applicant/Owner:	Mi	ssissippi Department o	f Transportation	S	tate:	Mississippi Sample P	oint: DP2	20
Investigator(s):	Savannah R. Morales	s and E	Bettie Shoemaker	Section, Towns	hip, Range:	S	01, T6N, R2E	
Landform (hillslope, terrace,	etc.):	Depressio	n	Local relief (co	oncave, convex, none	e): Concave	Slope (%):	0-5
Subregion (LRR or MLRA):		LRR P, MLRA	134	Lat:	32.38919 L	Long: -90.05445	Datum:	NAD 83
Soil Map Unit Name:		Cascilla-Arka	butla association, fre	equently flooded		NWI Classification:	PFO1A	
Are climatic / hydrologic cond	altions on the site typic	al for this time of year	No signif	(Yes / No)	Yes Aro "Normal Circ	(If no, explain in Remark	s.) Voc V	No
Are Vegetation	NO Soil NO	or Hydrology	No natur	ally problematic?	Are Normar Circ	eeded explain any answe	s in Remarks)	NO
SUMMARY OF FIND	NGS - Attach s	ite map showing	a samplina po	int locations. t	ransects. impo	rtant features. etc.	s in Remarks.)	
Hydrophytic Vogotation Pro	cont?	Voc V	No No			··· · · · · · · · · · · · · · · · · ·		
Hydric Soil Present?	sent?	Yes X	No	- Is the Samp	led Area			
Wetland Hydrology Present	t?	Yes X	No	within a We	tland?	Yes X	No	
, , , , , , , , , , , , , , , , , , ,				-		· · · ·	· · · · · · · · · · · · · · · · · · ·	
Remarks: This point was determ	ined to be within a wet	land due to the presen	ce of all three wetlar	nd criteria.				
				la ontona.				
Wetland bydrology li	ndicatore							
	indicators.		、 、			Secondary Indicators (m	inimum of two required)	
Primary Indicators (mil	nimum of one is require	ed; check all that apply) Aquatic Equipa (F	212)		Surface Soli Cra	CKS (Bb)	
High Water Ta	(AT)		Aquatic Fauna (t Marl Deposits (B	(15) (I RR II)		Drainage Patterr	(B10)	
X Saturation (A3)		Hvdrogen Sulfide	e Odor (C1)		Moss Trim Lines	(B16)	
Water Marks (, B1)		Oxidized Rhizosi	pheres on Living Roo	ts(C3)	Drv-Season Wat	er Table (C2)	
Sediment Dep	osits (B2)		Presence of Red	luced Iron (C4)	()	X Crayfish Burrows	(C8)	
Drift Deposits	(B3)		Recent Iron Red	uction in Tilled Soils (C6)	Saturation Visible	e on Aerial Imagery (C9)	
Algal Mat or C	rust (B4)		Thin Muck Surfa	ce (C7)		X Geomorphic Pos	ition (D2)	
Iron Deposits ((B5)		Other (Explain in	Remarks)		Shallow Aquitard	(D3)	
Inundation Visi	ible on Aerial Imagery	(B7)				X FAC-Neutral Tes	t (D5)	
X Water-Stained	Leaves (B9)					X Sphagnum moss	(D8) (LRR T, U)	
Field Observations:								
Surface Water Present?	Yes	No <u>X</u>	Depth (inc	ches): N/A	Wetland Hydro	ology Present?	Yes X No	
Water Table Present?	Yes	No X	Depth (inc	ches): >16				
Saturation Present?	Yes X	No	Depth (inc	ches): 0				
Describe Recorded Da	ata (stream gauge, mo	nitoring well, aerial pho	otos, previous inspec	ctions), if available:				
Pomarke:								
Remarko.								
A positive indication of	f wetland hydrology wa	as observed (at least or	ne primary indicator)	ι.				
A positive indication of	f wetland hydrology wa	as observed (at least or	ne primary indicator)					
A positive indication of SOIL Profile Description:	f wetland hydrology wa	as observed (at least or	ne primary indicator)	confirm the absence	e of indicators.)			
A positive indication of SOIL Profile Description: Dente	f wetland hydrology wa (Describe to the dep Matrix	as observed (at least or th needed to docume	ne primary indicator) nt the indicator or Red	confirm the absence	e of indicators.)			
A positive indication of SOIL Profile Description: Depth (inches)	f wetland hydrology wa (Describe to the dep Matrix Color (moist)	th needed to docume	ne primary indicator) nt the indicator or Red noist)%	confirm the absence ox Features Type ¹	e of indicators.)	Texture	Remarks	
A positive indication of SOIL Profile Description: Depth (inches) 0 0-16 0 0	f wetland hydrology wa (Describe to the dep Matrix Color (moist) 10YR 6/1	th needed to docume % Color (n 85 10YR	ne primary indicator) nt the indicator or Red noist)% 5/615	confirm the absence ox Features 	e of indicators.)	Texture Silty Clay Loam	Remarks	
A positive indication of SOIL Profile Description: Depth (inches) 0-16 0	f wetland hydrology wa (Describe to the dep Matrix Color (moist) 10YR 6/1	th needed to docume <u>%</u> Color (n 85 10YR	ne primary indicator) nt the indicator or Red noist) % 5/6 15	confirm the absence ox Features C	e of indicators.) Loc ² M	Texture Silty Clay Loam	Remarks	
A positive indication of SOIL Profile Description: Depth (inches) 0-16 0-16 0-16 0-10 0-10 0-10 0-10 0-10	f wetland hydrology wa (Describe to the dep Matrix Color (moist) 10YR 6/1	th needed to docume % Color (n 85 10YR	ne primary indicator) nt the indicator or Red noist) % 5/6 15	confirm the absence ox Features C C	e of indicators.) Loc ² M	Texture Silty Clay Loam	Remarks	
A positive indication of SOIL Profile Description: Depth (inches) 0-16 0-16 0-16 0-10 0-10 0-10 0-10 0-10	f wetland hydrology wa (Describe to the dep Matrix Color (moist) 10YR 6/1	th needed to docume % Color (n 85 10YR	ne primary indicator) nt the indicator or Red noist) % 5/6 15	confirm the absence ox Features C C	e of indicators.) 	Texture Silty Clay Loam	Remarks	
A positive indication of SOIL Profile Description: Depth (inches) 0-16 0-16 0-16 0-16 0-16 0-16 0-16 0-16	f wetland hydrology wa (Describe to the dep Matrix Color (moist) 10YR 6/1	th needed to docume % Color (n 85 10YR	ne primary indicator) nt the indicator or Red noist) % 5/6 15	confirm the absence ox Features C C	e of indicators.)	Texture Silty Clay Loam	Remarks	
A positive indication of SOIL Profile Description: Depth (inches) 0-16 0-16 0-16 0-16 0-16 0-16 0-16 0-16	f wetland hydrology wa (Describe to the dep Matrix Color (moist) 10YR 6/1	th needed to docume % Color (n 85 10YR	ne primary indicator) nt the indicator or Red noist) % 5/6 15 5/6	confirm the absence ox Features C C 	e of indicators.) Loc ² M ² Location: PL=F		Remarks	
A positive indication of SOIL Profile Description: Depth (inches) 0-16 0-16 0-16 0-16 0-16 0-16 0-16 0-16	f wetland hydrology wa (Describe to the dep Matrix Color (moist) 10YR 6/1	th needed to docume % Color (n 85 10YR	ne primary indicator) nt the indicator or Red noist) % 5/6 15 5/6 15 Masked Sand Grains vise noted.) Polyvalue Below S	confirm the absence ox Features C C 	e of indicators.) <u>Loc²</u> <u>M</u> <u></u>	Texture Sitty Clay Loam Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (Remarks	
A positive indication of SOIL Profile Description: Depth (inches) 0 0-16 0-16 0 0-16 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	f wetland hydrology wa (Describe to the dep Matrix Color (moist) 10YR 6/1 ion, D=Depletion, RM= prs: (Applicable to al (A2)	th needed to docume	ne primary indicator) nt the indicator or Red noist) % 5/6 15 5/6 15 4/4 Masked Sand Grains vise noted.) Polyvalue Below S Thin Dark Surface	confirm the absence ox Features C C 	e of indicators.) <u>Loc²</u> <u>M</u> <u>2</u> Location: PL=F	Texture Sitty Clay Loam Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10)	Remarks	
A positive indication of SOIL Profile Description: Depth (inches) 0.0 -0.16	f wetland hydrology wa (Describe to the dep Matrix Color (moist) 10YR 6/1 ion, D=Depletion, RM= ors: (Applicable to al (A2))	th needed to docume	ne primary indicator) nt the indicator or Red noist) % 5/6 15 5/6 15 4/4 Masked Sand Grains vise noted.) Polyvalue Below S Thin Dark Surface Loamy Mucky Min	confirm the absence ox Features C C 	e of indicators.)		Remarks atic Hydric Soils ³ : .RR O) (LRR S) 18) (outside MLRA 150A,	B)
A positive indication of SOIL Profile Description: Depth (inches) 0.0 0-16 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	f wetland hydrology wa (Describe to the dep Matrix Color (moist) 10YR 6/1 ion, D=Depletion, RM= ors: (Applicable to al (A2)) le (A4)	th needed to docume	ne primary indicator) nt the indicator or Red noist) % 5/6 15 5/6 15 5/6	confirm the absence ox Features C C 	e of indicators.)	Texture Silty Clay Loam Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpli	Remarks atic Hydric Soils ³ : RR O) (LRR S) 18) (outside MLRA 150A, ain Soils (F19) (LRR P, S, 1	B)
A positive indication of SOIL Profile Description: Depth (inches) 0-16 0-16 0-16 0-16 0-16 0-16 0-16 0-16	f wetland hydrology wa (Describe to the dep Matrix Color (moist) 10YR 6/1	th needed to docume % Color (n 85 10YR	ne primary indicator) nt the indicator or Red noist) % 5/6 15 5/6 15 5/6 25 Masked Sand Grains vise noted.) Polyvalue Below S Thin Dark Surface Loamy Mucky Min Loamy Gleyed Ma Depleted Matrix (f	Confirm the absence ox Features C C 	e of indicators.)	Texture Silty Clay Loam Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpl Anomalous Bright	Remarks atic Hydric Soils ³ : .RR 0) (LRR S) 18) (outside MLRA 150A, ain Soils (F19) (LRR P, S, 1 Loamy Soils (F20)	B) T)
A positive indication of SOIL Profile Description: Depth (inches) 0-16 0-16 0-16 0-16 0-16 0-16 0-16 0-16	f wetland hydrology wa (Describe to the dep Matrix Color (moist) 10YR 6/1	th needed to docume % Color (n 85 10YR	ne primary indicator) nt the indicator or Red noist) % 5/6 15 5/6 15 5/6 25 Masked Sand Grains vise noted.) Polyvalue Below S Thin Dark Surface Loamy Mucky Min Loamy Gleyed Ma Depleted Matrix (f Redox Dark Surfa	confirm the absence ox Features C C 	e of indicators.) Loc ² M	Texture Silty Clay Loam Silty Clay Loam Core Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A9) (I 2 cm Muck (A9) Meduced Vertic (F Piedmont Floodpl Anomalous Bright (MLRA 153B)	Remarks atic Hydric Soils ³ : .RR O) (LRR S) 18) (outside MLRA 150A, in Soils (F19) (LRR P, S, 1 Loamy Soils (F20)	B) T)
A positive indication of SOIL Profile Description: Depth (inches) 0-16 0-16 0-16 0-16 0-16 0-16 0-16 0-16	f wetland hydrology wa (Describe to the dep Matrix Color (moist) 10YR 6/1 1	th needed to docume	ne primary indicator) nt the indicator or Red noist) % 5/6 15 5/6 15 5/6 Masked Sand Grains vise noted.) Polyvalue Below S Thin Dark Surface Loamy Mucky Min Loamy Gleyed Ma Chark Surface Redox Dark Surface Depleted Matrix (f Redox Dark Surface Depleted Dark	confirm the absence ox Features C C 	e of indicators.) Loc ² M	Texture Silty Clay Loam Silty Clay Loam Core Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpl Anomalous Bright (MLRA 153B) Red Parent Mater	Remarks atic Hydric Soils ³ : atic Hydric Soils ³ : atic Hydric Soils ³ : atic Hydric Soils (F19) (LRR S) 18) (outside MLRA 150A, ain Soils (F19) (LRR P, S, 1 Loamy Soils (F20) al (TF2)	B) T)
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EGETATION (Five Strata) - Use scientif	ic names of plants.							
	Absolute % cover	Dominant Species	Indicator Status	Dominance Test work	ksheet:			
Tree Stratum (Plot size: 30 ft.)			Number of Dominant S	pecies			
1. Quercus nigra	35	Yes	FAC	That Are OBL, FACW,	or FAC:		8	(A)
2. Celtis laevigata	15	Yes	FACW					
3. <u>Carpinus caroliniana</u>	5	No	FAC	Total Number of Domin	nant			
4. Ostrya virginiana	5	No	FACU	Species Across All Stra	ata:		8	(B)
5								
6				Percent of Dominant S	pecies			
	60 =	Total Cover		That Are OBL, FACW,	or FAC:	1(00%	(A/B)
50% of	total cover: <u>30</u>	20% of total cover:	12					
				Prevalence Index Wo	rksheet.			
Sapling Stratum (Plot size: 30 ft.)				noncet.			
1. Triadica sebifera	20	Yes	FAC	Total %	Cover of:		Multiply by:	
2				OBL species	0	x 1 =	0	
3.				FACW species	45	x 2 =	90	
4				FAC species	83	x 3 =	249	
5				FACU species	5	x 4 =	20	
6				UPL species	0	x 5 =	0	
	=	Total Cover		Column Totals:	133	(A)	359	(
50% of	total cover: <u>10</u>	20% of total cover:	4					
Shrub Stratum (Plot size: 30 ft.)			Prevalence	Index = B/A =		2.70	
1. Triadica sebifera	15	Yes	FAC					
2				Hydrophytic Vegetati	on Indicators:			
3				1 - Rapid Te	est for Hydrophytic	Vegetation		
4				X 2 - Dominar	nce Test is >50%			
4 5.				X 2 - Dominar X 3 - Prevaler	nce Test is >50% nce Index is $\leq 3.0^1$			
4 5 6.				X 2 - Dominar X 3 - Prevaler Problematic	nce Test is >50% nce Index is ≤ 3.0 ¹ ≿ Hydrophytic Vege	tation ¹ (Expl	ain)	
4 5 6	 	- Total Cover		X 2 - Dominar X 3 - Prevaler Problematic	nce Test is >50% nce Index is ≤ 3.0 ¹ ≿ Hydrophytic Vege	tation ¹ (Expl	ain)	
4 5 6 50% of		Total Cover	3	X 2 - Dominar X 3 - Prevaler Problematic	nce Test is >50% nce Index is < 3.0 ¹ : Hydrophytic Vege soil and wetland hy	tation ¹ (Expl drology must	ain) t	
4 5 6 50% of	= 	Total Cover 20% of total cover:	3	X 2 - Dominar X 3 - Prevaler Problematic	nce Test is >50% nce Index is ≤ 3.0 ¹ c Hydrophytic Vege soil and wetland hydrophytic vege urbed or problemat	tation ¹ (Expl drology must iic.	ain) t	
4	=	Total Cover 20% of total cover:	3	X 2 - Dominar X 3 - Prevaler Problematic	nce Test is >50% nce Index is ≤ 3.0 ¹ ≿ Hydrophytic Vege soil and wetland hydrophytic urbed or problemat	tation ¹ (Expl drology must tic.	ain) t	
4		Total Cover 20% of total cover: Yes	3 FACW	X 2 - Dominar X 3 - Prevaler Problematic ¹ Indicators of hydric s be present, unless dist	nce Test is >50% nce Index is ≤ 3.0 ¹ : Hydrophytic Vege soil and wetland hy urbed or problemat	tation ¹ (Expl drology must	ain) t	
4		Total Cover 20% of total cover: <u>Yes</u> Yes	3 FACW FACW	X 2 - Dominar X 3 - Prevaler Problematic ¹ Indicators of hydric s be present, unless dist	nce Test is >50% nce Index is ≤ 3.0 ¹ : Hydrophytic Vege soil and wetland hy urbed or problemat ngetation Strata:	tation ¹ (Expl drology musi iic.	ain) t	
4	total cover: 7.5	Total Cover 20% of total cover: <u>Yes</u> <u>Yes</u> No	3 FACW FACW FAC	X 2 - Dominar X 3 - Prevaler Problematic ¹ Indicators of hydric s be present, unless dist Definitions of Five Ve Tree - Woody plants, 4	nce Test is >50% nce Index is ≤ 3.0 ¹ : Hydrophytic Vege soil and wetland hy urbed or problemat regetation Strata: excluding woody vi	tation ¹ (Expl drology musi tic. nes,	ain) t	
4	total cover: 7.5) 10 10 5 5	Total Cover 20% of total cover: Yes Yes No No	3 FACW FACW FAC FACW	X 2 - Dominar X 3 - Prevaler Problematic ¹ Indicators of hydric s be present, unless dist Definitions of Five Ve Tree - Woody plants, 4 approximately 20 ft (6m	nce Test is >50% nce Index is ≤ 3.0 ¹ b Hydrophytic Vege soil and wetland hy- urbed or problemat egetation Strata: excluding woody vi n) or more in heighl	tation ¹ (Expl drology musi tic. nes,	ain) t	
4	total cover: 7.5) 	Total Cover 20% of total cover: 20% of total cover: Yes Yes No No No	3 FACW FACW FAC FACW FACW	X 2 - Dominar X 3 - Prevaler Problematic ¹ Indicators of hydric s be present, unless dist Definitions of Five Ve Tree - Woody plants, e approximately 20 ft (6m (7.6 cm) or larger in dia	nce Test is >50% nce Index is ≤ 3.0 ¹ b Hydrophytic Vege soil and wetland hydrophytic Vege urbed or problemat egetation Strata: excluding woody vi n) or more in height ameter at breast he	tation ¹ (Expl drology must tic. nes, t and 3 in. ight (DBH).	ain) t	
4	15 total cover: 7.5) 10 10 5 5 3	Total Cover 20% of total cover: 20% of total cover: Yes Yes No No No	3 FACW FACW FAC FACW FACW	X 2 - Dominar X 3 - Prevaler Problematic ¹ Indicators of hydric s be present, unless dist Definitions of Five Ve Tree - Woody plants, e approximately 20 ft (6m (7.6 cm) or larger in dia	nce Test is >50% nce Index is ≤ 3.0 ¹ b Hydrophytic Vege soil and wetland hydrophytic Vege urbed or problemat Agetation Strata: excluding woody vi n) or more in height ameter at breast he	tation ¹ (Expl drology musi iic. nes, : and 3 in. ight (DBH).	ain) t	
4	total cover: 7.5) 10 10 5 5 3	Total Cover 20% of total cover: Yes Yes No No No	3 FACW FACW FAC FACW FACW	X 2 - Dominar X 3 - Prevaler Problematic ¹ Indicators of hydric s be present, unless dist Definitions of Five Ve Tree - Woody plants, a approximately 20 ft (6n (7.6 cm) or larger in dia Sapling - Woody plant	nce Test is >50% nce Index is ≤ 3.0 ¹ ⇒ Hydrophytic Vege soil and wetland hydrophytic Vege index of problemation second the second seco	tation ¹ (Expl drology must ic. nes, t and 3 in. ight (DBH). v vines,	ain) t	
4	total cover: 7.5	Total Cover 20% of total cover: 20% of total cover: Yes No No No	3 FACW FACW FAC FACW FACW	X 2 - Dominar X 3 - Prevaler Problematic ¹ Indicators of hydric s be present, unless dist Definitions of Five Ve Tree - Woody plants, a approximately 20 ft (6r (7.6 cm) or larger in dia Sapling - Woody plant approximately 20 ft (6 r	nce Test is >50% nce Index is ≤ 3.0 ¹ thydrophytic Vege soil and wetland hy- urbed or problemation regetation Strata: excluding woody vi n) or more in heightan ameter at breast he is, excluding woody m) or more in heightan is excluding woody m) or more in heightan the strategy is a strategy is a strategy is a strategy is excluding woody m) or more in heightan the strategy is a str	tation ¹ (Expl drology must ic. nes, t and 3 in. ight (DBH). r vines, t and less	ain) t	
4	total cover: 7.5	Total Cover 20% of total cover: 20% of total cover: Yes No No No	3 FACW FACW FAC FACW FACW	X 2 - Dominar X 3 - Prevaler Problematic ¹ Indicators of hydric s be present, unless dist Definitions of Five Ve Tree - Woody plants, a approximately 20 ft (6n (7.6 cm) or larger in dia Sapling - Woody plant approximately 20 ft (6n than 3 in. (7.6 cm) DBH	nce Test is >50% nce Index is ≤ 3.0 ¹ thydrophytic Vege soil and wetland hy- urbed or problemati getation Strata: excluding woody vi n) or more in heightar ameter at breast he s, excluding woody m) or more in heightar 1.	tation ¹ (Expl drology must ic. nes, t and 3 in. ight (DBH). r vines, it and less	ain) t	
4		Total Cover 20% of total cover: 20% of total cover: Yes No No No	3 FACW FAC FAC FACW FACW	X 2 - Dominar X 3 - Prevaler Problematic ¹ Indicators of hydric s be present, unless dist Definitions of Five Ve Tree - Woody plants, a approximately 20 ft (6n (7.6 cm) or larger in dia Sapling - Woody plant approximately 20 ft (6 r than 3 in. (7.6 cm) DBH	nce Test is >50% nce Index is ≤ 3.0 ¹ thydrophytic Vege soil and wetland hy- urbed or problemati rgetation Strata: excluding woody vi n) or more in heightan ameter at breast he s, excluding woody m) or more in heightan t,	tation ¹ (Expl drology musi ic. t. and 3 in. ight (DBH). v vines, t and less	ain) t	
4.		Total Cover 20% of total cover: 20% of total cover: Yes No No No	3 FACW FAC FACW FACW FACW	X 2 - Dominar X 3 - Prevaler Problematic ¹ Indicators of hydric s be present, unless dist Definitions of Five Ve Tree - Woody plants, a approximately 20 ft (6m (7.6 cm) or larger in dia Sapling - Woody plant approximately 20 ft (6 r than 3 in. (7.6 cm) DBH Shrub - Woody plants,	nce Test is >50% nce Index is ≤ 3.0 ¹ a Hydrophytic Vege soil and wetland hy- urbed or problemat regetation Strata: excluding woody vi n) or more in heightar ameter at breast he is, excluding woody m) or more in heightar 4.	tation ¹ (Expl drology must ic. t and 3 in. ight (DBH). r vines, t and less rines,	ain) t	
4.		Total Cover 20% of total cover: Yes Yes No No No Cover Cover	3 FACW FAC FAC FACW FACW	X 2 - Dominar X 3 - Prevaler Problematic ¹ Indicators of hydric s be present, unless dist Definitions of Five Ve Tree - Woody plants, approximately 20 ft (6n (7.6 cm) or larger in dia Sapling - Woody plant approximately 20 ft (6 r than 3 in. (7.6 cm) DBH Shrub - Woody plants, approximately 3 to 20 ft	nce Test is >50% nce Index is ≤ 3.0 ¹ thydrophytic Vege soil and wetland hy- urbed or problemat regetation Strata: excluding woody vi n) or more in heighthydrog woody m) or more in heighthydrog woody m) or more in heighthydrog woody vi thydrog woody woody vi thydrog woody woody woody vi thydrog woody wo	tation ¹ (Expl drology musi ic. nes, t and 3 in. ight (DBH). r vines, t and less rines, t.	ain) t	
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A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC).





Project/Site:	Bob Antho	ony Parkway Relo	cation	Соц	unty:	Rankin	Sampling	Date:	July 13, 2023
Applicant/Owner:	N	lississippi Departi	ment of Transport	tation	State	. <u>Mi</u>	ssissippi Sample F	oint:	DP21
Investigator(s):	Savannah R. Morale	es and	Bettie Shoe	maker s	Section, Township,	Range:	:	501, T6N, R2E	
Landform (hillslope, terrace,	etc.):	B	ottom		Local relief (conca	ve, convex, none):	Concave	Slope (%):	0-5
Subregion (LRR or MLRA):		LRR P,	MLRA 134	niation fragment	Lat: <u>32.3</u>	8806 Loi	ng: -90.05285	Datum:	NAD 83
Are climatic / bydrologic con	ditions on the site typ	ical for this time o	f vear?	Nation, frequent		Yes	(if no, explain in Remark	(s)	FFUTA
Are Vegetation	No ,Soil N	or Hydrolo	ay No	significantly	disturbed?	Are "Normal Circu	mstances" present?	Yes	X No
Are Vegetation	No ,Soil N	or Hydrolo	ogy No	naturally pro	oblematic?	(If nee	eded, explain any answe	rs in Remarks.)	
SUMMARY OF FINE	DINGS - Attach	site map sho	wing sampl	ling point lo	ocations, tran	sects, import	ant features, etc.		
Hydrophytic Vegetation Pre	esent?	Yes X	No						
Hydric Soil Present?		Yes	No	х	Is the Sampled	Area			
Wetland Hydrology Presen	nt?	Yes	No	х	within a Wetlan	d?	Yes	No	x
Remarks:									
This point was determ	nined not to be within a	a wetland due to t	he lack of hydric s	soils and wetlan	d hydrology.				
HYDROLOGY									
Wetland hydrology I	ndicators:						Secondary Indicators (n	ninimum of two rec	quired)
Primary Indicators (mi	inimum of one is requi	ired; check all that	apply)			<u> </u>	Surface Soil Cra	icks (B6)	
Surface Water	r (A1)		Aquatic	Fauna (B13)			Sparsely Vegeta	ited Concave Sur	face (B8)
High Water Ta	able (A2)		Marl De	eposits (B15) (L on Sulfido Odor	RR U)	-	Drainage Patter	ns (B10)	
Water Marks (") (B1)			d Rhizospheres	on Living Roots(C	3)	Dry-Season Wa	ter Table (C2)	
Sediment Dep	oosits (B2)		Presen	ce of Reduced I	ron (C4)		Cravfish Burrow	s (C8)	
Drift Deposits	(B3)		Recent	Iron Reduction	in Tilled Soils (C6)		Saturation Visib	e on Aerial Image	ry (C9)
Algal Mat or C	crust (B4)		Thin Mu	uck Surface (C7)		X Geomorphic Pos	sition (D2)	
Iron Deposits	(B5)		Other (I	Explain in Rema	ırks)		Shallow Aquitare	d (D3)	
Inundation Vis	ible on Aerial Imagery	/ (B7)					FAC-Neutral Te	st (D5)	
Water-Stained	l Leaves (B9)						Sphagnum mos	s (D8) (LRR T, U)	
Field Observations:									
Surface Water Present?	Yes	No	<u>x</u> [Depth (inches):	N/A	Wetland Hydrolo	gy Present?	Yes	No <u></u>
Water Table Present?	Yes	No	<u>x</u> [Depth (inches):	>16				
Describe Recorded D	ites lata (stream dauge im		ial nhotos previo	Deptri (incries).	if available:				
	uta (Siream gaage, m	ionitoring well, der			in available.				
Remarks:									
No positive indication	of wetland hydrology	was observed.							
No positive indication	of wetland hydrology	was observed.							
No positive indication	of wetland hydrology	was observed.							
No positive indication SOIL Profile Description:	of wetland hydrology (Describe to the dep	was observed. pth needed to do	ocument the indi	icator or confir	m the absence of	indicators.)			
No positive indication SOIL Profile Description: Depth (inches)	of wetland hydrology (Describe to the dej Matrix	was observed.	ocument the indi	icator or confir Redox Fea	m the absence of tures	indicators.)	Taylura	Pe	amarke
No positive indication SOIL Profile Description: Depth (inches) 0-3	of wetland hydrology (Describe to the dep Matrix Color (moist) 10YR 3/4	was observed.	olor (moist)	icator or confir Redox Fea	m the absence of tures 	indicators.)	Texture Siit Laam	Re	emarks
No positive indication SOIL Profile Description: Depth (inches) 0-3 3-16	of wetland hydrology (Describe to the dep Matrix Color (moist) 10YR 3/4 10YR 5/4	was observed.	olor (moist) None 10YR 5/6	icator or confir Redox Fea % 1	m the absence of tures 	indicators.) Loc ² PL	Texture Silt Loam Sandy Loam	Re	emarks
No positive indication SOIL Profile Description: Depth (inches) 0-3 3-16	of wetland hydrology (Describe to the deg Matrix Color (moist) 10YR 3/4 10YR 5/4	was observed.	ocument the indi olor (moist) None 10YR 5/6	icator or confir Redox Fea 	m the absence of tures 	Loc ²	Texture Silt Loam Sandy Loam	Re	emarks
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No positive indication SOIL Profile Description: Depth	of wetland hydrology (Describe to the dej Matrix Color (moist) 10YR 3/4 10YR 5/4 ion, D=Depletion, RM	was observed.	ocument the indi olor (moist) None 10YR 5/6 	icator or confir Redox Fea 	m the absence of tures Type ¹ C C	indicators.) Loc ² PL ² Location: PL=Por	Texture Silt Loam Sandy Loam re Lining, M=Matrix.		emarks
No positive indication SOIL Profile Description: Depth (inches) 0-3 3-16 'Type: C=Concentrat Hydric Soils Indicato Histore(I (A1)	of wetland hydrology (Describe to the dep Matrix Color (moist) 10YR 3/4 10YR 5/4 ion, D=Depletion, RM pors: (Applicable to a	was observed.	ocument the indi olor (moist) None 10YR 5/6 MS=Masked Sat otherwise noted	icator or confir Redox Fea 	m the absence of tures Type ¹ C C C C C C C C C C C C C	indicators.) Loc ² PL ² Location: PL=Por	Texture Silt Loam Sandy Loam re Lining, M=Matrix. Indicators for Problem	Re	emarks
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No positive indication SOIL Profile Description: Depth 0-3 3-16 'Type: C=Concentrat Hydric Soils Indicato Histos (A1) Histos Elpedon Black Histic (A3	of wetland hydrology (Describe to the dep Matrix Color (moist) 10YR 3/4 10YR 5/4 	was observed.	In the indiana indi indiana indiana in	icator or confir Redox Fea 	m the absence of tures 	indicators.) Loc ² PL PL ² Location: PL=Por	Texture Silt Loam Sandy Loam e Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (1) 2 cm Muck (A10) Reduced Vertic (1)	Re atic Hydric Soils LRR O) (LRR S) E18) (outside ML	emarks
No positive indication SOIL Profile Description: Depth 0-3 3-16 'Type: C=Concentrat Hydric Soils Indicato Histos Ci (A1) Histos Ci (A1) Histos Ci (A2) Histos Ci (A2) Histos Ci (A3) Hist	of wetland hydrology (Describe to the dep Matrix Color (moist) 10YR 3/4 10YR 5/4 	was observed.	olor (moist) None 10YR 5/6 MS=Masked Sar otherwise noted Polyvalu Thin Dar Loamy M	icator or confir Redox Fea 	m the absence of tures 	Indicators.) Loc ² PL PL ² Location: PL=Por	Texture Silt Loam Sandy Loam e Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) Reduced Vertic (1 Piedmont Floodpl	Re atic Hydric Soils LRR O) (LRR S) F18) (outside ML ain Soils (F19) (L	emarks
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Dominance Test worksheet: Number of Dominant Species Total Are OBL, FACW, or FAC: 6 (A) Total Number of Dominant 8 (B) Percent of Dominant Species 8 (B) Prevalence Index Worksheet: 75% (A/B) OBL species 0 x 1 = 0 FACW species 11 x 2 = 22 FAC species 0 x 4 = 0 UPL species 0 x 4 = 0 UPL species 13 x 5 = 65 Column Totals: 67 (A) 216 Prevalence Index = B/A = 3.22 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index is $\leq 3.0^1$ Problematic Hydrophytic Vegetation 1 (Explain) 1 Indicators of hydric soil and wetland hydrology must
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That Are OBL, FACW, or FAC: 6 (A) Total Number of Dominant Species Across All Strata: 8 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 75% (A/B) Prevalence Index Worksheet: Total % Cover of: Multiply by: (A/B) OBL species 0 x 1 = 0 FACW species 11 x 2 = 22 FAC species 43 x 3 = 129 FACU species 0 x 4 = 0 UPL species 13 x 5 = 65 Column Totals: 67 (A) 216 Prevalence Index = B/A = 3.22 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index is $\leq 3.0^1$ Problematic Hydrophytic Vegetation 1 (Explain) 1 Indicators of hydric soil and wetland hydrology must
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Species Across All Strata: 8 (B) Percent of Dominant Species Total % Cover of: 75% (A/B) Prevalence Index Worksheet: Total % Cover of: Multiply by: 0 CBL species 0 x 1 = 0 FACW species 11 x 2 = 22 FAC species 0 x 4 = 0 UPL species 0 x 4 = 0 UPL species 13 x 5 = 65 Column Totals: 67 (A) 216 Prevalence Index = B/A = 3.22 1 Hydrophytic Vegetation Indicators: 1 - 3.22 Hydrophytic Vegetation Indicators: - - 3.22 Image: State of the st
Opened Solution Advises Advise
Percent of Dominant Species That Are OBL, FACW, or FAC: 75% (A/B Prevalence Index Worksheet:
Percent of Dominant Species That Are OBL, FACW, or FAC: 75% (A/B Prevalence Index Worksheet: Multiply by: 0 OBL species 0 x 1 = 0 FACW species 11 x 2 = 22 FAC species 43 x 3 = 129 FACU species 0 x 4 = 0 UPL species 13 x 5 = 65 Column Totals: 67 (A) 216 Prevalence Index = B/A = 3.22 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index is $\leq 3.0^1$ Problematic Hydrophytic Vegetation ¹ (Explain) ''Indicators of hydric soil and wetland hydrology must
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Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 11 x 2 = 22 FAC species 43 x 3 = 129 FAC species 0 x 4 = 0 UPL species 0 x 4 = 0 UPL species 13 x 5 = 65 Column Totals: 67 (A) 216 Prevalence Index = B/A = 3.22 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 3 - Prevalence Index is < 3.0 ¹ 1 - Problematic Hydrophytic Vegetation ¹ (Explain) 3 - Prevalence Index is < 3.0 ¹
Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 11 x 2 = 22 FAC species 43 x 3 = 129 FACU species 0 x 4 = 0 UPL species 13 x 5 = 65 Column Totals: 67 (A) 216 Prevalence Index = B/A = 3.22
OBL species 0 $x 1 =$ 0 FACW species 11 $x 2 =$ 22 FAC species 43 $x 3 =$ 129 FACU species 0 $x 4 =$ 0 UPL species 13 $x 5 =$ 65 Column Totals: 67 (A) 216 Prevalence Index = B/A = 3.22 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index is $\leq 3.0^1$ - Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must
FACW species 11 $x 2 =$ 22 FAC species 43 $x 3 =$ 129 FACU species 0 $x 4 =$ 0 UPL species 13 $x 5 =$ 65 Column Totals: 67 (A) 216 Prevalence Index = B/A = 3.22 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation \underline{X} 2 - Dominance Test is >50% 3 - Prevalence Index is $\leq 3.0^1$ Problematic Hydrophytic Vegetation ¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must
FAC species 43 x 3 = 129 FACU species 0 x 4 = 0 UPL species 13 x 5 = 65 Column Totals: 67 (A) 216 Prevalence Index = B/A = 3.22 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index is $\leq 3.0^1$ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must
FACU species 0 x 4 = 0 UPL species 13 x 5 = 65 Column Totals: 67 (A) 216 Prevalence Index = B/A = 3.22 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤ 3.01 Problematic Hydrophytic Vegetation 1 (Explain) ¹ Indicators of hydric soil and wetland hydrology must
UPL species 13 x 5 = 65 Column Totals: 67 (A) 216 Prevalence Index = B/A = 3.22 Hydrophytic Vegetation Indicators: 3.22 L Rapid Test for Hydrophytic Vegetation 3.22 Yervalence Index is >50% 3.1 Prevalence Index is < 3.0 ¹ Problematic Hydrophytic Vegetation ¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must
Column Totals: 67 (A) 216 Prevalence Index = B/A = 3.22 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 1 - Prevalence Index is ≤ 3.0 ¹ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must
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Prevalence Index = B/A = <u>3.22</u> Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 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
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X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤ 3.01 Problematic Hydrophytic Vegetation1 (Explain) ¹ Indicators of hydric soil and wetland hydrology must
3 - Prevalence Index is ≤ 3.0 ¹ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must
Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must
¹ Indicators of hydric soil and wetland hydrology must
¹ Indicators of hydric soil and wetland hydrology must
, , , ,
pe present, unless disturbed or problematic
Definitions of Five Vegetation Strate:
Deminions of Five Vegetation Strata.
I ree - 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
han 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
perbaceous vines regardless of size and woody
National woody vines less than approximately
f(1, m) in bright
2 it (i iii) iii neignt.
Woody vine - All woody vines, regardless of height.
Hydrophytic
Vegetation
Procent? Voc V No
THE A NO

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





Project/Site:	Bob Ar	nthony Parkw	ay Relocation		County:	Ra	nkin	Sampling [Date:	July 13, 2023
Applicant/Owner:		Mississippi	i Department of T	ransportation		State:	Mississi	opi Sample Pe	oint:	DP22
Investigator(s):	Savannah R. Mo	orales	and Bet	tie Shoemaker	Section, Towr	nship, Range:		S	01, T6N, R2E	
Landform (hillslope, terrad	ce, etc.):		Bottom/ Slough	า	Local relief (concave, conve	ex, none):	Concave	Slope (%):	0-5
Subregion (LRR or MLRA	.): 		LRR P, MLRA 1	34	Lat:	32.38834	Long:	-90.05219	Datum:	NAD 83
Soil Map Unit Name:				Water			NV	VI Classification:		PFO1A
Are climatic / hydrologic c	onditions on the site	typical for this	s time of year?	No oignifi	(Yes / No)	Yes	(if no,	explain in Remarks	s.) Voo	Y No
Are Vegetation	,30ii	<u>No</u> ,or		No natura	ally problematic?	Ale NO		explain any answer	s in Remarks)	
SUMMARY OF FIN	NDINGS - Attac	h site ma	ap showing	sampling po	int locations.	transects.	important	features, etc.	3 III Kemarka.j	
	Procont?	Voc	v	No		,				
Hydrophylic Vegetation Hydric Soil Present?	Fiesent?	Yes	x	No	Is the Sam	pled Area				
Wetland Hydrology Pres	ent?	Yes	x	No	within a W	etland?		Yes X	No	
, s,				-					· · · · ·	
Remarks: This point was dete	rmined to be within a	wetland due	to the presence	of all three wetlan	d criteria.					
Wetland bydrolog	v Indicators:									- n
Drimon Indiastore	minimum of one is re	guirod, chool	k all that apply)				Seco	ndary Indicators (m	inimum of two req	uired)
Primary Indicators	(minimum of one is re	equirea; cnec	k all that apply)	Aquatic Equipa (P	212)			Surrace Soll Crac	CKS (Bb) tod Concovo Surf	aco (P8)
X High Water	Table (A2)			Marl Deposits (B	15) (I RR U)		x	Drainage Pattern	ed Collcave Sulla	ace (Do)
Saturation (A3)			Hvdrogen Sulfide	e Odor (C1)			Moss Trim Lines	(B16)	
Water Mark	is (B1)			Oxidized Rhizosp	oheres on Living Ro	ots(C3)		Dry-Season Wate	er Table (C2)	
Sediment D	eposits (B2)			Presence of Red	uced Iron (C4)	. ,		Crayfish Burrows	s (C8)	
Drift Deposi	its (B3)			Recent Iron Redu	uction in Tilled Soils	(C6)		Saturation Visible	e on Aerial Imager	ry (C9)
X Algal Mat o	r Crust (B4)			Thin Muck Surfac	ce (C7)		х	Geomorphic Posi	ition (D2)	
Iron Deposi	ts (B5)			Other (Explain in	Remarks)			Shallow Aquitard	(D3)	
Inundation	/isible on Aerial Imag	jery (B7)					X	FAC-Neutral Tes	t (D5)	
X Water-Stair	ed Leaves (B9)							Sphagnum moss	(D8) (LRR T, U)	
Field Observations:										
Surface Water Present?	Yes	X N	lo	Depth (inc	hes): 6	Wetland	d Hydrology Pr	esent?	Yes X	No
Water Table Present?	Yes	<u>x</u> N	10	Depth (inc	hes): 9					
Saturation Present?	Yes	N	<u>lo X</u>	Depth (inc	hes): >16					
Describe Recorded	I Data (stream gauge	, monitoring v	well, aerial photo	s, previous inspec	tions), if available:					
Remarks:										
				(محفج مالح من بالمحمد الم						
A positive indication	n of wetland hydrolog	y was observ	ved (at least one	primary indicator).						
A positive indication	n of wetland hydrolog	y was observ	ved (at least one	primary indicator).						
A positive indication SOIL Profile Description	n of wetland hydrolog	y was observ depth neede	ved (at least one	primary indicator).	confirm the absen	ce of indicato	rs.)			
A positive indication SOIL Profile Description Depth	n or wetland hydrolog n: (Describe to the Matrix	y was observ depth neede	ved (at least one ed to document	primary indicator). the indicator or Redo	confirm the absen	ce of indicato	rs.)			
A positive indication SOIL Profile Description Depth (inches)	n: (Describe to the Matrix Color (moist)	y was observ depth neede	ed (at least one ed to document Color (moi	primary indicator). the indicator or Redo st)%	confirm the absen ox Features Type ¹	ce of indicato	rs.)	Texture	Re	marks
A positive indication SOIL Profile Description Depth (inches) 0-8	n: (Describe to the Matrix Color (moist) 10YR 4/2	depth neede	ed to document Color (moi 10YR 6/*	the indicator or or Redo st) % 1 5	confirm the absen ox Features Type ¹ D	ce of indicato	rs.)	Texture	Re	marks
A positive indication SOIL Profile Description Depth (inches) 0-8	n: (Describe to the Matrix Color (moist) 10YR 4/2	depth neede	ed to document Color (moi 10YR 6/- 7.5YR 4/	primary indicator) the indicator or or Redo st) % 1 5 0 10	confirm the absen ox Features D 	ce of indicato	rs.)	Texture	Re	marks
A positive indication SOIL Profile Description Depth (inches) 0-8 8-16	n: (Describe to the Matrix Color (moist) 10YR 4/2 10YR 6/1	depth neede	ed to document Color (moi 10YR 6/ 7.5YR 4/ 10YR 6/	primary indicator) the indicator or Redo st) % 1 5 6 10 3 30	confirm the absen ox Features Type ¹ D C C	ce of indicato	rs.) 	Texture ility Clay Sand	Re Splotchy iron pat	marks
A positive indication SOIL Profile Description Depth (inches) 0-8 8-16	n: (Describe to the Matrix Color (moist) 10YR 4/2 10YR 6/1	depth neede	ed to document Color (moi 10YR 6/ 7.5YR 4/ 10YR 6/	primary indicator) the indicator or end Rede 5 6 10 3 30	confirm the absen px Features Type ¹ D C C	ce of indicato	rs.)	Texture ilty Clay Sand	Re 	marks
A positive indication SOIL Profile Description Depth (inches) 0-8 8-16 'Type: C=Concent	n: (Describe to the Matrix Color (moist) 10YR 4/2 10YR 6/1	depth neede	ed to document Color (moi 10YR 6/- 7.5YR 4/- 10YR 6/- 0YR 6/- 0YR 6/- 10YR 6/- 10YR 6/- 10YR 6/-	primary indicator) the indicator or rest Redd st) % 1 5 6 10 3 30	confirm the absen px Features Type ¹ D C C 	ce of indicato	rs.)	Texture ilty Clay Sand	Re Splotchy iron pat	marks
A positive indication SOIL Profile Description Depth (inches) 0-8 8-16 8-16 'Type: C=Concent Hydric Soils Indic	n: (Describe to the Matrix Color (moist) 10YR 4/2 10YR 6/1 ration, D=Depletion, ators: (Applicable 1	depth neede	ed to document Color (moi 10YR 6/- 7.5YR 4/- 10YR 6/c d Matrix, MS=Ma unless otherwis	primary indicator) the indicator or rest Redd st) % 1 5 6 10 3 30	confirm the absen px Features Type ¹ D C C	ce of indicato Loc ² M M M 2Location	rs.) S S S 	Texture ilty Clay Sand ng, M=Matrix. ators for Problem:	Re Splotchy iron pat	marks
A positive indication SOIL Profile Description Depth (inches) 0-8 8-16 8-16 'Type: C=Concent Hydric Soils Indic Histosol (A1)	n: (Describe to the Matrix Color (moist) 10YR 4/2 10YR 6/1 ration, D=Depletion, ators: (Applicable to	depth neede	ed to document Color (moi 10YR 6/- 7.5YR 4/- 10YR 6/c 4	the indicator or Redd st) % 1 5 6 10 5 30 sked Sand Grains se noted.) Polyvalue Below S	confirm the absen x Features D C C C Surface (S8) (LRR S	ce of indicato Loc ² M M M 2Location C, T, U)	rs.)	Texture ilty Clay Sand ng, M=Matrix. ators for Problem: 1 cm Muck (A9) (L	Re Splotchy iron pat	marks
A positive indication SOIL Profile Description Depth (inches) 0-8 8-16 8-16 'Type: C=Concent Hydric Soils Indic Histosol (A1) Histic Epiped	n: (Describe to the Matrix Color (moist) 10YR 4/2 10YR 6/1 ration, D=Depletion, ators: (Applicable to lon (A2)	depth neede	ed to document Color (moi 10YR 6/- 7.5YR 4/- 10YR 6/- 10YR 6/- d Matrix, MS=Ma unless otherwis	the indicator or r Redd st) % 1 5 6 10 3 30 sked Sand Grains se noted.) Polyvalue Below S Thin Dark Surface	confirm the absen px Features D C C C Surface (S8) (LRR S (S9) (LRR S, T, U)	ce of indicato	rs.)	Texture ility Clay Sand ng, M=Matrix. ators for Problem. 1 cm Muck (A9) (L 2 cm Muck (A10) (Re Splotchy iron pat dtic Hydric Soils .RR O) (LRR S)	marks
A positive indication SOIL Profile Description Depth (inches) 0-8 8-16 8-16 ' Type: C=Concent Hydric Soils Indic Histosol (A1) Histic Epiped Black Histic (n: (Describe to the Matrix Color (moist) 10YR 4/2 10YR 6/1 ration, D=Depletion, ators: (Applicable to lon (A2) A3)	depth neede	ed to document Color (moi 10YR 6/- 7.5YR 4/- 10YR 6/- 10YR 6/- d Matrix, MS=Ma unless otherwis	the indicator or restance of the indicator or	confirm the absen ox Features D C C C Surface (S8) (LRR S (S9) (LRR S, T, U) eral (F1) (LRR O)	ce of indicato Loc ² M M M 2Location 3, T, U)	rs.) S S n: PL=Pore Lini Indic 	Texture ility Clay Sand ng, M=Matrix. ators for Problem: 1 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F	Re Splotchy iron pat atic Hydric Soils .RR O) (LRR S) 18) (outside MLF	marks
A positive indication SOIL Profile Description Depth (inches) 0-8 8-16 8-16 ' Type: C=Concent Hydric Soils Indic Histoc (A1) Histic Epiped Black Histic (Hydrogen Su	n: (Describe to the Matrix Color (moist) 10YR 4/2 10YR 6/1 ration, D=Depletion, ators: (Applicable to lon (A2) A3)	depth neede	ed to document Color (moi 10YR 6/- 7.5YR 4/- 10YR 6/- 10YR 6/- d Matrix, MS=Ma unless otherwis	the indicator or restance of the indicator of th	confirm the absen ox Features D C C C Surface (S8) (LRR S (S9) (LRR S, T, U) eral (F1) (LRR O) trix (F2)	ce of indicato	rs.) S S n: PL=Pore Lini Indic 	Texture ilty Clay Sand ators for Problema 1 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F Piedmont Floodpla	Re Splotchy iron pat atic Hydric Soils .RR O) (LRR S) 18) (outside MLF ain Soils (F19) (LF	marks
A positive indication SOIL Profile Description Depth (inches) 0-8 8-16 8-16 ' Type: C=Concent Hydric Soils Indic Histic Spiped Black Histic (Histic Epiped Stratified Lay	n: (Describe to the Matrix Color (moist) 10YR 4/2 10YR 6/1 ration, D=Depletion, ators: (Applicable for (Applicable for (A) lifide (A4) rers (A5)	depth neede	ed to document Color (moi 10YR 6/- 7.5YR 4/- 10YR 6/- 10	the indicator or restance of the indicator of th	confirm the absen ox Features D C C C Surface (S8) (LRR S (S9) (LRR S, T, U) eral (F1) (LRR O) trix (F2) (3)	ce of indicato	rs.)	Texture ilty Clay Sand Sand 1 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F Piedmont Floodpla Anomalous Bright	Re Splotchy iron pat atic Hydric Soils .RR O) (LRR S) (18) (outside MLF ain Soils (F19) (LF Loamy Soils (F20	marks terns 3: RA 150A,B) RR P, S, T)
A positive indication SOIL Profile Description Depth (inches) 0-8 8-16 ¹ Type: C=Concent Hydric Soils Indic Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay Organic Bodi	n: (Describe to the Matrix Color (moist) 10YR 4/2 10YR 6/1 ration, D=Depletion, ators: (Applicable for (Applicable for (A) lifide (A4) rers (A5) les (A6) (LRR P, T, L	depth neede	ed to document Color (moi 10YR 6/- 7.5YR 4/- 10YR 6/- 10	the indicator or restance of the indicator of th	confirm the absen ox Features D C C C Surface (S8) (LRR S (S9) (LRR S, T, U) eral (F1) (LRR O) trix (F2) (S9) ce (F6)	ce of indicato	rs.)	Texture ilty Clay Sand Sand ators for Problema 1 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B)	Re Splotchy iron patt atic Hydric Soils .RR O) (LRR S) 18) (outside MLF ain Soils (F19) (LF Loamy Soils (F20	marks terns 3: RA 150A,B) RR P, S, T)
A positive indication SOIL Profile Description Depth (inches) 0-8 8-16 ***********************************	n: (Describe to the Matrix Color (moist) 10YR 4/2 10YR 6/1 10YR 6/1 ration, D=Depletion, ators: (Applicable to lon (A2) A3) Ifide (A4) rers (A5) ies (A6) (LRR P, T, L Mineral (A7) (LRR P,	y was observ depth neede <u>%</u> <u>85</u> <u>70</u> <u>70</u> <u>RM=Reduced</u> to all LRRs, f	ed to document Color (moi 10YR 6/- 7.5YR 4/- 10YR 6/- 10	primary indicator) the indicator or (Redd st) % 1 5 6 10 5 30 5 30 5 30 5 30 5 40 5	Confirm the absen ox Features D C C C C Surface (S8) (LRR S (S9) (LRR S, T, U) real (F1) (LRR O) trix (F2) (S9) trix (F2) (S9) face (F6) face (F7)	ce of indicato	rs.)	Texture ilty Clay Sand Sand ators for Problema 1 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Materi	Re Splotchy iron pat atic Hydric Soils .RR O) (LRR S) 18) (outside MLF ain Soils (F19) (LF Loamy Soils (F20 ial (TF2)	marks terns 3: RA 150A,B) RR P, S, T)
A positive indication SOIL Profile Description Depth (inches) 0-8 8-16 ¹ Type: C=Concent Hydric Soils Indic Histic Epiped Black Histic (Hydrogen Su Stratified Lay Organic Bodi 5 cm Mucky Muck Presen	n: (Describe to the <u>Matrix</u> <u>Color (moist)</u> <u>10YR 4/2</u> <u>10YR 6/1</u> <u>10YR 6/1</u>	y was observ depth neede <u>%</u> <u>85</u> <u>70</u> <u>70</u> <u>70</u> <u>85</u> <u>85</u> <u>70</u> <u>85</u> <u>85</u> <u>85</u> <u>85</u> <u>70</u> <u>85</u> <u>85</u> <u>70</u> <u>70</u> <u>85</u> <u>70</u> <u>70</u> <u>85</u> <u>70</u> <u>70</u> <u>85</u> <u>70</u> <u>85</u> <u>70</u> <u>70</u> <u>85</u> <u>70</u> <u>70</u> <u>85</u> <u>70</u> <u>70</u> <u>70</u> <u>85</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>85</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u>	ed to document Color (moi 10YR 6/- 7.5YR 4/- 10YR 6/- 10	the indicator or restance of the indicator of th	Confirm the absen xx Features	ce of indicato	rs.)	Texture ilty Clay Sand Sand ators for Problema 1 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F Piedmont Floodple Anomalous Bright (MLRA 153B) Red Parent Materi Very Shallow Dark	Re Splotchy iron patt atic Hydric Soils .RR O) (LRR S) 18) (outside MLF ain Soils (F19) (LF Loamy Soils (F20 ial (TF2) s Surface (TF12)	marks terns 3: RA 150A,B) RR P, S, T)
A positive indication SOIL Profile Description Depth (inches) 0-8 8-16 ¹ Type: C=Concent Hydric Soils Indic Histic Epiped Black Histic (Hydrogen Su Stratified Lay Organic Bod 5 cm Mucky Muck Preser 1 cm Muck (/	n: (Describe to the <u>Matrix</u> <u>Color (moist)</u> <u>10YR 4/2</u> <u>10YR 6/1</u> <u>10YR </u>	y was observ depth neede <u>%</u> <u>85</u> <u>70</u> <u>70</u> <u>70</u> <u>85</u> <u>85</u> <u>70</u> <u>85</u> <u>85</u> <u>85</u> <u>85</u> <u>70</u> <u>70</u> <u>85</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u>	ed to document Color (moi 10YR 6/- 7.5YR 4/- 10YR 6/- 10	the indicator or Redd st) % 1 5 6 10 5 30 5 40 5 40	confirm the absen xx Features	ce of indicato	rs.)	Texture ilty Clay Sand Sand ators for Problema 1 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F Piedmont Floodple Anomalous Bright (MLRA 153B) Red Parent Materi Very Shallow Dark Other (Explain in F	Re Splotchy iron patt atic Hydric Soils .RR O) (LRR S) 18) (outside MLF ain Soils (F19) (LF Loamy Soils (F20 ial (TF2) s Surface (TF12) Remarks)	marks terns 3: RA 150A,B) RR P, S, T)
A positive indication SOIL Profile Description Depth (inches) 0-8 8-16 ¹ Type: C=Concent Hydric Soils Indic Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay Organic Bod 5 cm Mucky Muck Preser 1 cm Muck (/ Depleted Bel	n: (Describe to the <u>Matrix</u> <u>Color (moist)</u> <u>10YR 4/2</u> <u>10YR 6/1</u> <u>10YR </u>	y was observ depth neede <u>%</u> <u>85</u> <u>70</u> <u>70</u> <u>70</u> <u>85</u> <u>85</u> <u>70</u> <u>85</u> <u>85</u> <u>85</u> <u>85</u> <u>70</u> <u>70</u> <u>85</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u>	ed to document Color (moi 10YR 6/- 7.5YR 4/- 10YR 6/- 10	the indicator or Redd st) % 1 5 6 10 5 30 5 30 5 30 5 40 5	Confirm the absen ox Features Type ¹ D C C C Surface (S8) (LRR S (S9) (LRR S, T, U) eral (F1) (LRR O) trix (F2) (S9) trix (F2) (S9) face (F6) face (F7) is (F8)) (MLRA 151) (MLRA 151)	ce of indicato	rs.)	Texture ilty Clay Sand Sand ators for Problema 1 cm Muck (A9) (L 2 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F Piedmont Floodple Anomalous Bright (MLRA 153B) Red Parent Materi Very Shallow Dark Other (Explain in F ³ Indicators of b	Re Splotchy iron patt atic Hydric Soils .RR O) (LRR S) 18) (outside MLF ain Soils (F19) (LF Loamy Soils (F20 ial (TF2) s Surface (TF12) Remarks)	marks terns 3: RA 150A,B) RR P, S, T)))
A positive indication SOIL Profile Description Depth (inches) 0-8 8-16 1 Type: C=Concent Hydric Soils Indic Histosol (A1) Histoc Epiped Black Histic (Hydrogen Su Stratified Lay Organic Bod 5 cm Mucky Muck Preser 1 cm Muck (/ Depleted Bel Thick Dark S	n: (Describe to the Matrix Color (moist) 10YR 4/2 10YR 6/1 10YR 6/	y was observ depth neede <u>%</u> <u>85</u> <u>70</u> <u>70</u> <u>85</u> <u>70</u> <u>85</u> <u>70</u> <u>70</u> <u>85</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u>	ed to document Color (moi 10YR 6/- 7.5YR 4/- 10YR 6/- 10	primary indicator) the indicator or (Redd st) % 1 5 6 10 5 30 5 40 5 30 5 40 5	Confirm the absen ox Features Type ¹ D C C C C C C C C C C C C C	ce of indicato	rs.)	Texture ilty Clay Sand Sand 1 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Materi Very Shallow Dark Other (Explain in F ³ Indicators of h hydrology must	Re Splotchy iron patt atic Hydric Soils .RR O) (LRR S) 18) (outside MLF ain Soils (F19) (LF Loamy Soils (F20 ial (TF2) s Surface (TF12) Remarks) ydrophytic vegeta be present, unles	marks terns 3: RA 150A,B) RR P, S, T))) tion and wetland is disturbed or
A positive indication SOIL Profile Description Depth (inches) 0-8 8-16 1 Type: C=Concent Hydric Soils Indic Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay Organic Bodi 5 cm Mucky I Muck Preser 1 cm Muck (/ Depleted Bel Thick Dark S Coast Prairie Sandy Muck	n: (Describe to the <u>Matrix</u> <u>Color (moist)</u> <u>10YR 4/2</u> <u>10YR 6/1</u> <u>10YR </u>	y was observ depth neede <u>%</u> <u>85</u> <u>70</u> <u>70</u> <u>85</u> <u>70</u> <u>85</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u>	ved (at least one ed to document Color (moi 10YR 6/- 7.5YR 4/- 10YR 6/6 	the indicator or r Redd st) % 1 5 6 10 6 30 5 30 5 30 5 30 5 30 5 40 5 5 6 10 6 30 5 30 5 5 6 30 5 7 8 6 0 40 5 7 8 6 0 40 8 7 8 6 0 40 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	Confirm the absen ox Features Type ¹ D C C C C C C C C C C C C C	ce of indicato	rs.)	Texture ilty Clay Sand Sand 1 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Materi Very Shallow Dark Other (Explain in F ³ Indicators of h hydrology must problematic.	Re Splotchy iron pat atic Hydric Soils RR O) (LRR S) 18) (outside MLF ain Soils (F19) (LF Loamy Soils (F20 ial (TF2) s Surface (TF12) Remarks) ydrophytic vegeta be present, unles	marks terns 3: RA 150A,B) RR P, S, T))) tion and wetland ss disturbed or
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A positive indication SOIL Profile Description Depth (inches) 0-8 8-16 1 Type: C=Concent Hydric Soils Indic Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay Organic Bodi 5 cm Mucky 1 Muck Preser 1 cm Muck (/ Depleted Bel Thick Dark S Coast Prairie Sandy Mucky Sandy Gleye Sandy Redo:	n: (Describe to the <u>Matrix</u> <u>Color (moist)</u> <u>10YR 4/2</u> <u>10YR 6/1</u> <u>10YR </u>	y was observ depth neede <u>%</u> <u>85</u> <u>70</u> <u>70</u> <u>85</u> <u>70</u> <u>85</u> <u>70</u> <u>70</u> <u>85</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u>	ed to document Color (moi 10YR 6/- 7.5YR 4/- 10YR 6/- 10	primary indicator). the indicator or Redd st) % 1 5 6 10 6 10 6 30 6 30 6 30 6 30 7 8 sked Sand Grains se noted.) Polyvalue Below S Thin Dark Surface Loamy Mucky Min Loamy Gleyed Ma Depleted Matrix (F Redox Dark Surfac Depleted Dark Surfac Depleted Dark Surface Loamy Gleyed Ma Depleted Dark Surface Loamy Gleyed Ma Depleted Dark Surface Depleted Ochric (F17) Reduced Vertic (F17) Reduced Ve	Confirm the absen ox Features Type ¹ D C C C C C C C C C C C C C	ce of indicato	rs.)	Texture ilty Clay Sand Sand ators for Problema 1 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Materi Very Shallow Dark Other (Explain in F ³ Indicators of hy hydrology must problematic.	Re Splotchy iron pat atic Hydric Soils .RR O) (LRR S) 18) (outside MLF ain Soils (F19) (LF Loamy Soils (F20 ial (TF2) s Surface (TF12) Remarks) ydrophytic vegeta be present, unles	marks terns 3: RA 150A,B) RR P, S, T))) tion and wetland is disturbed or
A positive indication SOIL Profile Description Depth	n: (Describe to the <u>Matrix</u> <u>Color (moist)</u> <u>10YR 4/2</u> <u>10YR 6/1</u> <u>10YR </u>	y was observ depth neede <u>%</u> <u>85</u> <u>70</u> <u>70</u> <u>85</u> <u>70</u> <u>85</u> <u>70</u> <u>85</u> <u>85</u> <u>70</u> <u>70</u> <u>85</u> <u>70</u> <u>70</u> <u>70</u> <u>71</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u>	ved (at least one ed to document Color (moi 10YR 6/- 7.5YR 4/- 10YR 6/- 10YR 6/- 0 0 0 0 0 0 0 0 0 0 0 0 0	primary indicator). the indicator or r Redd st) 6 1 5 6 1 0 5 1 0 5 1 1 0 5 1 1 1 1	Confirm the absen 2X Features Type ¹ D C C C C C C C C C C C C C	ce of indicato	rs.)	Texture ilty Clay Sand Sand ators for Problema 1 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Materi Very Shallow Dark Other (Explain in F ³ Indicators of hy hydrology must problematic.	Re Splotchy iron pat atic Hydric Soils .RR O) (LRR S) 18) (outside MLF ain Soils (F19) (LF Loamy Soils (F20 ial (TF2) s Surface (TF12) Remarks) ydrophytic vegeta be present, unles	marks terns 3: RA 150A,B) RR P, S, T))) tion and wetland is disturbed or
A positive indication SOIL Profile Description Depth (inches) 0-8 8-16 1 Type: C=Concent Hydric Soils Indic Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay Organic Bodi 5 cm Mucky I Muck Preser 1 cm Muck (/ Depleted Bel Thick Dark Si Coast Prairie Sandy Mucky Sandy Gleye Sandy Redoo Stripped Mat Dark Surface	n: (Describe to the <u>Matrix</u> <u>Color (moist)</u> <u>10YR 4/2</u> <u>10YR 6/1</u> <u>10YR </u>	y was observ depth neede <u>%</u> <u>85</u> <u>70</u> <u>70</u> <u>85</u> <u>70</u> <u>85</u> <u>70</u> <u>85</u> <u>85</u> <u>70</u> <u>70</u> <u>85</u> <u>70</u> <u>70</u> <u>70</u> <u>71</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u>	ved (at least one ed to document Color (moi 10YR 6/- 7.5YR 4/- 10YR 6/6 	primary indicator). the indicator or r Redd st) % 1 5 6 10 6 10 6 30 6 30 6 30 6 30 6 30 7 80 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Confirm the absen 2X Features Type ¹ D C C C C C C C C C C C C C	ce of indicato <u>Loc²</u> <u>M</u> <u>M</u> <u>2</u> Location ² Locat	rs.)	Texture ilty Clay Sand Sand ators for Problema 1 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Materi Very Shallow Dark Other (Explain in F ³ Indicators of hy hydrology must problematic.	Re Splotchy iron pat atic Hydric Soils .RR O) (LRR S) 18) (outside MLF ain Soils (F19) (LF Loamy Soils (F20 ial (TF2) : Surface (TF12) Remarks) ydrophytic vegeta be present, unles	marks terns 3: RA 150A,B) RR P, S, T))) tion and wetland is disturbed or
A positive indication SOIL Profile Description Depth (inches) 0-8 8-16 ¹ Type: C=Concent Hydric Soils Indic Histosol (A1) Histoc Epiped Black Histic (Hydrogen Su Stratified Lay Organic Bodi 5 cm Mucky Preser 1 cm Muck (# Depleted Bel Thick Dark S Coast Prairie Sandy Mucky Sandy Gleye Sandy Redoo Stripped Mat Dark Surface Restrictive Laver	n: (Describe to the <u>Matrix</u> <u>Color (moist)</u> <u>10YR 4/2</u> <u>10YR 6/1</u> <u>10YR </u>	y was observ depth neede <u>%</u> <u>85</u> <u>70</u> <u>70</u> <u>85</u> <u>70</u> <u>70</u> <u>85</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u>	ed to document Color (moi 10YR 6/- 7.5YR 4/- 10YR 6/	primary indicator). the indicator or r Redd st) % 1 5 6 10 6 10 6 30 6 30 6 30 6 30 7 8 ked Sand Grains 5 e noted.) Polyvalue Below S Thin Dark Surface Loamy Mucky Min Loamy Gleyed Ma Depleted Matrix (F Redox Dark Surfac Depleted Ochric (F17) Reduced Vertic (F Piedmont Floodpla Anomalous Bright	Confirm the absen 2X Features Type ¹ D C C C C C C C C C C C C C	ce of indicato <u>Loc²</u> <u>M</u> <u>M</u> <u>2</u> Location ² Location ² Location ² Cocation ² Location ² Locat	rs.)	Texture ilty Clay Sand Sand ators for Problema 1 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Materi Very Shallow Dark Other (Explain in F ³ Indicators of hy hydrology must problematic.	Re Splotchy iron pat atic Hydric Soils .RR O) (LRR S) 18) (outside MLF ain Soils (F19) (LF Loamy Soils (F20 ial (TF2) : Surface (TF12) Remarks) ydrophytic vegeta be present, unles	marks terns 3: RA 150A,B) RR P, S, T))) tion and wetland is disturbed or
A positive indication SOIL Profile Description Depth	n: (Describe to the Matrix Color (moist) 10YR 4/2 10YR 6/1 10YR 6/	y was observ depth neede <u>%</u> <u>85</u> <u>70</u> <u>70</u> <u>85</u> <u>70</u> <u>85</u> <u>70</u> <u>85</u> <u>70</u> <u>70</u> <u>70</u> <u>85</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u>	ved (at least one ed to document Color (moi 10YR 6/- 7.5YR 4/- 10YR 6/6 	primary indicator). the indicator or Redd st) % 1 5 6 10 6 10 6 30 6 30 6 30 6 30 7 8 ked Sand Grains is noted.) Polyvalue Below S Thin Dark Surface Loamy Mucky Min Loamy Gleyed Ma Depleted Matrix (F Redox Dark Surfac Depleted Ochric (F17) Reduced Vertic (F Piedmont Floodpla Anomalous Bright	Confirm the absen 2X Features Type ¹ D C C C C C C C C C C C C C	ce of indicato <u>Loc²</u> <u>M</u> <u>M</u> <u>2</u> Location ² Locat	rs.)	Texture ilty Clay Sand Sand ators for Problema 1 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Materi Very Shallow Dark Other (Explain in F ³ Indicators of hy hydrology must problematic.	Re Splotchy iron pat atic Hydric Soils .RR O) (LRR S) 18) (outside MLF ain Soils (F19) (LF Loamy Soils (F20 ial (TF2) s Surface (TF12) Remarks) ydrophytic vegeta be present, unles	marks terns 3: RA 150A,B) RR P, S, T))) tion and wetland is disturbed or
A positive indication SOIL Profile Description Depth (inches) 0-8 8-16 'Type: C=Concent Hydric Soils Indic Histosol (A1) Histoc Epiped Black Histic (Hydrogen Su Stratified Lay Organic Bodi Dark Surface Restrictive Layer Type: Depth (inch	n: (Describe to the <u>Matrix</u> <u>Color (moist)</u> <u>10YR 4/2</u> <u>10YR 6/1</u> <u>10YR </u>	y was observ depth neede <u>%</u> <u>85</u> <u>70</u> <u>70</u> <u>85</u> <u>70</u> <u>85</u> <u>70</u> <u>70</u> <u>85</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u> <u>70</u>	ed to document Color (moi 10YR 6/- 7.5YR 4/- 10YR 6/- d Matrix, MS=Ma unless otherwis	primary indicator). the indicator or (Redd st) % 1 5 6 10 6 10 6 30 6 30 6 30 6 30 7 8 ked Sand Grains 6 noted.) Polyvalue Below S Thin Dark Surface Loamy Mucky Min- Loamy Gleyed Ma Depleted Matrix (F Redox Dark Surfa: Depleted Ochric (F17) Reduced Vertic (F Piedmont Floodpla Anomalous Bright	Confirm the absen 2X Features Type ¹ D C C C C C C C C C C C C C	ce of indicato <u>Loc²</u> <u>M</u> <u>M</u> <u>2</u> Location ² Locat	rs.)	Texture ilty Clay Sand Sand ators for Problema 1 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Materi Very Shallow Dark Other (Explain in F ³ Indicators of hy hydrology must problematic.	Re Splotchy iron pat atic Hydric Soils .RR O) (LRR S) 18) (outside MLF ain Soils (F19) (LF Loamy Soils (F20 ial (TF2) s Surface (TF12) Remarks) ydrophytic vegeta be present, unles	marks terns 3: RA 150A,B) RR P, S, T))) tion and wetland ss disturbed or
A positive indication SOIL Profile Description Depth (inches) 0-8 8-16 'Type: C=Concent Hydric Soils Indic Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay Organic Bodi Stratified Lay Comparis Bodi Stratified Lay Organic Bodi	n: (Describe to the <u>Matrix</u> <u>Color (moist)</u> <u>10YR 4/2</u> <u>10YR 6/1</u> <u>10YR </u>	y was observ depth neede <u>%</u> <u>85</u> <u>70</u> <u>70</u> RM=Reduced to all LRRs, 1 1) 1, T, U) 1) 1, J 150A) D, S)	ed to document Color (moi 10YR 6/- 7.5YR 4/- 10YR 6/- 10	primary indicator). the indicator or Redd st) % 1 5 6 10 6 10 6 30 5 6 30 5 6 10 6 6 10 6 7 7 8 8 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9	Confirm the absen xx Features Type ¹ D C C C C C C C C C C C C C	ce of indicato <u>Loc²</u> <u>M</u> <u>M</u> <u>2</u> Location ² Locat	rs.) S 	Texture ilty Clay Sand Sand 1 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Materi Very Shallow Dark Other (Explain in F ³ Indicators of h hydrology must problematic.	Re Splotchy iron pat atic Hydric Soils .RR O) (LRR S) 18) (outside MLF ain Soils (F19) (LF Loamy Soils (F20 ial (TF2) s Surface (TF12) Remarks) ydrophytic vegeta be present, unles	marks
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		·		Samping Foint.		
	Absolute % cover	Dominant Species	Status	Dominance Test worksheet:		
ree Stratum (Plot size: <u>30 ft.</u>)				Number of Dominant Species		
. Taxodium distichum	70	Yes	OBL	That Are OBL, FACW, or FAC:	3	(A)
. Ilex decidua	20	No	FACW			
. Triadica sebifera	10	No	FAC	Total Number of Dominant		
. Acer saccharinum	5	No	FAC	Species Across All Strata:	3	(B)
				Percent of Dominant Species		
	105	= Total Cover		That Are OBL, FACW, or FAC:	100%	(A/B)
50% of total cover:	52.5	20% of total cove	er: 21			. ,
apling Stratum (Plot size: 30 ft.)				Prevalence Index Worksheet:		
Triadica sebifera	10	Yes	FAC	Total % Cover of	Multiply by	
Taxodium distichum	5	Yes	OBL	OBL species 75	x 1 = 75	
		100		EACW species 20	x 2 - 10	
·			·	EAC species 20	x 2 = 40	
·					×3= <u>15</u>	
·				LIDL appecies	×4- U	
·	45	- T-t-LO-	·	OPL species U		
	15	= iotal Cover		Column Lotais: 120	(A) 190	
50% of total cover:	7.5	20% of total cove	er: <u>3</u>			
hrub Stratum (Plot size: <u>30 ft.</u>) . <u>None Observed</u>				Prevalence Index = B/A =	1.58	
				Hydrophytic Vegetation Indicators:		
				1 - Rapid Test for Hydrophytic	/egetation	
				X 2 - Dominance Test is >50%		
L.				X 3 - Prevalence Index is $\leq 3.0^{1}$		
).				Problematic Hydrophytic Veget	ation ¹ (Explain)	
		= Total Cover		Problematic Hydrophytic Veget	ation ¹ (Explain)	
550% of total cover:		= Total Cover 20% of total cove		Problematic Hydrophytic Veget	ation ¹ (Explain) rology must	
5550% of total cover:		= Total Cover 20% of total cove	 er:	Problematic Hydrophytic Veget Indicators of hydric soil and wetland hyd be present, unless disturbed or problemati	ation ¹ (Explain) rology must c.	
50% of total cover: <u>1erb Stratum</u> (Plot size: 30 ft.)		= Total Cover 20% of total cove		Problematic Hydrophytic Veget ¹ Indicators of hydric soil and wetland hyd be present, unless disturbed or problemati	ation ¹ (Explain) rology must c.	
:50% of total cover: <u>lerb Stratum</u> (Plot size: <u>30_ft) . None Observed</u>		= Total Cover 20% of total cove		Problematic Hydrophytic Veget Indicators of hydric soil and wetland hyd be present, unless disturbed or problemati Definitions of Five Vegetation Strata:	ation ¹ (Explain) rology must c.	
50% of total cover: <u>lerb Stratum</u> (Plot size: <u>30 ft.</u>) <u>None Observed</u>		= Total Cover 20% of total cove		Problematic Hydrophytic Veget Indicators of hydric soil and wetland hyd be present, unless disturbed or problemati Definitions of Five Vegetation Strata:	ation ¹ (Explain) rology must c.	
End Stratum (Plot size: <u>30 ft.</u>) . None Observed		= Total Cover 20% of total cove	r:	Problematic Hydrophytic Veget Indicators of hydric soil and wetland hyd be present, unless disturbed or problemati Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody via	ation ¹ (Explain) rology must c.	
50% of total cover: <u>lerb Stratum</u> (Plot size: <u>30 ft.</u>) . <u>None Observed</u>		= Total Cover 20% of total cove	r:	Problematic Hydrophytic Veget Indicators of hydric soil and wetland hyd be present, unless disturbed or problemati Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vin approximately 20 ft (6m) or more in height	ation ¹ (Explain) rology must c. 	
50% of total cover: <u>lerb Stratum</u> (Plot size: <u>30 ft.</u>) . <u>None Observed</u>		= Total Cover 20% of total cove		Problematic Hydrophytic Veget Indicators of hydric soil and wetland hyd be present, unless disturbed or problemati Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vin approximately 20 ft (6m) or more in height (76 or who reference in diameter at broast house)	ation ¹ (Explain) rology must c. ies, and 3 in.	
50% of total cover: <u>lerb Stratum</u> (Plot size: <u>30 ft.</u>) . <u>None Observed</u> 		= Total Cover 20% of total cove	ir:	Problematic Hydrophytic Veget ¹ Indicators of hydric soil and wetland hyd be present, unless disturbed or problemati Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vin approximately 20 ft (6m) or more in height (7.6 cm) or larger in diameter at breast height	ation ¹ (Explain) rology must c. ies, and 3 in. ght (DBH).	
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Project/Site:	Bob An	thony Parkway Re	elocation	Co	unty:	Rankin	Sampling	Date:	July 13, 2023
Applicant/Owner:		Mississippi Depa	artment of Transpor	rtation	Stat	e:	Mississippi Sample	Point:	DP23
Investigator(s):	Savannah R. Mo	rales and	Bettie Shoe	emaker	Section, Township	o, Range:		S01, T6N, R2E	
Landform (hillslope, terrac	ce, etc.):		Bottom		Local relief (conc	cave, convex, non	e): Concave	Slope (%):	0-5
Subregion (LRR or MLRA	.):	LRR	P, MLRA 134		Lat: 32.	.38772	Long: -90.05071	Datum:	NAD 83
Soil Map Unit Name:		Case	cilla-Arkabutla asso	ciation, frequent	tly flooded		NWI Classification:		PF01A
Are climatic / hydrologic c	onditions on the site i	typical for this time	e of year?	(Yes / No)	Yes	(If no, explain in Remar	KS.)	Y No
Are Vegetation	,30il	No or Hydr	rology No	significantiy	oblematic?	Ale Normai Cil	needed explain any answe	rs in Remarks)	
SUMMARY OF FIN	NDINGS - Attac	h site map s	howing samp	ling point l	ocations. tra	nsects. impo	ortant features. etc		
Hydrophytic Vogotation	Procont?	Voc V	No	51			· · · · · · · · , · · ·		
Hydrophylic Vegetation P Hydric Soil Present?	resent	Yes X	No		Is the Sampler	d Area			
Wetland Hydrology Pres	ent?	Yes X	No		within a Wetla	nd?	Yes X	No	
, ., .,						-			
Remarks: This point was deter	rmined to be within a	wetland due to the	e presence of all th	ree wetland crite	eria.				
					, and the second s				
Wetland bydrology	v Indicators:								
	y mulcators.						Secondary Indicators (minimum of two ree	quired)
Primary indicators (minimum of one is re	quired; check all t	nat appiy)	o Found (P13)		<u> </u>	Surface Soll Cr	acks (Bb) atod Concovo Sur	faco (PR)
High Water	Table (A2)		Aquau	enosits (B15)	RR II)		Drainage Patter	ne (B10)	lace (Do)
X Saturation (A3)		Hvdroc	ten Sulfide Odor	r (C1)		Moss Trim Line	s (B16)	
Water Mark	s (B1)		X Oxidize	ed Rhizospheres	s on Living Roots(C3)	Drv-Season Wa	iter Table (C2)	
Sediment De	eposits (B2)		Preser	nce of Reduced	Iron (C4)	/	X Crayfish Burrov	rs (C8)	
Drift Deposi	ts (B3)		Recent	t Iron Reduction	in Tilled Soils (C6	5)	Saturation Visib	le on Aerial Image	ry (C9)
X Algal Mat or	Crust (B4)		Thin M	luck Surface (C7	7)		Geomorphic Po	sition (D2)	
Iron Deposit	ts (B5)		Other ((Explain in Rema	arks)		Shallow Aquitar	d (D3)	
Inundation V	/isible on Aerial Imag	ery (B7)					X FAC-Neutral Te	st (D5)	
X Water-Stain	ed Leaves (B9)						Sphagnum mos	s (D8) (LRR T, U)	
Field Observations:									
Surface Water Present?	Yes	No	x	Depth (inches):	N/A	Wetland Hydro	ology Present?	Yes X	No
Water Table Present?	Yes	No	x	Depth (inches):	>16				
Saturation Present?	Yes	X No		Depth (inches):	0				
Describe Recorded	Data (stream gauge,	, monitoring well, a	aerial photos, previo	ous inspections)	, if available:				
Bomorko									
Remarks.									
A positive indication	n of wetland hydrolog	y was observed (a	at least one primary	v indicator).					
A positive indication	n of wetland hydrolog	y was observed (a	at least one primary	r indicator).					
A positive indication SOIL Profile Description	n of wetland hydrology	y was observed (a	at least one primary	r indicator). licator or confi	rm the absence o	of indicators.)			
A positive indication SOIL Profile Description Depth	n of wetland hydrology n: (Describe to the o Matrix	y was observed (a	at least one primary	r indicator). licator or confi Redox Fea	rm the absence o	of indicators.)			
A positive indication SOIL Profile Description Depth (inches)	n of wetland hydrology n: (Describe to the o Matrix Color (moist)	y was observed (a depth needed to	at least one primary document the ind Color (moist)	r indicator). licator or confii Redox Fea %_	rm the absence o atures Type ¹	of indicators.)	Texture		emarks
A positive indication SOIL Profile Description Depth (inches) 0-2	n of wetland hydrology n: (Describe to the o Matrix Color (moist) 10YR 3/1	y was observed (a	at least one primary document the ind Color (moist) None	r indicator). licator or confi Redox Fea <u>%</u> 	rm the absence o atures Type ¹	of indicators.)	Texture Clay Loam	R(emarks
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A positive indication SOIL Profile Description Depth O-2 2-16	n of wetland hydrology n: (Describe to the o Matrix Color (moist) 10YR 3/1 10YR 6/2 UNR 6/2	y was observed (a	at least one primary document the ind Color (moist) None 10YR 5/6 10YR 5/6	rindicator).	rm the absence of atures 	of indicators.) Loc ² M PL diameters Plan	Texture Clay Loam Clay Loam	Re	emarks
A positive indication SOIL Profile Description Depth O-2 2-16 Type: C=Concentr	n of wetland hydrology n: (Describe to the o Matrix Color (moist) 10YR 3/1 10YR 6/2 ration, D=Depletion, F ators: (Applicable t	y was observed (a	at least one primary document the ind Color (moist) None 10YR 5/6 10YR 5/6 rix, MS=Masked See	r indicator).	rm the absence o atures 	of indicators.) Loc ² M PL ² Location: PL=	Texture Clay Loam Clay Loam Pore Lining, M=Matrix.	R	emarks
A positive indication SOIL Profile Description Depth O-2 2-16 Type: C=Concentr Hydric Soils Indica Histosoi (A1)	n of wetland hydrology n: (Describe to the of Matrix Color (moist) 10YR 3/1 10YR 6/2 ration, D=Depletion, F ators: (Applicable to	y was observed (a	at least one primary document the ind Color (moist) None 10YR 5/6 10YR 5/6 rix, MS=Masked Se ss otherwise noted Polyvali	r indicator).	rm the absence o atures 	of indicators.) Loc ² M PL PL ² Location: PL=	Texture Clay Loam Clay Loam Pore Lining, M=Matrix. Indicators for Probler 1 cm Muck (A9)	R	emarks
A positive indication SOIL Profile Description Depth O-2 2-16	n of wetland hydrology n: (Describe to the of Matrix Color (moist) 10YR 3/1 10YR 6/2 ration, D=Depletion, F ators: (Applicable to on (A2)	y was observed (a	at least one primary document the ind Color (moist) None 10YR 5/6 10YR 5/6 rix, MS=Masked Se ss otherwise notedPolyvalu Thin Da	r indicator).	rm the absence o atures 	of indicators.) Loc ² M PL PL ² Location: PL= U)	Texture Clay Loam Clay Loam Pore Lining, M=Matrix. Indicators for Probler 1 cm Muck (A9) 2 cm Muck (A10)	R(emarks
A positive indication SOIL Profile Description Depth O-2 2-16 Type: C=Concentr Hydric Soils Indica Histosol (A1) Histic Epiped Black Histic (n of wetland hydrology n: (Describe to the of Matrix Color (moist) 10YR 3/1 10YR 6/2 ration, D=Depletion, F ators: (Applicable to on (A2) A3)	y was observed (a	at least one primary document the ind Color (moist) None 10YR 5/6 10YR 5/6 rix, MS=Masked Se ss otherwise notedPolyvaluThin Da Loamy N	r indicator).	rm the absence o atures 	of indicators.) Loc ² M PL 2Location: PL= U)	Texture Clay Loam Clay Loam Pore Lining, M=Matrix. Indicators for Probler 1 cm Muck (A9) 2 cm Muck (A10) Reduced Vertic (R(emarks
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A positive indication SOIL Profile Description Depth O-2 2-16 'Type: C=Concentr Hydric Soils Indica Histosol (A1) Histic Epiped Black Histo (I Histosol (A1) Histic Epiped Black Histo (I Histosol (A1) Histic Epiped Black Histosol (A1) Sandy Hucky Sandy Redox Stripped Matr Dark Surface Restrictive Layer (Type:	n of wetland hydrology n: (Describe to the of Matrix Color (moist) 10YR 3/1 10YR 6/2 ration, D=Depletion, F ators: (Applicable to on (A2) A3) Ifide (A4) ers (A5) es (A6) (LRR P, T, U Wineral (A7) (LRR P, ce (A8) (LRR U) V9) (LRR P, T) ow Dark Surface (A1: Wineral (S1) (LRR C d Matrix (S4) c (S5) (S7) (LRR P, S, T, L if observed): es): 	y was observed (a	at least one primary document the ind Color (moist) None 10YR 5/6 10YR 5/6 10YR 5/6 rix, MS=Masked Sz ss otherwise noted Thin Da Loamy N Loamy N Loamy N Loamy C Redox D Re	r indicator).	Type1	Df indicators.)	Texture Clay Loam Clay Loam Clay Loam Pore Lining, M=Matrix. Indicators for Probler 1 cm Muck (A9) 2 cm Muck (A10) 2 cm Muck (A10) Reduced Vertic (Piedmont Floodp Anomalous Brigh (MLRA 153B) Red Parent Mate Very Shallow Da Other (Explain in ³ Indicators of hydrology mu problematic.	Relevant	emarks

(Absolute %	Dominant	Indicator			
	cover	Species	Status	Dominance Test worksheet:		
ree Stratum (Plot size: <u>30 ft.</u>)				Number of Dominant Species		
. Taxodium distichum	80	Yes	OBL	That Are OBL, FACW, or FAC:	5 (A)	
2. Betula nigra	15	No	FACW			
3. Celtis laevigata	10	No	FACW	Total Number of Dominant		
·				Species Across All Strata:	5 (B)	
. <u> </u>		·		Percent of Dominant Species		
	105	= Total Cover		That Are OBL, FACW, or FAC:	100% (A/E	
50% of total cov	er: 52.5	20% of total cover:	21			
				Prevalence Index Worksheet:		
apling Stratum (Plot size: <u>30 ft.</u>)	-	X	540	T 1 1 1 0 0 1	NA 16 1 1	
l riadica sebifera	5	Yes	FAC	Total % Cover of:	Multiply by:	
·				OBL species 168		
•				FACW species 30	x 2 = 60	
·		· · · · · · · · · · · · · · · · · · ·		FAC species 12	X3=36	
·		· · · · · · · · · · · · · · · · · · ·		FACU species 0	X4=0	
·	5	= Total Cover		Column Totolo: 240	(A) 264	
50% of total cov		- Total Cover	1		(A) <u>204</u>	
	ei. <u>2.</u>	20% 01 10141 00001.				
hrub Stratum (Plot size: 30 ft)				Prevalence Index = B/A =	1.26	
Triadica sebifera	5	Yes	FAC		1.20	
	3	Yes	OBL	Hydrophytic Vegetation Indicators:		
				1 - Rapid Test for Hydrophyti	c Vegetation	
·		·		X 2 - Dominance Test is >50%	ovogotation	
·		· · · · · · · · · · · · · · · · · · ·		x 3 - Prevalence Index is ≤ 3.0	1	
		· · · · · · · · · · · · · · · · · · ·		Problematic Hydrophytic Veg	etation ¹ (Explain)	
	8	= Total Cover			、 、 、 、	
50% of total cov	er: 4	20% of total cover:	1.6	¹ Indicators of hydric soil and wetland h	vdroloav must	
	···· <u>····</u>			be present, unless disturbed or problema	atic.	
lerb Stratum (Plot size: 30 ft.)						
. Saururus cernuus	80	Yes	OBL	Definitions of Five Vegetation Strata:		
Brunnichia ovata	5	No	FACW			
. Persicaria hydropiperoides	5	No	OBL	Tree - Woody plants, excluding woody vines,		
. Toxicodendron radicans	2	No	FAC	approximately 20 ft (6m) or more in height and 3 in.		
				(7.6 cm) or larger in diameter at breast h	eight (DBH).	
				Sapling - Woody plants, excluding wood	ly vines,	
·				approximately 20 ft (6 m) or more in heig	ht and less	
				than 3 in. (7.6 cm) DBH.		
				Shrub - Woody plants, excluding woody	vines,	
	92	= Total Cover		approximately 3 to 20 ft (1 to 6 m) in heig	ght.	
50% of total cov	er: 46	20% of total cover:	18.4			
				Herb - All herbaceous (non-woody) plan	ts, including	
Voody Vine Stratum (Plot size: 30 ft.)				herbaceous vines, regardless of size, ar	<u>id</u> woody	
. None Observed				plants, except woody vines, less than ap	proximately	
2.				2 ft (1 m) in height.		
L				Woody vine - All woody vines, regardles	ss of height.	
i						
		= Total Cover		Hydrophytic		
50% of total cov	er:	20% of total cover:		Vegetation		
				Present? Yes X	No	




WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

	Bob An	thony Parkway Rel	ocation	Cou	inty:	Rankin	Sampling	Date:	July 13, 2023
Applicant/Owner:		Mississippi Depar	tment of Transporta	ation	State):	Mississippi Sample P	oint:	DP24
Investigator(s):	Savannah R. Mo	rales and	Bettie Shoen	naker S	Section, Township	, Range:	S	01, T6N, R2E	
Landform (hillslope, terra	ace, etc.):	Undu	lating Plane		Local relief (conc	ave, convex, non	ne): Concave	Slope (%):	0-5
Subregion (LRR or MLR	(A):	LRR P	9, MLRA 134		Lat: 32.3	38744	Long: -90.05121	Datum:	NAD 83
Soil Map Unit Name:		Casci	lla-Arkabutla associ	iation, frequentl	y flooded		NWI Classification:		PF01A
Are climatic / hydrologic	conditions on the site i	typical for this time	of year?	(Y	'es / No)	Yes	(if no, explain in Remark	s.) Voc	Y No
Are Vegetation	,30ii	NO or Hydro	logy NO		blematic?	Ale Normal Ci	needed explain any answer	s in Remarks)	<u> </u>
SUMMARY OF FI	INDINGS - Attac	h site map sh	owing sampli	ing point lo	ocations. trai	nsects, impo	ortant features, etc.	s in Remarks.)	
	. Decement2		N-		,				
Hydrophylic Vegetation Hydric Soil Present?	Present?	Yes X	No		is the Sampled	Area			
Wetland Hydrology Pre	esent?	Yes X	No		within a Wetlar	nd?	Yes X	No	
- ·								· ····	_
Remarks: This point was det	termined to be within a	wetland due to the	presence of all thre	e wetland crite	ria				
			procession of all the						
Wotland bydrolo	av Indicators:								
	gy mulcators.						Secondary Indicators (m	inimum of two req	uired)
Primary Indicators	(minimum of one is re	quired; check all the	at apply)	Found (P12)			Surface Soil Cra	cks (B6) ted Concerve Surfe	200 (PR)
Surface W	ar Table (A2)		Aqualic Marl Der	raulia (DIS) nosits (B15) /I F	2R II)		Drainage Pattern	e (B10)	
X Saturation	(A3)		Hydroge	en Sulfide Odor	(C1)		Moss Trim Lines	(B16)	
Water Mar	rks (B1)		Oxidized	Rhizospheres	on Living Roots(C	23)	Drv-Season Wat	er Table (C2)	
Sediment	Deposits (B2)		Presenc	e of Reduced Ir	ron (C4)	/	Crayfish Burrows	s (C8)	
Drift Depo	sits (B3)		Recent I	Iron Reduction i	in Tilled Soils (C6))	Saturation Visible	e on Aerial Imager	y (C9)
Algal Mat	or Crust (B4)		Thin Mu	ck Surface (C7))		X Geomorphic Pos	ition (D2)	
Iron Depos	sits (B5)		Other (E	xplain in Rema	rks)		Shallow Aquitard	(D3)	
Inundation	Visible on Aerial Imag	ery (B7)					X FAC-Neutral Tes	it (D5)	
X Water-Sta	ined Leaves (B9)						Sphagnum moss	(D8) (LRR T, U)	
Field Observations:									
Surface Water Present	? Yes	No	<u>x</u> D	epth (inches):	N/A	Wetland Hydr	ology Present?	Yes X	No
Water Table Present?	Yes	No	X D	epth (inches):	>16				
Saturation Present?	Yes	X No	D	epth (inches):	0				
Describe Recorde	ed Data (stream gauge,	, monitoring well, ae	erial photos, previou	us inspections),	if available:				
Pomarke:									
Kemarka.									
A positive indication	on of wetland hydrolog	www.ae.obearvad.(at							
		y was observed (at	least one primary in	ndicator).					
SOIL		y was observed (at	least one primary ir	ndicator).					
SOIL Profile Description	on: (Describe to the	depth needed to d	least one primary in	ndicator).	m the absence o	f indicators.)			
SOIL Profile Description	on: (Describe to the Matrix	depth needed to d	least one primary in	ndicator). cator or confirm Redox Fea	m the absence of	f indicators.)			
SOIL Profile Description Depth (inches)	on: (Describe to the on Matrix Color (moist)	depth needed to d	least one primary in	ndicator). cator or confiri Redox Fea	m the absence of tures Type ¹	f indicators.)	Texture	Rei	marks
SOIL Profile Description Depth (inches) 0-1	on: (Describe to the o Matrix Color (moist) 10YR 3/2	depth needed to d	least one primary in locument the indic Color (moist) None	ndicator). cator or confiri Redox Fea <u>%</u>	m the absence of tures Type ¹	f indicators.)	Texture Silt Loam	Rei	marks
SOIL Profile Descriptie Depth (inches) 0-1 1-16	on: (Describe to the Matrix Color (moist) 10YR 3/2 10YR 6/2	depth needed to d	least one primary in locument the indic Color (moist) None 10YR 6/8	ndicator). cator or confiri Redox Fea <u>%</u> <u>35</u>	m the absence of tures Type ¹ C	f indicators.) Loc ² M	Texture Silt Loam Silt Loam	Rei	marks
SOIL Profile Descriptie Depth (inches) 0-1 1-16	on: (Describe to the o Matrix Color (moist) 10YR 3/2 10YR 6/2	depth needed to d	least one primary in locument the indic Color (moist) None 10YR 6/8 10YR 6/8	cator or confirm Redox Fea 	m the absence of tures Type ¹ C C C	f indicators.) Loc ² M PL	Texture Silt Loam Silt Loam	Rei	marks
SOIL Profile Descriptie Depth (inches) 0-1 1-16	on: (Describe to the o Matrix Color (moist) 10YR 3/2 10YR 6/2	depth needed to d	least one primary in locument the indic Color (moist) None 10YR 6/8 10YR 6/8	ndicator).	m the absence of tures Type ¹ C C C	f indicators.) Loc ² M PL	Texture Silt Loam Silt Loam	Rei	marks
SOIL Profile Description Depth (inches) 0-1 1-16	on: (Describe to the one of Matrix Color (moist) 10YR 3/2 10YR 6/2	depth needed to d	least one primary in locument the indic Color (moist) None 10YR 6/8 10YR 6/8	ndicator). cator or confir Redox Fea %	m the absence of tures Type ¹ C C C	f indicators.)	Texture Silt Loam Silt Loam	Rei	marks
SOIL Profile Descriptie Depth (inches) 0-1 1-16 1-16 1-19 1Type: C=Concer	on: (Describe to the one of Matrix Color (moist) 10YR 3/2 10YR 6/2	depth needed to d	least one primary in locument the indic Color (moist) None 10YR 6/8 10YR 6/8 	Adicator).	m the absence of tures 	f indicators.) Loc ² M PL ² Location: PL=		Rei	marks
SOIL Profile Description Depth (inches) 0-1 1-16 1-16 1-16 1-Type: C=Concer Hydric Soils Indi Histosol(A)	on: (Describe to the one Matrix Color (moist) 10YR 3/2 10YR 6/2 INTRION, D=Depletion, F cators: (Applicable to 1)	depth needed to d	least one primary in locument the indic Color (moist) None 10YR 6/8 10YR 6/8 10YR 6/8 	Adicator or confir Redox Fea <u>%</u> <u>35</u> <u>5</u> <u>4</u> Grains.) Below Surface	m the absence of tures Type ¹ C C C (S8) (LRR S. T.)	f indicators.) Loc ² M PL ² Location: PL=	Texture Silt Loam Silt Loam Vertex Silt Loam Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I	Rei	marks
SOIL Profile Description Depth (inches) 0-1 1-16 1-16 1-16 1-Type: C=Concer Hydric Soils Indi Histo Soil (A' Histo Soil (A' Histo Fibre	on: (Describe to the one Matrix Color (moist) 10YR 3/2 10YR 6/2 10YR 6/2 Intration, D=Depletion, F cators: (Applicable to 1) adon (A2)	depth needed to d	least one primary in locument the indic Color (moist) None 10YR 6/8 10YR 6/8 10YR 6/8 x, MS=Masked San c otherwise noted. Polyvalue Thin Dark	Adicator).	m the absence of tures Type ¹ C C C (S8) (LRR S, T, I)	f indicators.) 		Rei	marks
SOIL Profile Description Depth (inches) 0-1 1-16 1-16 1-16 1-17ype: C=Concer Hydric Soils Indi Histosoi (A' Histosoi (A' Histosoi (A' Histosoi (A') Histosoi	on: (Describe to the one of Matrix Color (moist) 10YR 3/2 10YR 6/2 10YR 6/2 Intration, D=Depletion, F cators: (Applicable to 1) adon (A2) : (A3)	depth needed to d	least one primary in locument the indic Color (moist) None 10YR 6/8 10YR 6/8 x, MS=Masked San c otherwise noted. Polyvalue Thin Dark Loamy Mi	Adicator).	m the absence of tures Type ¹ C C C (S8) (LRR S, T, I LRR S, T, U) 1) (LRR O)	f indicators.) Loc ² M PL ² Location: PL= U)		Ren atic Hydric Soils ³ .RR O) (LRR S) 18) (outside MLR	marks
SOIL Profile Description Depth (inches) 0-1 1-16 1-16 1-16 1-17 Vype: C=Concer Hydric Soils Indi Histosoi (A' Histosoi (A') Histosoi (on: (Describe to the one of Matrix Color (moist) 10YR 3/2 10YR 6/2 10YR 6/2 Intration, D=Depletion, F cators: (Applicable to 1) adon (A2) : (A3) Sulfide (A4)	depth needed to d	least one primary in locument the indic Color (moist) None 10YR 6/8 10YR 6/8 x, MS=Masked San cotherwise noted. Polyvalue Thin Dark Loamy Mi Loamy Gi	Adicator).	m the absence of tures Type ¹ C C c (S8) (LRR S, T, I LRR S, T, U) 1) (LRR O) 2)	f indicators.) Loc ² M PL ² Location: PL= U)	Texture Silt Loam Silt Loam Silt Loam Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpla	Ren atic Hydric Soils ^a .RR O) (LRR S) 18) (outside MLR ain Soils (F19) (LR	marks
SOIL Profile Descriptie Depth (inches) 0-1 1-16 ' 'Type: C=Concer Hydric Soils Indi Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified Le	on: (Describe to the one of Matrix Color (moist) 10YR 3/2 10YR 6/2 10YR 6/2 Intration, D=Depletion, F cators: (Applicable to the other of the other of the other o	depth needed to d	least one primary in locument the indic Color (moist) None 10YR 6/8 10YR 6/8 x, MS=Masked San cotherwise noted. Polyvalue Thin Dark Loamy Mi Loamy Gi X_Depleted	Adicator or confirm Redox Fea 	m the absence of tures Type ¹ C C C (S8) (LRR S, T, U LRR S, T, U) 1) (LRR O) 2)	f indicators.) Loc ² M PL ² Location: PL= U)	Texture Silt Loam Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpla Anomalous Bright	Ren atic Hydric Soils ³ .RR O) (LRR S) i18) (outside MLF ain Soils (F19) (LR Loamy Soils (F20)	marks
SOIL Profile Description Depth (inches) 0-1 1-16 1-16 1-16 1-16 1-16 1-16 1-16	on: (Describe to the one of Matrix Color (moist) 10YR 3/2 10YR 6/2 10YR 6/2 Intration, D=Depletion, F cators: (Applicable to 1) adon (A2) 5 (A3) Sulfide (A4) ayers (A5) dies (A6) (LRR P, T, U	depth needed to d	least one primary in locument the indic Color (moist) None 10YR 6/8 10YR 6/8	Adicator or confirm Redox Fea 	m the absence of tures Type ¹ C C C (S8) (LRR S, T, U) (LRR S, T, U) 1) (LRR O) 2)	f indicators.) Loc ² M PL ² Location: PL= U)	Texture Silt Loam Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B)	Ren atic Hydric Soils ³ .RR O) (LRR S) :18) (outside MLR ain Soils (F19) (LR Loamy Soils (F20)	marks
SOIL Profile Description Depth (inches) 0-1 1-16 ' 'Type: C=Concer Hydric Soils Indi Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified Le Organic Bo 5 cm Mucky	on: (Describe to the one of Matrix Color (moist) 10YR 3/2 10YR 6/2 10YR 6/2 Intration, D=Depletion, F cators: (Applicable to 1) adon (A2) 4(A3) Sulfide (A4) ayers (A5) dies (A6) (LRR P, T, U y Mineral (A7) (LRR P, T, U	depth needed to d	least one primary in locument the indic Color (moist) 10YR 6/8 10YR 6/8 x, MS=Masked San cotherwise noted. Polyvalue Thin Dark Loamy Mi Loamy Gi X Depleted Redox Da Depleted	Adicator or confirm Redox Fea 	m the absence of tures Type ¹ C C C (S8) (LRR S, T, U) (LRR S, T, U) 1) (LRR O) 2) (F7)	f indicators.) Loc ² M PL ² Location: PL= U)	Texture Silt Loam Silt Loam Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Mater	Ren atic Hydric Soils ³ .RR O) (LRR S) ⁽¹⁸⁾ (outside MLR ain Soils (F19) (LR Loamy Soils (F20) ial (TF2)	marks
SOIL Profile Descriptie Depth (inches) 0-1 1-16 ' 'Type: C=Concer Hydric Soils Indi Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified La Organic Bo 5 cm Mucky Muck Prese	on: (Describe to the one of Matrix Color (moist) 10YR 3/2 10YR 6/2 10YR 6/2 Intration, D=Depletion, F cators: (Applicable to the one of the one one of the one of the one	depth needed to d	least one primary in locument the indic Color (moist) 10YR 6/8 10YR 6/8 10YR 6/8 x, MS=Masked San to therwise noted. Polyvalue Thin Dark Loamy Gi X, Depleted Redox Da Redox D	Adicator).	m the absence of tures Type ¹ C C C (S8) (LRR S, T, U LRR S, T, U) 1) (LRR O) 2) 57)	f indicators.) Loc ² M PL ² Location: PL= U)	Texture Silt Loam Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Dark	Ren atic Hydric Soils ³ atic Hydric Soils ³ atic Hydric Soils ³ (LRR S) (LRR S) (LRR S) (LRR S) (LRR S) (LR S) (L	marks
SOIL Profile Description Depth (inches) 0-1 1-16 ' 'Type: C=Concer Hydric Soils Indi Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified La Organic Bo 5 cm Mucky Muck Prese 1 cm Muck	on: (Describe to the one of Matrix Color (moist) 10YR 3/2 10YR 6/2 10YR 6/2 Intration, D=Depletion, F cators: (Applicable to the one of the one one of the one of the one	depth needed to d	least one primary in locument the indic Color (moist) 10YR 6/8 10YR 6/8 10YR 6/8 x, MS=Masked San otherwise noted. Polyvalue Thin Dark Loamy Gi X, Depleted Redox Da Depleted Redox Da Marl (F10	Adicator).	m the absence of tures Type ¹ C C C (S8) (LRR S, T, U LRR S, T, U) 1) (LRR O) 2) 57)	f indicators.) Loc ² M PL ² Location: PL=	Texture Silt Loam Silt Loam Silt Loam It Loam Indicators for Problem Carner Muck (A9) (I Carner Muck (A9) Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Dark Other (Explain in I	Ren atic Hydric Soils ³ atic Hydric Soils ³ atic Hydric Soils ³ (LRR S) (LRR S) (LRR S) (LRR S) (LR	<u>marks</u>
SOIL Profile Descriptie Depth (inches) 0-1 1-16 ' ' 'Type: C=Concer Hydric Soils Indi Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified La Organic Bo 5 cm Mucky Muck Prese 1 cm Muck X Depleted B	on: (Describe to the one of Matrix Color (moist) 10YR 3/2 10YR 6/2 10YR 6/2 Intration, D=Depletion, F cators: (Applicable to the one of the one one of the one of the one	depth needed to d	least one primary in locument the indic Color (moist) 10YR 6/8 10YR 6/8 10YR 6/8 x, MS=Masked San otherwise noted. Polyvalue Thin Dark Loamy Gi X, Depleted Redox De Marl (F10 Depleted I I	Adicator).	m the absence of tures Type ¹ C C C (S8) (LRR S, T, U (LRR S, T, U) 1) (LRR O) 2) (LRA 151) (C (C C C (C (C) (C) (C) (C)	f indicators.) Loc ² M PL ² Location: PL= U)	Texture Silt Loam Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Darl Other (Explain in I ³ Indicators of b	Rer atic Hydric Soils ³ RR O) (LRR S) i18) (outside MLF ain Soils (F19) (LR Loamy Soils (F20) ial (TF2) s Surface (TF12) Remarks)	<u>marks</u>
SOIL Profile Descriptie Depth (inches) 0-1 1-16 ' 'Type: C=Concer Hydric Soils Indi Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified La Organic Bo 5 cm Mucky Muck Prese 1 cm Muck X Depleted Br Chick Dark Chick Dark	on: (Describe to the one of Matrix Color (moist) 10YR 3/2 10YR 6/2 10YR 6/2 Intration, D=Depletion, F cators: (Applicable to 1) don (A2) (A3) Sulfide (A4) ayers (A5) dies (A6) (LRR P, T, U y Mineral (A7) (LRR P, ance (A8) (LRR U) (A9) (LRR P, T) elow Dark Surface (A1: Surface (A12) is Redox (A16) (MLR D)	depth needed to d	least one primary in locument the indic Color (moist) None 10YR 6/8 10YR 6/8	cator or confir Redox Fea <u>%</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>36</u> <u>35</u> <u>36</u> <u>35</u> <u>36</u> <u>37</u> <u>35</u> <u>36</u> <u>37</u> <u>35</u> <u>36</u> <u>37</u> <u>35</u> <u>37</u> <u>35</u> <u>37</u> <u>35</u> <u>37</u> <u>35</u> <u>37</u> <u>35</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>37</u> <u>3</u>	m the absence of tures Type ¹ C C C (S8) (LRR S, T, U (LRR S, T, U) 1) (LRR O) 2) (LRR 151) (LRR 0, F PR P T U	f indicators.) _	Texture Silt Loam Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) C reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Darl Other (Explain in I ³ Indicators of h hydrology musi	Rer atic Hydric Soils ³ atic Hydric Soils ³ RR O) (LRR S) i18) (outside MLR ain Soils (F19) (LR Loamy Soils (F20) ial (TF2) s Surface (TF12) Remarks) ydrophytic vegetal b e present, unles	marks
SOIL Profile Descriptie Depth (inches) 0-1 1-16 ''Type: C=Concer Hydric Soils Indi Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified La Organic Bo 5 cm Mucky Muck Prese 1 cm Muck X Depleted Bi Thick Dark Coast Prair Sandy Muc	on: (Describe to the one of Matrix Color (moist) 10YR 3/2 10YR 6/2 10YR 6/2 Intration, D=Depletion, F cators: (Applicable to 1) don (A2) (A3) Sulfide (A4) ayers (A5) dies (A6) (LRR P, T, U y Mineral (A7) (LRR P, and (LRR P, T) elow Dark Surface (A1: Surface (A12) ie Redox (A16) (MLRA ky Mineral (S1) (IRP A)	(a) (a) (a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c	least one primary in locument the indic Color (moist) None 10YR 6/8 10YR 6/8 Polyvalue Thin Dark Loamy Mi Loamy Gi X Depleted Redox Da Depleted Redox Da Depleted Iron-Mang Umbric Si Delta Oct	cator or confir Redox Fea <u>%</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>35</u> <u>36</u> <u>36</u> <u>37</u> <u>38</u> <u>38</u> <u>39</u> <u>39</u> <u>39</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u>	m the absence of tures Type ¹ C C C (S8) (LRR S, T, I LRR S, T, U) 1) (LRR O) 2) (F7) (F12) (LRR O, F RR P, T, U) (A 151)	f indicators.) 	Texture Silt Loam Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Dari Other (Explain in I ³ Indicators of h hydrology musl problematic.	Ren atic Hydric Soils ³ atic Hydric Soils ³ (LRR S) (LRR S) (I) (outside MLR ain Soils (F19) (LR Loamy Soils (F20) ial (TF2) (Surface (TF12) Remarks) ydrophytic vegetat be present, unles	marks
SOIL Profile Description Depth (inches) 0-1 1-16 ''Type: C=Concer Hydric Soils Indi Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified La Organic Bo 5 cm Mucky Muck Prese 1 cm Muck X Depleted Bo Coast Prain Coast Prain Sandy Glav Sandy Glav Sandy Glav	on: (Describe to the one of Matrix Color (moist) 10YR 3/2 10YR 6/2 10YR 6/2 	(a depth needed to d <u>%</u> <u>100</u> <u>60</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u></u>	least one primary in locument the indic Color (moist) None 10YR 6/8 10YR 6/8 NOYR 6/8 NOYR 6/8 Notherwise noted. Polyvalue Thin Dark Loamy Mi Loamy Gi X Depleted Redox Da Depleted Iron-Mang Umbric Si Delta Och Reduced	cator or confir Redox Fea % 35 5 4 4 4 4 5 5 5 5 5 6 5 6 7 7 8 8 9 8 8 1 9 1 9 1 1 1 1 1 1 1 1 1 1 1 1 1	m the absence of tures Type ¹ C C C (S8) (LRR S, T, I LRR S, T, U) 1) (LRR O) 2) (F12) (LRR O, F RR P, T, U) (A 151) LRA 150A. 150B	f indicators.) 	Texture Silt Loam Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Darl Other (Explain in I ³ Indicators of h hydrology musl problematic.	Ren atic Hydric Soils ³ atic Hydric Soils ³ RR O) (LRR S) i18) (outside MLR ain Soils (F19) (LR Loamy Soils (F20) ial (TF2) s Surface (TF12) Remarks) ydrophytic vegetat be present, unles	marks
SOIL Profile Description Depth (inches) 0-1 1-16 ''Type: C=Concer Hydric Soils Indi Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified La Organic Bo 5 cm Mucky Muck Prese 1 cm Muck X Depleted Bo Coast Prair Sandy Revi Sa	on: (Describe to the one of Matrix Color (moist) 10YR 3/2 10YR 6/2 10YR 6/2 	(a depth needed to d <u>%</u> <u>100</u> <u>60</u> <u>60</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>8</u>	least one primary in locument the indic Color (moist) None 10YR 6/8 10YR 6/8 10YR 6/8 Polyvalue Thin Dark Loamy Mi Loamy Gi X Depleted Redox Da Depleted Iron-Mang Umbric Si Delta Och Reduced Piedmont	cator or confir Redox Fea % 35 5 4 Grains. ad Grains. ad Grains. ad Grains. b Below Surface (Surface (S9) (I ucky Mineral (F Bark Surface (F6) Dark Surface (F6) Dark Surface (F6) Dark Surface (F6) Dark Surface (F1) (LIR U) Ochric (F11) (M ganese Masses urface (F13) (LI tric (F17) (MLR Vertic (F18) (M Floodplain Soil	m the absence of tures Type ¹ C C C (S8) (LRR S, T, I LRR S, T, U) 1) (LRR O) 2) (F12) (LRR O, F RR P, T, U) (A 151) LRA 150A, 150B, (s (F19) (MLRA 14	f indicators.) 	Texture Silt Loam Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) C 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Dari Other (Explain in I ³ Indicators of h hydrology musi problematic.	Ren atic Hydric Soils ³ atic Hydric Soils ³ (LRR S) (LRR S) (I) (outside MLR ain Soils (F19) (LR Loamy Soils (F20) ial (TF2) (Surface (TF12) Remarks) ydrophytic vegetat be present, unles	marks
SOIL Profile Description Depth (inches) 0-1 1-16 ''Type: C=Concer Hydric Soils Indi Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified La Organic Bo 5 cm Mucky Muck Prese 1 cm Muck X Depleted Bo Coast Prair Sandy Redu Sandy Redu Sandy Redu Stripped Ma	on: (Describe to the one of Matrix Color (moist) 10YR 3/2 10YR 6/2 10YR 6/2 	(a depth needed to d <u>%</u> <u>100</u> <u>60</u> <u>60</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>81</u> <u>8</u>	least one primary in locument the indic Color (moist) None 10YR 6/8 10YR 6/8 10YR 6/8 x, MS=Masked San otherwise noted. Polyvalue Thin Dark Loamy Mi Loamy Mi Loamy Gi X Depleted Redox Da Depleted Iron-Mang Umbric Si Delta Och Reduced Piedmont Anomalou	cator or confir Redox Fea <u>%</u> <u>35</u> <u>5</u> <u>35</u> <u>5</u> <u>36</u> <u>37</u> <u>38</u> <u>39</u> <u>39</u> <u>39</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u>	m the absence of tures Type ¹ C C C (S8) (LRR S, T, I LRR S, T, U) 1) (LRR O) 2) (F12) (LRR O, F RR P, T, U) (A 151) LRA 150A, 150B/ (s (F12) (MLRA 14 / Soils (F20) (MLRA 14	f indicators.) 	Texture Silt Loam Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) C 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Darl Other (Explain in I ³ Indicators of h hydrology musl problematic.	Ref atic Hydric Soils ³ atic Hydric Soils ³ RR O) (LRR S) i18) (outside MLR ain Soils (F19) (LR Loamy Soils (F20) ial (TF2) s Surface (TF12) Remarks) ydrophytic vegetat be present, unles	marks
SOIL Profile Description Depth (inches) 0-1 1-16 ''Type: C=Concer Hydric Soils Indi Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified La Organic Bo 5 cm Mucky Muck Prese 1 cm Muck X Depleted Bo Coast Prair Sandy Rdu Sandy Rdu Sandy Rdu Dark Surfac	on: (Describe to the one of Matrix Color (moist) 10YR 3/2 10YR 6/2 10YR 6/2 	(a depth needed to d <u>%</u> <u>100</u> <u>60</u> <u>0</u> <u>0</u> <u>100</u> <u>60</u> <u>0</u> <u>100</u> <u>100</u> <u>60</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>10</u>	least one primary in locument the indic Color (moist) None 10YR 6/8 10YR 6/8 10YR 6/8 x, MS=Masked San otherwise noted. Polyvalue Thin Dark Loamy Mi Loamy Mi Loamy Gi X Depleted Redox Da Depleted Marl (F10 Depleted Iron-Mang Umbric St Delta Och Reduced Piedmont Anomalou	Adicator).	m the absence of tures Type ¹ C C C (S8) (LRR S, T, I LRR S, T, U) 1) (LRR O) 2) (F7) MLRA 151) 5 (F12) (LRR O, F RR P, T, U) (A 151) LRA 150A, 150B, (s (F19) (MLRA 14 7 Soils (F20) (MLR	f indicators.) 	Texture Silt Loam Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Dari Other (Explain in I ³ Indicators of h hydrology musi problematic.	Ren atic Hydric Soils ³ atic Hydric Soils ³ (LRR S) (LRR S) (ILRR S) (ILR S)	marks
SOIL Profile Description Depth (inches) 0-1 1-16 1-16 1-16 1-16 1-17 Hydric Soils Indi Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified La Organic Bo 5 cm Mucky Muck Prese 1 cm Muck X Depleted Bo Coast Prair Sandy Red Sandy Red Sandy Red Sandy Red Coast Prair Sandy Ruce Sandy Red Sandy Red Coast Prair Sandy Ruce Sandy Red Sandy Red Coast Prair	on: (Describe to the one of Matrix Color (moist) 10YR 3/2 10YR 6/2 10YR 6/2 	(a depth needed to d <u>%</u> <u>100</u> <u>60</u> <u>0</u> (M=Reduced Matri o all LRRs, unless) T, U) 1) 150A) D, S)	least one primary in locument the indic Color (moist) None 10YR 6/8 10YR 6/8 10YR 6/8 x, MS=Masked San otherwise noted. Polyvalue Thin Dark Loamy Mi Loamy Mi Loamy Gi X Depleted Redox Da Depleted Marl (F10 Depleted Iron-Mang Umbric St Delta Och Reduced Piedmont Anomalou	Adicator).	m the absence of tures Type ¹ C C C (S8) (LRR S, T, I LRR S, T, U) 1) (LRR O) 2) (F7) MLRA 151) 5 (F12) (LRR O, F RR P, T, U) (A 151) LRA 150A, 150B; (s (F19) (MLRA 14 7 Soils (F20) (MLF	f indicators.) 	Texture Silt Loam Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) C 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Dari Other (Explain in I ³ Indicators of h hydrology musi problematic.	Ref atic Hydric Soils ³ ARR O) (LRR S) i18) (outside MLR ain Soils (F19) (LR Loamy Soils (F20) ial (TF2) s Surface (TF12) Remarks) ydrophytic vegetat be present, unles	marks
SOIL Profile Description Depth (inches) 0-1 1-16 ''Type: C=Concer Hydric Soils Indi Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified La Organic Bo 5 cm Mucky Muck Prese 1 cm Muck X Depleted Bo 5 cm Mucky Muck Prese 1 cm Muck X Depleted Bo Coast Prair Sandy Red San	on: (Describe to the one of Matrix Color (moist) 10YR 3/2 10YR 6/2 10YR 6/2 	(a depth needed to d <u>%</u> <u>100</u> <u>60</u> <u>0</u> (M=Reduced Matri o all LRRs, unless) T, U) 1) 150A) D, S)	least one primary in locument the indic Color (moist) None 10YR 6/8 10YR 6/8 10YR 6/8 x, MS=Masked San otherwise noted. Polyvalue Thin Dark Loamy Mi Loamy Gi X Depleted Redox De Marl (F10 Depleted Iron-Mang Umbric St Delta Och Reduced Piedmont Anomalou	Adicator).	m the absence of tures Type ¹ C C C (S8) (LRR S, T, I LRR S, T, U) 1) (LRR O) 2) (F7) MLRA 151) (F12) (LRR O, F RR P, T, U) (A 151) LRA 150A, 150B (s (F19) (MLRA 14 / Soils (F20) (MLF	f indicators.) 	Texture Silt Loam Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) C 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Dari Other (Explain in I ³ Indicators of h hydrology musl problematic.	Ref atic Hydric Soils ³ ARR O) (LRR S) i18) (outside MLF ain Soils (F19) (LR Loamy Soils (F20) ial (TF2) surface (TF12) Remarks) ydrophytic vegetat be present, unles	marks
SOIL Profile Description Depth (inches) 0-1 1-16 ''Type: C=Concer Hydric Soils Indi Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified Le Organic Bo Stratified Le Organic Bo Stratified Le Organic Bo Stratified Le Coast Prair Sandy Redu Sandy Gley Sandy Redu Coast Prair Sandy Ruck Coast Prair	on: (Describe to the one of Matrix Color (moist) 10YR 3/2 10YR 6/2 	(a) (a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c	least one primary in locument the indic Color (moist) None 10YR 6/8 10YR 6/8 10YR 6/8 	Adicator).	m the absence of tures Type ¹ C C C (S8) (LRR S, T, I LRR S, T, U) 1) (LRR O) 2) MLRA 151) (F12) (LRR O, F RR P, T, U) (A 151) LRA 150A, 150B; (s (F19) (MLRA 14 r Soils (F20) (MLF	f indicators.) 	Texture Silt Loam Silt Loam Silt Loam Pore Lining, M=Matrix. Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) 2 cm Muck (A10) Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Dari Other (Explain in I ³ Indicators of h hydrology musl problematic.	Ref 	marks
SOIL Profile Description Depth (inches) 0-1 1-16 ' 'Type: C=Concer Hydric Soils Indi Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified Le Organic Bo Stripted Ba Dark Surfac Stripped Ma Dark Surfac Restrictive Layer Type: Depth (inc	on: (Describe to the one of Matrix Color (moist) 10YR 3/2 10YR 6/2 	(a) (a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c	least one primary in locument the indic Color (moist) None 10YR 6/8 10YR 6/8 10YR 6/8 	Adicator).	m the absence of tures Type ¹ C C C (S8) (LRR S, T, I LRR S, T, U) 1) (LRR O) 2) MLRA 151) (F12) (LRR O, F RR P, T, U) (A 151) LRA 150A, 150B; (s (F19) (MLRA 14 / Soils (F20) (MLF	f indicators.) 	Texture Silt Loam Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) C Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Dari Other (Explain in I ³ Indicators of h hydrology musi problematic.	Ref atic Hydric Soils ³ .RR O) (LRR S) in Soils (F19) (LR Loamy Soils (F20) ial (TF2) (Surface (TF12) Remarks) ydrophytic vegetat t be present, unles	marks
SOIL Profile Description Depth (inches) 0-1 1-16 ' 'Type: C=Concer Hydric Soils Indi Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified Le Organic Bo Stratified Le Organic Bo Stratified Le Organic Bo Stratified Bu Cosst Prair Sandy Muck Cosst Prair Sandy Red Sandy Gley Sandy Gley Sandy Red Stripped Ma Dark Surface Restrictive Layer Type: Depth (inc	on: (Describe to the one of the formattic series of th	(a) (a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c	least one primary in locument the indic Color (moist) None 10YR 6/8 10YR 6/8 10YR 6/8 	Adicator).	m the absence of tures Type ¹ C C C (S8) (LRR S, T, I LRR S, T, U) 1) (LRR O) 2) MLRA 151) (F12) (LRR O, F RR P, T, U) (A 151) LRA 150A, 150B; (s (F19) (MLRA 14 y Soils (F20) (MLF	f indicators.) 	Texture Silt Loam Silt Loam Silt Loam Indicators for Problem 1 cm Muck (A9) (I 2 cm Muck (A10) C Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Dari Other (Explain in I 3 Indicators of h hydrology musi problematic.	Ref atic Hydric Soils ³ .RR O) (LRR S) in Soils (F19) (LR Loamy Soils (F20) ial (TF2) (Surface (TF12) Remarks) ydrophytic vegetat t be present, unles	marks

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

	es or plants.						DI 24	
	Absolute % cover	Dominant Species	Indicator Status	Dominance Test work	sheet:			
Free Stratum (Plot size: 30 ft.)				Number of Dominant Sr	pecies			
1. Acer saccharinum	60	Yes	FAC	That Are OBL, FACW, o	or FAC:		10	(A)
2. Celtis laevigata	10	No	FACW					()
3. Halesia diptera	10	No	FAC	Total Number of Domina	ant			
4. Triadica sebifera	5	No	FAC	Species Across All Stra	ta:		10	(B)
5.								. ,
).				Percent of Dominant Sp	ecies			
	85 =	Total Cover		That Are OBL, FACW, o	or FAC:	1	00%	(A/B)
50% of total cover	r: 42.5	20% of total cover:	17					. ,
		-		Denvelop og læden Wer				
apling Stratum (Plot size: 30 ft.)				Prevalence index wor	ksneet:			
. Halesia diptera	8	Yes	FAC	Total % (Cover of:		Multiply by:	
. Triadica sebifera	5	Yes	FAC	OBL species	0	x 1 =	0	
				FACW species	15	x 2 =	30	
				FAC species	103	x 3 =	309	
				FACU species	0	x 4 =	0	
				UPL species	0	x 5 =	0	
	13 =	Total Cover	-	Column Totals:	118	(A)	339	
50% of total cover	r: 6.5	20% of total cover:	2.6					
		· · ·						
hrub Stratum (Plot size: 30 ft.)				Prevalence	Index = B/A =		2.87	
. Acer saccharinum	3	Yes	FAC					
				Hydrophytic Vegetatio	on Indicators:			
				1 - Rapid Te	st for Hvdrophytic	Vegetation		
·				X 2 - Dominan	ce Test is >50%			
5				X 3 - Prevalen	ce Index is $\leq 3.0^1$			
3		·		Problematic	Hvdrophytic Vege	tation ¹ (Exp	ain)	
···	3	Total Cover						
50% of total cover	r: 15	20% of total cover:	0.6	¹ Indicators of hydric se	oil and wetland by	drology mus	ł	
		2010 01 10101 00001.	0.0	he present unless dist	urbed or problemat	ic	•	
Herb Stratum (Plot size: 30 ft)				bo procent, amooo alote	nood of problema			
Carex cherokeensis	3	Yes	FACW	Definitions of Five Ver	petation Strata:			
2 Toxicodendron radicans	1	Yes	FAC	Definitions of Five Ve	getation offata.			
Brunnichia ovata	1	Ves	FACW	Tree - Woody plants e	veluding woody vi	nec		
1 Boehmeria cylindrica	1	Ves	FACW	approximately 20 ft (6m) or more in height	and 3 in		
		103	TAON	(7.6 cm) or larger in dia	y of more in neight	iaht (DBU)		
				(7.0 cm) of larger in that	ineter at breast ne	igiti (DDi I).		
7		·		Sapling - Woody plants	. excludina woodv	vines.		
		·		approximately 20 ft (6 m) or more in heigh	t and less		
)		·		than 3 in. (7.6 cm) DBH	.,			
)		•						
)				Shruh - Woody plants	excluding woody y	lines		
). I				Shrub - Woody plants,	excluding woody v	vines,		
))	6=	= Total Cover		Shrub - Woody plants, approximately 3 to 20 ft	excluding woody v (1 to 6 m) in heigh	rines, nt.		
9 0 1 50% of total cover	= r:3	Total Cover	1.2	Shrub - Woody plants, approximately 3 to 20 ft	excluding woody v (1 to 6 m) in heigh	rines, ht.		
9 0 1 50% of total cover	<u> </u>	Total Cover 20% of total cover:	1.2	Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous (excluding woody v (1 to 6 m) in heigh	rines, ht. , including		
9 0 1 50% of total cover <u>Voody Vine Stratum</u> (Plot size: <u>30 ft.</u>)	 	Total Cover 20% of total cover:	1.2	Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous (herbaceous vines, rega	excluding woody v (1 to 6 m) in heigh non-woody) plants rdless of size, <u>and</u>	rines, ht. , including		
	= = 	Total Cover 20% of total cover: Yes	1.2 FAC	Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous (herbaceous vines, rega plants, except woody vi	excluding woody v (1 to 6 m) in heigh non-woody) plants rdless of size, <u>and</u> nes, less than app	rines, nt. , including woody roximately		
)	 r:3 83	Total Cover 20% of total cover: Yes Yes	1.2 FAC FAC	Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous (herbaceous vines, rega plants, except woody vi 2 ft (1 m) in height.	excluding woody v (1 to 6 m) in heigh non-woody) plants rdless of size, <u>and</u> nes, less than app	rines, nt. , including woody roximately		
). 	 	Total Cover 20% of total cover: Yes Yes	1.2 FAC FAC	Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous (herbaceous vines, rega plants, except woody vi 2 ft (1 m) in height.	excluding woody v (1 to 6 m) in heigh non-woody) plants rdless of size, <u>and</u> nes, less than app	rines, nt. , including woody roximately		
). 	 r: 	Total Cover 20% of total cover: Yes Yes	1.2 FAC FAC	Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous (herbaceous vines, rega plants, except woody vi 2 ft (1 m) in height. Woody vine - All woody	excluding woody v (1 to 6 m) in heigh non-woody) plants rdless of size, <u>and</u> nes, less than app y vines, regardless	rines, nt. , including woody roximately s of height.		
9	 	Total Cover 20% of total cover: Yes Yes	1.2 FAC FAC	Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous (herbaceous vines, rega plants, except woody vi 2 ft (1 m) in height. Woody vine - All woody	excluding woody v (1 to 6 m) in heigt non-woody) plants rdless of size, <u>and</u> nes, less than app y vines, regardless	rines, nt. woody roximately of height.		
9	 	Total Cover 20% of total cover: Yes Yes Total Cover	1.2 FAC FAC	Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous (herbaceous vines, rega plants, except woody vi 2 ft (1 m) in height. Woody vine - All woody Hydrophytic	excluding woody v (1 to 6 m) in heigt non-woody) plants rdless of size, <u>and</u> nes, less than app y vines, regardless	rines, it. , including woody roximately s of height.		
9	 _	Total Cover 20% of total cover: Yes Yes Total Cover 20% of total cover:	1.2 FAC FAC 2.2	Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous (herbaceous vines, rega plants, except woody vi 2 ft (1 m) in height. Woody vine - All woody Hydrophytic Vegetation	excluding woody v (1 to 6 m) in heigt non-woody) plants rdless of size, <u>and</u> nes, less than app y vines, regardless	ines, it. i, including woody roximately s of height.		
9.	 	Total Cover 20% of total cover: Yes Yes Yes Total Cover 20% of total cover:	1.2 FAC FAC 2.2	Shrub - Woody plants, approximately 3 to 20 ft Herb - All herbaceous (herbaceous vines, rega plants, except woody vi 2 ft (1 m) in height. Woody vine - All woody Hydrophytic Vegetation Present?	excluding woody v (1 to 6 m) in heigh non-woody) plants rdless of size, <u>and</u> nes, less than app y vines, regardless Yes X	rines, it. ; including woody roximately ; of height.		

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

	Bob Anthony I	Parkway Relocatior	n	County:	R	ankin	Sampling D	ate:	July 13, 2023
Applicant/Owner:	Missi	ssippi Department	of Transportation		State:	Mississip	pi Sample Po	int:	DP25
Investigator(s): S	avannah R. Morales	and	Bettie Shoemaker	Section,	Township, Range:		SO	1, T6N, R2E	
Landform (hillslope, terrace, etc):	Hillslope	e	Local re	elief (concave, con	vex, none):	Linear Slope	Slope (%):	10-20
Subregion (LRR or MLRA):		LRR P, MLR	A 134	Lat:	32.38657	Long:	-90.04952	Datum:	NAD 83
Are climatic / hydrologic conditi	ons on the site typical	for this time of year	r?	(Yes / No)		INVV	explain in Remarks)	N/A
Are Vegetation N	o ,Soil No	or Hydrology	No signi	ificantly disturbe	d? Are "No	ormal Circumstanc	es" present?	Yes	X No
Are Vegetation N	o ,Soil No	,or Hydrology	No natu	rally problematio	c?	(If needed, e	xplain any answers	in Remarks.)	
SUMMARY OF FINDIN	GS - Attach site	e map showir	ng sampling po	oint locatio	ns, transects	, important f	eatures, etc.		
Hydrophytic Vegetation Prese	nt? Ye	es	No X	_					
Hydric Soil Present?	Ye	es	No <u>X</u>	Is the	Sampled Area				
Wetland Hydrology Present?	Ye	es	No <u>X</u>	within	a Wetland?		Yes	No	x
Remarks:				•					
This point was determine	d not to be within a we	tland due to the lac	ck of all three wetlan	d criteria.					
HYDROLOGY									
Wetland hydrology Indi	cators:					Secon	dary Indicators (mir	nimum of two req	uired)
Primary Indicators (minim	um of one is required;	check all that appl	ly)				Surface Soil Crack	ks (B6)	
Surface Water (A	1)		Aquatic Fauna ((B13)		·	Sparsely Vegetate	ed Concave Surfa	ace (B8)
High Water Table	(A2)		Marl Deposits (I	B15) (LRR U)			Drainage Patterns	s (B10) B16)	
Water Marks (B1			Oxidized Rhizos	soberes on Livin	a Roots(C3)		Dry-Season Wate	r Table (C2)	
Sediment Deposi	s (B2)		Presence of Re	duced Iron (C4)			Crayfish Burrows	(C8)	
Drift Deposits (B3)		Recent Iron Rec	duction in Tilled	Soils (C6)		Saturation Visible	on Aerial Imager	y (C9)
Algal Mat or Crus	t (B4)		Thin Muck Surfa	ace (C7)			Geomorphic Posit	ion (D2)	
Iron Deposits (B5)		Other (Explain i	in Remarks)			Shallow Aquitard ((D3)	
Inundation Visible	on Aerial Imagery (B7	')				·	FAC-Neutral Test	(D5)	
Water-Stained Le	aves (B9)						Sphagnum moss ((D8) (LRR T, U)	
Field Observations:									
Surface Water Present?	Yes	NoX	Depth (in	nches): N/A	Wetlan	nd Hydrology Pre	sent?	Yes	_ No <u>X</u>
Saturation Present?	Yes	NO	Depth (in Depth (in	nches): >16	<u>,</u>				
Describe Recorded Data	(stream gauge, monito	pring well, aerial ph	notos, previous inspe	ections), if availa	able:				
		0 1		<i>,.</i>					
Remarks:									
No positive indication of	vetland hydrology was	observed.							
SOIL									
Drafile Descriptions (D				6		\			
Profile Description: (D	escribe to the depth	needed to docum	ent the indicator of	r confirm the al	bsence of indicat	ors.)			
Profile Description: (D Depth (inches) Col	escribe to the depth Matrix or (moist) %	needed to docum	ent the indicator of Rec (moist) %	r confirm the al dox Features Type	bsence of indicat	ors.)	exture	Re	marks
Profile Description: (D Depth (inches) Col 0-2 10	escribe to the depth Matrix or (moist)% DYR 5/310	needed to docum	ent the indicator of Rec moist) % ne	r confirm the al dox Features Type	bsence of indicat	ors.) .²	exture	Re	marks
Profile Description: (D) Depth	Antrix Matrix 0r (moist) % 0YR 5/3 10 0YR 5/6 10	Color (Color (Color (No 0 No	ent the indicator of Rec (moist) % ne ne	r confirm the at dox Features Type 	bsence of indicat	ors.) 2	exture	Rei	marks
Profile Description: (D Depth	Addrix Matrix or (moist) % IYR 5/3 10 IYR 5/6 10	Color (0 No 0 No	ent the indicator of Rec moist) % ne ne	r confirm the at dox Features Type 	bsence of indicat <u> <u> </u> </u>	ors.) ² T Si Si Si	exture	Re	marks
Profile Description: (D Depth	Addrix Matrix or (moist) % VYR 5/3 10 VYR 5/6 10	needed to docum <u>Color (</u> <u>No</u> <u>No</u> <u>No</u>	ent the indicator or Rec moist) % ne ne	r confirm the all dox Features 	bsence of indicat 2 ¹	ors.) 2	exture It Loam It Loam	Re	marks
Profile Description: (D Depth	Addrix Matrix or (moist)% JYR 5/30 JYR 5/6 D=Depletion RM=Re		ent the indicator or Rec moist) % ne ne Masked Sand Grain	r confirm the at dox Features 	bsence of indicat	ors.) 	exture It Loam It Loam	Rei	marks
Profile Description: (D Depth	Additix Matrix or (moist) % YR 5/3 10 YR 5/6 10 UYR 5/6 10 D=Depletion, RM=Re (Applicable to all L1		ent the indicator on Rec imoist) % ne ne me 	r confirm the at dox Features 	bsence of indicat	ors.) 2	exture	Rei	marks
Profile Description: (D Depth	Asscribe to the depth Matrix or (moist) % YR 5/3 10 YR 5/6 10 YR 5/6 10 DPDepletion, RM=Re (Applicable to all LI		ent the indicator on Rec moist) % ne ne ne end Masked Sand Grain wise noted.) Polyvalue Below	r confirm the at dox Features Type 	bsence of indicat	ors.) 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	exture It Loam g, M=Matrix. tors for Problema 1 cm Muck (A9) (LF	Rei tic Hydric Soils ¹	marks
Profile Description: (D Depth	Additix or (moist) % YR 5/6 10 YR 5/6 10 D=Depletion, RM=Re (Applicable to all Ll 2)	needed to docum	ent the indicator on Rec moist) % ne ne end Masked Sand Grain wise noted.) Polyvalue Below Thin Dark Surfac	r confirm the at dox Features Type 	bsence of indicat	ors.) 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	exture It Loam g, M=Matrix. tors for Problema 1 cm Muck (A9) (LF 2 cm Muck (A10) (L	Rei tic Hydric Soils ³ RR O) .RR S)	marks
Profile Description: (D Depth	pescribe to the depth Matrix or (moist) % DYR 5/6 10 DYR 5/6 10 DEDepletion, RM=Re (Applicable to all LI		ent the indicator on Rec (moist) % ne ne etasked Sand Grain wise noted.) Polyvalue Below Thin Dark Surfac Loamy Mucky Mi	r confirm the at dox Features Type 	bsence of indicat	ors.) 2 3 3 5 5 5 5 5 5 5 5 5 5 5	exture It Loam It Loam g, M=Matrix. tors for Problema 1 cm Muck (A9) (LF 2 cm Muck (A10) (L Reduced Vertic (F1	Rei tic Hydric Soils ¹ RR O) .RR S) 8) (outside MLR	<u>marks</u>
Profile Description: (D Depth	escribe to the depth Matrix or (moist) % DYR 5/3 10 DYR 5/6 10 D=Depletion, RM=Re		ent the indicator on Rec (moist) % ne ne etasked Sand Grain wise noted.) Polyvalue Below Thin Dark Surfac Loamy Mucky Mi Loamy Gleyed M	r confirm the at dox Features Type 	bsence of indicat	ors.) 2 3 3 5 5 5 5 5 5 5 5 5 5 5	exture It Loam It Loam g, M=Matrix. tors for Probleman 1 cm Muck (A9) (LF 2 cm Muck (A10) (L Reduced Vertic (F1 Piedmont Floodplai	Rei tic Hydric Soils ⁵ RR O) .RR S) 8) (outside MLR n Soils (F19) (LR	<u>marks</u>
Profile Description: (D Depth (inches) Col 0-2 11 2-16 10 ¹ Type: C=Concentration Hydric Soils Indicators: Histosol (A1) Histic Epipedon (A Black Histic (A3) Hydrogen Sulfide (Stratified Layers (/	esscribe to the depth Matrix or (moist) % DYR 5/3 10 DYR 5/6 10 D=Depletion, RM=Re	needed to docum	ent the indicator on Rec (moist) % ne ne etasked Sand Grain wise noted.) Polyvalue Below Thin Dark Surfac Loamy Mucky Mi Loamy Gleyed M Depleted Matrix (Dadau Park 200	r confirm the at dox Features Type 	bsence of indicat	ors.) 2 T Si Si Si Don: PL=Pore Linin Indica	exture It Loam It Loam g, M=Matrix. tors for Problema 1 cm Muck (A9) (LF Reduced Vertic (F1 Piedmont Floodplai Anomalous Bright L	Rei tic Hydric Soils ⁵ RR O) .RR S) (autside MLF n Soils (F19) (LR .oamy Soils (F20	<u>marks</u>
Profile Description: (D Depth (inches) Col 0-2 11 2-16 10 ¹ Type: C=Concentration Hydric Soils Indicators: Histosol (A1) Histic Epipedon (A Black Histic (A3) Hydrogen Sulfide (Stratified Layers (A Scra Mucha Minac	asscribe to the depth Matrix or (moist) % DYR 5/3 10 DYR 5/6 10 D=Depletion, RM=Re	needed to docum	ent the indicator on Rec moist) % ne ne etasked Sand Grain wise noted.) Polyvalue Below Thin Dark Surfac Loamy Mucky Mi Loamy Gleyed M Depleted Matrix (Depleted Park St	r confirm the at dox Features Type 	bsence of indicat	ors.) 2 T Si Si Si Don: PL=Pore Linin Indica	exture It Loam It Loam It Loam g, M=Matrix. tors for Problema 1 cm Muck (A9) (LF 2 cm Muck (A10) (L Reduced Vertic (F1 Piedmont Floodplai Anomalous Bright L (MLRA 153B) Bad Pacot Materia	Rei tic Hydric Soils ¹ RR O) .RR S) (autside MLF n Soils (F19) (LR .oamy Soils (F20)	<u>marks</u>
Profile Description: (D Depth (inches) Col 0-2 11 2-16 10 ¹ Type: C=Concentration Hydric Soils Indicators: Histosol (A1) Histic Epipedon (A Black Histic (A3) Hydrogen Sulfide (Stratified Layers (A Organic Bodies (A 5 cm Mucky Miner: Muck Presence (A	Addix Addix or (moist) % (YR 5/3 10 (YR 5/6 10 (YR 5/6 10 (YR 5/6 10 (D=Depletion, RM=Re (Applicable to all LI (Applicable to all LI (Applicable to all LI (Applicable to all LI (A) (LRR P, T, U) a) (LRR P, T, U) a) (LRR V)	needed to docum	ent the indicator on Rec moist) % ne ne etasked Sand Grain rwise noted.) Polyvalue Below Thin Dark Surfac Loamy Mucky Mi Loamy Gleyed M Depleted Matrix (Redox Dark Surf Depleted Dark Surfac Redox Deressio	r confirm the al dox Features 	bsence of indicat	ors.) 2 T Si Si Si On: PL=Pore Linin Indica	exture It Loam It Loam It Loam g, M=Matrix. tors for Problema 1 cm Muck (A9) (LF 2 cm Muck (A10) (L Reduced Vertic (F1) Piedmont Floodplai Anomalous Bright L (MLRA 153B) Red Parent Materia Verv Shallow Dark	Rei tic Hydric Soils ¹ TR O) 	marks
Profile Description: (D Depth (inches) Col 0-2 10 2-16 10 	Ascribe to the depth of Matrix or (moist)	needed to docum	ent the indicator or Rec moist) % ne ne enter enter enter enter enter enter enter enter enter model = 1 model = 1 mo	r confirm the al dox Features 	bsence of indicat	ors.) 2	exture It Loam It Loam It Loam g, M=Matrix. tors for Problema 1 cm Muck (A9) (LF 2 cm Muck (A9) (LF Reduced Vertic (F1) Piedmont Floodplai Anomalous Bright L MuRA 153B) Red Parent Materia Very Shallow Dark : Other (Explain in R	Rei tic Hydric Soils ¹ RR O) _RR S) (8) (outside MLF n Soils (F19) (LF .coamy Soils (F20 al (TF2) Surface (TF12) emarks)	marks
Profile Description: (D Depth (inches) Col 0-2 10 2-16 10 	Addix asscribe to the depth of Matrix or (moist)	needed to docum	ent the indicator or Rec moist) % ne ne Masked Sand Grain wise noted.) Polyvalue Below Thin Dark Surfac Loamy Mucky Mi Loamy Gleyed M Depleted Matrix (Redox Dark Surfa Depleted Matrix (Redox Dark Surfa Depleted Dark Surfac Depleted Dark Surfac Marl (F10) (LRR	r confirm the al dox Features 	bsence of indicat	ors.) 2	exture It Loam It Loam g, M=Matrix. tors for Problema 1 cm Muck (A9) (LF Reduced Vertic (T) Reduced Vertic (Mathematic Anomalous Bright L (MLRA 153B) Red Parent Materia Very Shallow Dark 3 Other (Explain in Reference)	Rei tic Hydric Soils ¹ RR O) LRR S) 8) (outside MLF 8) (outside MLF 8) (outside MLF 10, coamy Soils (F19) (LR 8) (outside MLF 20, coamy Soils (F12) surface (TF12) Surface (TF12) emarks)	marks
Profile Description: (D Depth (inches) Col 0-2 10 2-16 10 	Ascribe to the depth of Matrix or (moist)	needed to docum	ent the indicator or Rec moist) % ne ne -	r confirm the at dox Features 	bsence of indicat 	ors.) 2 3 3 3 3 3 3 3 3 3 3 3 3	exture	Rei tic Hydric Soils ¹ RR O) LRR S) 8) (outside MLF 8) (outside MLF n Soils (F19) (LR coamy Soils (F19) (LTF2) Surface (TF12) emarks) drophytic vegetat	marks
Profile Description: (D Depth (inches) Col 0-2 10 2-16 10 ¹ Type: C=Concentration Hydric Soils Indicators: Histosol (A1) Histic Epipedon (A Black Histic (A3) Hydrogen Sulfide (Stratified Layers (A Organic Bodies (A) 5 cm Muck Presence (A 1 cm Muck (A9) (L Depleted Below De Thick Dark Surface Coast Prairie Redd	Addix asscribe to the depth of Matrix or (moist)	needed to docum	ent the indicator on Rec moist) % ne ne 	r confirm the at dox Features 	bsence of indicat	ors.) 2	exture	Ren tic Hydric Soils ² RR O) LRR S) 8) (outside MLR AND Soils (F19) (LR Soils (F19) (LR Soils (F19) (LR Surface (TF12) emarks) drophytic vegetal be present, unles	marks
Profile Description: (D Depth (inches) Col 0-2 10 2-16 10 ¹ Type: C=Concentration Hydric Soils Indicators: Histosol (A1) Histic Epipedon (A Black Histic (A3) Hydrogen Sulfide (Stratified Layers (A Organic Bodies (A 5 cm Muck Presence (A 1 cm Muck (A9) (L Depleted Below De Thick Dark Surface Coast Prairie Red Sandy Mucky Mine	Addrix Matrix or (moist)	needed to docum	ent the indicator or Rec moist) % ne ne e	r confirm the at dox Features Type — — — — — — — — — — — — —	bsence of indicat	ors.) 2	exture	Ren tic Hydric Soils ² RR O) LRR S) 8) (outside MLF n Soils (F19) (LF .camy Soils (F20) II (TF2) Surface (TF12) emarks) drophytic vegetal be present, unles	marks
Profile Description: (D Depth (inches) Col 0-2 11 2-16 11 	Addix Addix or (moist)	needed to docum	ent the indicator on Rec moist) % ne ne end Masked Sand Grain wise noted.) Polyvalue Below Thin Dark Surfac Loamy Mucky Mi Loamy Gleyed M Depleted Matrix (Redox Dark Surfac Depleted Dark Surfac Marl (F10) (LRR Depleted Ochric Iron-Manganese Umbric Surface (Delta Ochric (F1' Reduced Vertic (Piedmont Floordo	r confirm the at dox Features Type 	bsence of indicat	ors.) 2	exture It Loam It Loam It Loam g, M=Matrix. tors for Probleman 1 cm Muck (A9) (LF Com Muck (A9) (LF 2 cm Muck (A10) (L Reduced Vertic (F1 Piedmont Floodplai Anomalous Bright L (MLRA 153B) Red Parent Materia Very Shallow Dark : Other (Explain in Ro ³ Indicators of hyy hydrology must t problematic.	Ren tic Hydric Soils ¹ RR O) JRR S) 8) (outside MLF n Soils (F19) (LF oamy Soils (F20) II (TF2) Surface (TF12) emarks) drophytic vegetal be present, unles	marks
Profile Description: (D Depth (inches) Col 0-2 10 2-16 10 	Addrix Matrix pr (moist)	needed to docum	ent the indicator on Rec moist) % ne ne 	r confirm the at dox Features Type 	bsence of indicat	ors.)	exture	Ren tic Hydric Soils' RR O) JRR S) 8) (outside MLF n Soils (F19) (LF .coamy Soils (F20) ul (TF2) Surface (TF12) emarks) drophytic vegetal be present, unles	marks
Profile Description: (D Depth (inches) Col 0-2 11 2-16 11 	Adtrix pr (moist)	needed to docum	ent the indicator on Rec moist) % ne ne 	r confirm the at dox Features Type 	bsence of indicat 2 ¹ Loc 	ors.)	exture	Ren tic Hydric Soils ¹ RR O) JRR S) 8) (outside MLF .coamy Soils (F20) II (TF2) Surface (TF12) emarks) drophytic vegetal be present, unles	marks
Profile Description: (D Depth (inches) Col 0-2 10 2-16 10 	Adrix Matrix or (moist)	needed to docum	ent the indicator on Rec moist) % ne ne 	r confirm the at dox Features Type 	bsence of indicat	ors.)	exture	Ren tic Hydric Soils ¹ RR O) _RR S) 8) (outside MLF n Soils (F19) (LR .coamy Soils (F20) ul (TF2) Surface (TF12) emarks) drophytic vegetal be present, unles	marks
Profile Description: (D Depth (inches) Col 0-2 10 2-16 10 -17ype: C=Concentration Hydric Soils Indicators: Histosol (A1) Histic Epipedon (A Black Histic (A3) Hydrogen Sulfide (Stratified Layers (# Organic Bodies (A) 5 cm Mucky Miner Muck Presence (A 1 cm Muck (A9) (L Depleted Below Da Thick Dark Surface Coast Prairie Redd Sandy Gleyed Matt Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Restrictive Layer (if obs Type:	Addix Matrix or (moist)	needed to docum	ent the indicator or Rec moist) % ne ne etasked Sand Grain wise noted.) Polyvalue Below Thin Dark Surfac Loamy Mucky Mi Loamy Gleyed M Depleted Matrix (Redox Dark Surfa Comy Gleyed M Depleted Dark Surface (Marl (F10) (LRR Depleted Ochric Iron-Manganese Umbric Surface (Delta Ochric (F1 Reduced Vertic (Piedmont Floodp Anomalous Brigh	r confirm the at dox Features Type 	bsence of indicat 2 ¹ Loc 	ors.) 2 T Si Si Si Dn: PL=Pore Linin Indica	exture	Rei tic Hydric Soils ¹ RR O) RR S) 8) (outside MLF n Soils (F19) (LR .camy Soils (F20 al (TF2) Surface (TF12) emarks) drophytic vegetal be present, unles	marks
Profile Description: (D Depth (inches) Col 0-2 11 2-16 10 	Addix Matrix or (moist)	needed to docum	ent the indicator or Rec moist) % ne ne Masked Sand Grain wise noted.) Polyvalue Below Thin Dark Surfac Loamy Mucky Mi Loamy Gleyed M Depleted Matrix (Redox Depressic Marl (F10) (LRR Depleted Oark SI' Redox Depressic Marl (F10) (LRR Depleted Ochric Iron-Manganese Umbric Surface (Delta Ochric (F1' Reduced Vertic (Piedmont Floodp Anomalous Brigh	r confirm the at dox FeaturesType	bsence of indicat 2 ¹ Loc 	ors.) 2 T Si Si Si Difference Si	exture	Ren tic Hydric Soils ¹ RR O) RR S) 8) (outside MLF n Soils (F19) (LR Surface (TF12) surface (TF12) drophytic vegetal be present, unles	marks
Profile Description: (D Depth (inches) Col 0-2 11 2-16 10 	Addix pr (moist) % (Matrix pr (moist) % (Matrix) %	needed to docum	ent the indicator or Rec moist) % ne ne Masked Sand Grain wise noted.) Polyvalue Below Thin Dark Surfac Loamy Mucky Mi Loamy Gleyed M Depleted Matrix (Redox Depressic Marl (F10) (LRR Depleted Ochric Iron-Manganese Umbric Surface (Delta Ochric (F1 Reduced Vertic (Piedmont Floodp Anomalous Brigh	r confirm the at dox Features Type 	bsence of indicat	ors.) 2 T Si Si Si Difference Si	exture	Ren tic Hydric Soils ¹ RR O) LRR S) 18) (outside MLF n Soils (F19) (LF 10) (outside MLF 10) (o	marks
Profile Description: (D Depth (inches) Col 0-2 11 2-16 10	asscribe to the depth i Matrix or (moist) % DYR 5/3 10 DYR 5/6 10 D=Depletion, RM=Re (Applicable to all LI (Applicable to all LI 2) A4) .5) 5) (LRR P, T, U) (A) (LRR P, T, U) al (A7) (LRR P, T, U) (A12) xr (A16) (MLRA 150A) ral (S1) (LRR O, S) rix (S4) :) (LRR P, S, T, U) :	needed to docum	ent the indicator or Rec moist) % ne ne Masked Sand Grain wise noted.) Polyvalue Below Thin Dark Surfac Loamy Mucky Mi Loamy Gleyed M Depleted Matrix (Redox Dark Surfac Marl (F10) (LRR Depleted Dark Si Redox Depressic Marl (F10) (LRR Depleted Ochric Iron-Manganese Umbric Surface (Delta Ochric (F1 Reduced Vertic (Piedmont Floodp Anomalous Brigh	r confirm the at dox Features Type 	bsence of indicat	ors.) 2 3 3 3 3 3 3 3 3 3 3 3 3	exture	Ren tic Hydric Soils ¹ RR O) LRR S) (8) (outside MLF n Soils (F19) (LF 0.0000 Soils (F20) (1 (TF2) Surface (TF12) emarks) drophytic vegetat be present, unles Mo	marks

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

GEIAIIUN (FIVE Strata) - Use scientific name	es of plants.			Sampling Point:	UP23
	Absolute % cover	Dominant Species	Indicator Status	Dominance Test worksheet:	
ree Stratum (Plot size: 30 ft.)				Number of Dominant Species	
. Prunus serotina	40	Yes	FACU	That Are OBL, FACW, or FAC: 4	(A)
. Pinus taeda	15	Yes	FAC		
. Quercus stellata	10	No	UPL	Total Number of Dominant	
. Quercus nigra	10	No	FAC	Species Across All Strata: 8	(B)
. Ostrya virginiana	5	No	FACU		
Celtis laevigata	5	No	FACW	Percent of Dominant Species	
	85	= Total Cover		That Are OBL, FACW, or FAC: 50%	(A/B
50% of total cover	42.5	20% of total cover:	17		
poling Stratum (Plot size: 20 ft)				Prevalence Index Worksheet:	
Quercus stellata	5	Yes	LIPI	Total % Cover of:	ultiply by:
	3	Vec	FAC		0
		Vec	FACU	EACW species 5 x 2 =	10
Jumperus virginiana		165	1400	FAC species 46 x 3 =	138
				FACU species 49 x 4 =	196
				IPL species 15 x 5 =	75
	10	Total Cover		Column Totals: 115 (A)	419
50% of total cover	: 5	20% of total cover:	2		415
rub Stratum (Plot size: 30 ft.)				Prevalence Index = B/A =	3.64
Juniperus virginiana	2	Yes	FACU		
				Hydrophytic Vegetation Indicators:	
		·	<u> </u>	1 - Rapid Test for Hydrophytic Vegetation	
			<u> </u>		
				3 - Prevalence index is 3.0	
		T 1 10	<u> </u>		
50% (111)	=	= Total Cover			
50% of total cover	: 1	20% of total cover:	0.4	indicators of hydric soil and wetland hydrology must	
orb Stratum (Distaize: 20 ft.)				be present, unless disturbed or problematic.	
Chasmanthium sessiliflorum	15	Yes	FAC	Definitions of Five Vegetation Strata:	
Lackeya multiflora	1	<u></u> No	FAC	Seminoris of the vegetation of ala.	
Campsis radicans	1	No	FAC	Tree - Woody plants, excluding woody vines	
	<u>'</u>	110	FAC	approximately 20 ft (6m) or more in height and 2 in	
				(7.6 cm) or larger in diameter at breast height (DPH)	
				(7.0 cm) of larger in dameter at breast height (DBH).	
				Sapling - Woody plants, excluding woody vines,	
		·		approximately 20 ft (6 m) or more in height and less	
		·	<u> </u>	than 3 in. (7.6 cm) DBH.	
		·	<u> </u>		
			<u> </u>	Shrub - Woody plants, excluding woody vines	
	47	T 1 10	<u> </u>	approximately 3 to 20 ft (1 to 6 m) in height	
	=	= Total Cover			
	: 8.5	20% of total cover:	3.4	Herb - All herbaceous (non-woody) plants, including	
50% of total cover				nerb / anterbaccous (nen woody) plants, moldaling	
50% of total cover				herbaceous vines, regardless of size, and woody	
50% of total cover			510	herbaceous vines, regardless of size, and woody	
50% of total cover <u>oody Vine Stratum</u> (Plot size: <u>30 ft.</u>) <u>Smilax rotundifolia</u>	1	Yes	FAC	herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately 2 ft (1 m) in baints	
50% of total cover <u>body Vine Stratum</u> (Plot size: <u>30</u> ft.) <u>Smilax rotundifolia</u>	1	Yes	FAC	herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately 2 ft (1 m) in height.	
50% of total cover <u>body Vine Stratum</u> (Plot size: <u>30 ft.</u>) <u>Smilax rotundifolia</u>		Yes	FAC	herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately 2 ft (1 m) in height.	
50% of total cover <u>oody Vine Stratum</u> (Plot size: <u>30 ft.</u>) <u>Smilax rotundifolia</u>		Yes	FAC	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.	
50% of total cover oody Vine Stratum (Plot size:) Smilax rotundifolia		Yes	FAC	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.	
50% of total cover loody Vine Stratum (Plot size:) Smilax rotundifolia		Yes	FAC	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 Versetation	
50% of total cover loody Vine Stratum (Plot size:30 ft) . Smilax rotundifolia		Yes Total Cover 20% of total cover:	FAC	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 Brecent? Yes Ma	

No positive indication of hydrophytic vegetation was observed (≥50% of dominant species indexed as FAC- or drier).

			A STREETWORKS AND A STREET	
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Jackson, Rankin County.	80 210	240	300	330
MS				
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	and the second			Mark Lawrence
Description:				
Wetland determination				
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west.				
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			BOD AN	unony Parkway
	DP25		07-13-20	23, 2:08:18 PM

Site: Bob Anthony Parkway Relocation						
Location:	N NE 60 E 50 SE 150					
MS						
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Date: 07/13/2023	YHELL BULLES					
Description: Wetland determination						
Data Point 25 looking east.						
	DP25 Bob Anthony Parkway 07-13-2023, 2:08:27 PM					

Other Waters of the U.S. Field Data Sheets and Photos

Project: Bob Anthony Parkwa	ay Relocation	City/County/State: Jacks	son, Madison County, Mississippi			
Investigator(s): Savannah R. Morales, Bettie Shoemaker		Lat: 32.40232721 Long: -90.07507386	Sample Location ID: OW1			
Applicant/Owner: MS Department of TransportationDate:07/12/2023			07/12/2023			
Reason for Survey: Wetland	1 Delineation					
River Basin/HUC Number	:031800020601	Tributary Name (if kn	own): Unknown stream			
Size of Watershed: 20,913.	58 Acres	Noorost TNW.				
Size of Drainage Area: 0.48	Acres	Pearl Riv	/er			
	Tributory subsystem.					
	Ephemeral	✓ Intermittent	Perennial			
TRIBUTARY	Tributary flows directly into a TNW? Explain: No, tributary flows into oxbows and lakes before reaching TNW.					
CHARACTERIZATION	Distance to nearest TNW: River Miles: 16,000 A	erial Miles: 3,800	_			
	Tributary flows southwest into a series of oxbow depressions and Describe flow route to TNW: lakes before draining into the Pearl River .					
	Tributary is (natural / artificial / manipulated): Natural/manipulated Explain:					
	Land draining into tri	butary is manipulated by Ro	ss Barnette Reservoir.			
WEATHER CONDITIONS	Current: □rain (steady rain) ✓ showers (intermittent) □cloud cover 100 (%) □clear/ sunny air temperature: 82 (°F)	Has there been hea Average Rainf	wy rain in the last 7 days? Yes all:0.35 (in.)			
	Comment: Rainfall data is in inches/day for 7/4/2023 - 7/11/2023 from station US1MSHD0018 in Jackson (32.383628 -90.136259) and retrieved from NOAA Climate Data Online.					
	Predominant surrounding l	anduse:				
WATERSHED	✓ Forest □ Co	mmercial \checkmark O	ther (Explain):			
FEATURES	Field/Pasture	lustrial Ross	Barnett Reservoir levee toe.			
	Agricultural Re	esidential				

TRIBUTARY FEATURES	Estimated reach length: 164 (ft.) Estimated channel width: 15 (ft.) Estimated channel depth: 1 (ft.) Estimated slope of banks: Substrate: scartical 24 - 24 - 24 - 24 - 24 - 24 - 24 - 24 -
TRIBUTARY CONDITION	vertical 2:1 3:1 4:1 greater sand cobble silt gravel Image: State of the state of
	Explain: Stable gentle slopes. Riffle / Run / Pool complex: No Explain:
FLOW CONDITIONS	 Tributary geometry (relatively straight, meandering, other): Explain: Meandering Current flow is (discrete, confined, overland sheet flow, etc): Explain: Discrete, defined bed and bank, but overland flow is common.
	Average flow events per year:
VEGETATION	Approximate width of riparian buffer: 20 (ft.) Dominant species present (top bank / buffer): Nyssa aquatica Aquatic vegetation present: No Comment: No vegetation within channel.



Site: Bob Anthony Parkway Relocation

Location: Jackson, Madison County, MS

Photo No: 50

Date: 07/12/2023

Description: Other Water Assessment Point OW1 looking southwest.



Project: Bob Anthony Parkwa	ay Relocation	City/County/State: Jackson, Rankin County, Mississippi				
Investigator(s): Savannah R. Morales, Bettie Shoemaker		Lat: 32.39448592 Long: _90.0621993	5	Sample Location ID: OW2		
Applicant/Owner: MS Dep	artment of Transportation	Date:	07	//12/2023		
Reason for Survey: Wetland	1 Delineation					
River Basin/HUC Number	:031800020601	Tributary Name	(if known): U	nknown stream		
Size of Watershed: 20,913.	58 Acres	Nearest TNW•				
Size of Drainage Area: 0.69) Acres	Pe	earl River			
	Tributary subsystem:					
	Ephemeral	Intermittent	~	Perennial		
TDIDUTADV	Tributary flows directly into a TNW? Explain: No					
CHARACTERIZATION	Distance to nearest TNW: River Miles: 2,200 A	erial Miles: 1,3	.00			
	Describe flow route to TNW: Flow starts in ditches northeast of site, past a rock damn, south connecting to another tributary, then northwest into the Pearl River.					
	Tributary is (natural / artificial / manipulated): Manipulated					
	Flow is manipulated b	by Ross Barnett Reser	rvoir, rock dam	where ditches drain into stream		
WEATHER CONDITIONS	Current: □rain (steady rain) ✓ showers (intermittent) ✓ cloud cover 50 (%) □clear/ sunny air temperature: 87 (°F)	Has there be Average	en heavy rain Rainfall:(in the last 7 days? Yes		
	Comment: Rainfal data is presented in inches/day for 7/4/2023 - 7/11/2023 from station US1MSHD0018 in Jackson, MS (32.383628 -90.136259) and retreived from NOAA					
	Predominant surrounding la	anduse:				
WATEDSHED	✓ Forest □ Co	mmercial	✔ Other (Ex	plain):		
FEATURES	Field/Pasture Inc	lustrial	Immediate vic Ross Barnett F	inity is forest and mowed edge of Reservoir levee toe.		
		esidential				



Site: Bob Anthony Parkway Relocation						
Location: Jackson, Rankin County, MS						
Photo No: 52						
Date: 07/12/2023						
Description: Other Water Assessment Point OW2 looking north.						

	Estimated reach length: 380 (ft.)							
	Estimated channel width: 8 (ft.)							
TRIBUTARY	Dam present: No							
FEATURES	Estimated channel depth: 1 (ft.)							
	Estimated slope of banks: Substrate:							
	vertical 2:1 3:1 4:1 greater sand cobble silt gravel							
TRIBUTARY CONDITION	Tributary has (defined bed and banks / OHWM): Explain: Gently banks Bank stability (highly eroded, sloughing banks, etc): Explain: Stable, overland sheet-flow common Riffle / Run / Pool complex: No Explain: Riffles present at rock dam.							
FLOW CONDITIONS	Tributary geometry (relatively straight, meandering, other): Explain: Meandering Current flow is (discrete, confined, overland sheet flow, etc): Explain: Discrete during low water, overland withing wetland during high flow Average flow events per year:							
	Approximate width of riparian buffer: 20 (ft.)							
	Dominant species present (top bank / buffer):							
	Taxodium distichum							
VECETATION								
, EGEIAHON	Aquatic vegetation present: No							
	Comment: Aquatic vegetation not present in stream channel, but present in adjacent wetland buffer.							

Project: Bob Anthony Parkwa	Project: Bob Anthony Parkway Relocation			kin County, Mississippi		
Investigator(s): Savannah R. Morales, Bettie Shoemaker		Lat: 32.40232721 Long: _90.0750738	.6	Sample Location ID: OW3		
Applicant/Owner: MS Dep	artment of Transportation	Date:	07	7/12/2023		
Reason for Survey: Wetland	1 Delineation					
River Basin/HUC Number	:: 031800020601	Tributary Name	(if known): U	nknown stream		
Size of Watershed: 20,913.5	58 Acres	Noorost TNW.				
Size of Drainage Area:~0.5	07 Acres	Pe	earl River			
	Tributary subsystem:					
	Ephemeral	Intermittent	v	Perennial		
TRIBUTARV	Tributary flows directly into a TNW? Explain: _{No}					
CHARACTERIZATION	Distance to nearest TNW: River Miles: 2,700 Aerial Miles: 1,500					
	Describe flow route to TNW: Tributary is an oxbow flowing south into another tributary then northeast into the Pearl River.					
	Tributary is (natural / artificial / manipulated): Natural/Manipulated					
	Tributary starts as a d	rainage ditch along th	ne levee then con	nnects into a natural oxbow.		
WEATHER CONDITIONS	Current:rain (steady rain)showers (intermittent)cloud cover 35 (%)clear/ sunnyair temperature: 92 (°F)	Has there be Average	en heavy rain Rainfall: <u>(</u>	in the last 7 days? Yes		
	Comment: Rainfall data is in inches/day for 7/4/2023 - 7/11/2023 from station US1MSHD0018 in Jackson, MS (32.383628 -90.136259) and retrieved from NOAA Climate Data Online.					
	Predominant surrounding la	anduse:				
WATEDSHED	✓ Forest □ Co	mmercial	✓ Other (Ex	plain):		
FEATURES	Field/Pasture Inc	lustrial	Immediate vic Ross Barnett F	inity is forest and mowed edge of Reservoir levee toe.		
	Agricultural Re	esidential				

TRIBUTARY FEATURES	Estimated reach length: 438 (ft.) Estimated channel width: 10 (ft.) Estimated channel depth: 3.5 (ft.) Estimated slope of banks: vertical 2:1 3:1 4:1 greater Image: Vertical 2:1 3:1 4:1 greater Substrate: Substrate: sand cobble silt gravel Image: Vertical 2:1 3:1 4:1 greater Image: Vertical 2:1 3:1 4:1 greater				
TRIBUTARY CONDITION	Tributary has (defined bed and banks / OHWM): Explain: No defined bed and banks. Tributary is an oxbow with a gradient riparian buffer. Bank stability (highly eroded, sloughing banks, etc): Explain: Stable Riffle / Run / Pool complex: No Explain:				
FLOW CONDITIONS	Tributary geometry (relatively straight, meandering, other): Explain: Meandering Current flow is (discrete, confined, overland sheet flow, etc): Explain: Discrete Average flow events per year:				
VEGETATION	Approximate width of riparian buffer: 30-50 total width (ft.) Dominant species present (top bank / buffer): Taxodium distichum Aquatic vegetation present: Yes Comment: This oxbow is a cypress swamp draining the ditches from the north.				





Project: Bob Anthony Parkway Relocation		City/County/State: Jackson, Mississippi		
Investigator(s): Savannah R. Morales, Bettie Shoemaker		Lat: 32.40232721 Long: -90.07507386	Sample Location ID: OW4	
Applicant/Owner: MS Depa	artment of Transportation	Date:	07/12/2023	
Reason for Survey: Wetland	l Delineation			
River Basin/HUC Number	:031800020601	Tributary Name (i	if known): Unknown stream	
Size of Watershed: 20,913.58 Acres Size of Drainage Area:~0.16 Acre		rl River		
	Ephemeral	Intermittent	Perennial	
TRIBUTARY CHARACTERIZATION	Explain: No. Distance to nearest TNW:			
	River Miles: 2,800 Aerial Miles: 1,500 This ephemeral stream drains into OW3 during precipitation events. Describe flow route to TNW: This flow regime does not meet the criteria for juristitional OW.			
	Tributary is (natural / artificial / manipulated): Natural Explain: Flow is manipulated by Ross Barnett Reservoir			
WEATHER CONDITIONS	Current: rain (steady rain) showers (intermittent) cloud cover 70 (%) clear/ sunny air temperature: 88 (°F)			
Comment: Rainfal data is presented in inches/day for 7/4/2023 - 7/11/2023 from station US1MSHD0018 in Jackson, MS (32.383628 -90.136259) and retreived from NC Climate Data Online				
	Predominant surrounding la	anduse:		
WATERSHED	☞ Forest □ Co	mmercial [Other (Explain):	
FEATURES	Field/Pasture Inc	lustrial	Immediate vicinity is forest and mowed edge of Ross Barnett Reservoir levee toe.	
	Agricultural Re	sidential		

TRIBUTARY FEATURES	Estimated reach length: 375 (ft.) Estimated channel width: 20 (ft.) Estimated channel depth: 1 (ft.)				
	Estimated slope of banks: Substrate: vertical 2:1 3:1 4:1 greater sand cobble silt gravel Image: Substrate: Image: Substrate: Image: Substrate: Image: Substrate: Image: Substrate:				
TRIBUTARY CONDITION	Tributary has (defined bed and banks / OHWM): Explain: High slopes Bank stability (highly eroded sloughing banks, etc.):				
	Bank stability (inginy croded, sloughing banks, etc). Explain: Banks are high, but somewhat vegetated. Riffle / Run / Pool complex: No Explain: No water present.				
FLOW CONDITIONS	Tributary geometry (relatively straight, meandering, other): Explain: Meandering				
	Current flow is (discrete, confined, overland sheet flow, etc): Explain: Discrete Average flow events per year:				
	Approximate width of riparian buffer: 0 (ft.)				
	Dominant species present (top bank / buffer): Paw paw trees (Asimina triloba) dominate the top of banks.				
VEGETATION	Aquatic vegetation present: No Comment: No vegetation within stream channel.				



Site: Bob Anthony Parkway Relocation				
Location: Jackson, Rankin County, MS				
Photo No: 56				
Date: 07/13/2023				
Description:				
Point OW4 looking east.				

Project: Bob Anthony Parkway Relocation		City/County/State: Jackson, Mississippi			
Investigator(s): Savannah R. Morales, Bettie Shoemaker		Lat: 32.40232721 Long: _90.07507386	Sample Location ID: OW5		
Applicant/Owner: MS Depa	artment of Transportation	Date: 0	7/13/2023		
Reason for Survey: Wetland	l Delineation				
Kiver Dasin/110C Number	• 031800020601	r i i butai y ivanic (ii known). p	elahatchie Creek		
Size of Watershed: 20,913.5	58 Acres				
Size of Drainage Area:~ ^{0.8}	33 Acre	Nearest TNW: Pearl River			
	Tributary subsystem:				
	Ephemeral	Intermittent	Perennial		
	Tributary flows directly into a TNW? Explain:				
TRIBUTARY CHARACTERIZATION	Distance to nearest TNW: River Miles: 7,800 Aerial Miles: 4,800 Tributary flows from upstream ditches, through the project area Describe flow route to TNW: northwest to the Pearl River				
	Tributary is (natural / artificial / manipulated): Monipulated				
	Explain: Flow is manipulated by Ross Barnett Reservoir				
WEATHER CONDITIONS	Current: rain (steady rain) showers (intermittent) showers (intermittent) cloud cover75(%) sterme been heavy rain in the last 7 days? Yes clear/ sunny Average Rainfall:0.35 (in.) air temperature:90 (°F) Average Rainfall:1.35 (in.)				
	Comment: Rainfal data is presented in inches/day for 7/4/2023 - 7/11/2023 from station US1MSHD0018 in Jackson, MS (32.383628 -90.136259) and retreived from NOAA Climate Data Online				
	Predominant surrounding la	anduse:			
	✓ Forest Co	mmercial Other (Ex	xplain):		
WATERSHED FEATURES	Field/Pasture Inc	Immediate vic Iustrial Ross Barnett I	inity is forest and mowed edge of Reservoir levee toe.		
	Agricultural Re	sidential			

TRIBUTARY FEATURES	Estimated reach length: 417 (ft.) Estimated channel width: 2.5 (ft.) Estimated channel depth: 0.5 (ft.) Estimated slope of banks: Substrate: vertical 2:1 3:1 4:1 greater sand cobble silt gravel				
TRIBUTARY CONDITION	 Tributary has (defined bed and banks / OHWM): Explain: Bed and banks are defined outside of the forest within the ditches, but definition becomes less distinct within the forest. Bank stability (highly eroded, sloughing banks, etc): Explain: Stable low slopes Riffle / Run / Pool complex: No Stable low slopes 				
FLOW CONDITIONS	Tributary geometry (relatively straight, meandering, other): Explain: Meandering Current flow is (discrete, confined, overland sheet flow, etc): Explain: Discrete Average flow events per year:				
VEGETATION	Approximate width of riparian buffer: 20 each side (ft.) Dominant species present (top bank / buffer): Taxodium distichum and Saururus cernuus Aquatic vegetation present: Yes Yes Comment: Taxodium distichum present in the adjacent riparian buffer.				





Project: Bob Anthony Parkway Relocation		City/County/State: Jackson, Rankin County, Mississippi			
Investigator(s): Savannah R. Morales, Bettie Shoemaker		Lat: 32.40232721 Long: _90.07507386	Sample Location ID: OW6		
Applicant/Owner: MS Dep	artment of Transportation	Date: 0	07/13/2023		
Reason for Survey: Wetland	1 Delineation				
River Basin/HUC Number	:031800020601	Tributary Name (if known):	Jnknown stream		
Size of Watershed: 20,913.	58 Acres	Nearest TNW.			
Size of Drainage Area:~1.0)	Pearl River			
	Tributary subsystem:				
	Ephemeral	Intermittent	, Perennial		
TDIDUTADV	Tributary flows directly into a TNW? Explain: _{No}				
CHARACTERIZATION	Distance to nearest TNW: River Miles: 6,600 Aerial Miles: 4,739 Tributary flows northwest into OW5, which then flows northeast and Describe flow route to TNW:drains into the Pearl River.				
	Tributary is (natural / artificial / manipulated): Artificial Explain: This tributary is an artificial drainage ditch.				
WEATHER CONDITIONS	Current: □ □ rain (steady rain) □ □ showers (intermittent) □ □ cloud cover 50 (%) □ □ clear/ sunny Average Rainfall: 0.35 (in.) air temperature: 88 (°F) •				
	Comment: Rainfal data is presented in inches/day for 7/4/2023 - 7/11/2023 from station US1MSHD0018 in Jackson, MS (32.383628 -90.136259) and retreived from NOAA Climate Data Online				
	Predominant surrounding landuse:				
WATERSHED	✓ Forest Co	mmercial I mmediate vi	xplain):		
FEATURES	Field/Pasture	lustrial Ross Barnett	Reservoir levee toe.		
	Agricultural Re	sidential			

	Estimated reach length:	714	(ft.)		
	Estimated channel width:	2-3	(ft.)	Channelized: No	
TRIBUTARY FEATURES	Estimated channel depth:	0.5	(ft.)	Dam present: No	
	Estimated slope of banks: vertical 2:1 3:1 4:1	greater	ł	Substrate: sand cobble silt gravel	
TRIBUTARY CONDITION	Tributary has (defined bed an Explain: Bed and banks are defined banks are defined banks are defined. Bank stability (highly eroded, Explain: Stable	d banks / OF nded. sloughing ba	IWM): anks, etc):		
	Riffle / Run / Pool complex: No Explain:				
FLOW	Tributary geometry (relatively straight, meandering, other): Explain: Meandering				
CONDITIONS	 Current flow is (discrete, confined, overland sheet flow, etc): Explain: Flow is discrete within the defined bed and banks, but overland flow during times of high water is confined to the ditch slopes. Average flow events per year: 				
	Approximate width of riparia	an buffer: <u>20</u>)	(ft.)	
	Dominant species present (top bank / buffer): <i>Taxodium distichum and Saururus cernuus</i>				
VEGETATION	Aquatic vegetation present:				
	Comment: Taxodium distichum is present in the riparian buffer. Minimal (2% coverage) Saururus cernuus present within the stream channel.				



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Appendix C — **Background Information**

Soils Map, National Hydrography Dataset Map, National Wetlands Inventory Map, National Land Cover Database Map

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	Spillway Ra	
Prashear Creek		Spilleray Re
Delineation Boundary (70.35 Acres) Cascilla-Arkabutla association, frequently flooded Cascilla-Calhoun association Water		A N
0 1,000 2,000 Feet Coordinate System: NAD 1983 State Plane	MISSISSIPPI DEPARTMENT OF TRANSPORTATION Madison and Rankin Counties, Mississippi	CYPRESS Environment & Infrastructure
Mississippi East FIPS 2301 Feet	WEST SEGMENT SOILS MAP	Date: 7/25/2023 FIGURE C-1





Delineation Boundary (70.35 Acres) USA Wetlands Lacustrine Lacustrine Lacustrine Marine Palustrine Riverine		
0 2,000 4,000		
Feet	Madison and Bankin Counties Missississi	CIPRESS
Coordinate System: NAD 1983 State Plane		Environment & Infrastructure
Mississippi East FIPS 2301 Feet	INVENTORY MAP	Date: 7/25/2023 FIGURE C-4

	AND A CONSTRUCTION OF A CONSTR	
Delineation Boundary (70.35 Acres) 1/3 Arc-Second Contours 0 2,000 4,000 Feet Coordinate System: NAD 1983 State Plane Mississippi East FIPS 2301 Feet	MISSISSIPPI DEPARTMENT OF TRANSPORTATION Madison and Rankin Counties, Mississippi USGS NATIONAL ELEVATION DATASET MAP	CYPRESS Environment & Infrastructure Date: 7/25/2023 EIGURE C-5



Appendix D — Rainfall Data

Average rainfall data

Ridgeland, MS Average Rainfall by Month from 1991-2020. Station ID: US1MSMD0001



Source:	https://www.ncei.noaa.gov/access/us-climate-normals/#dataset=normals-
monthly	&timeframe=30&location=MS&station=US1MSMD0001

	MONDAY	July	• 2023	•	View	SATURDAY
SUNDAY		TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	
25		27	28			1
Mostly Sunny Actual: 94° 71°	Thunderstom Actual 91° 72°	m Mostly Cloudy Actual 92° 73°	Mostly Sunny Actual 96° 72°	Mostly Cloudy Actual 99° 78°	Foggy Actual 97° 77°	Mostly Sunny Actual: 96° 76°
0 in	0.33 in	0 in	€ 0.54 in	© in	0 in	<pre></pre>
Partly Cloudy Actual: 94° 79° © 0 in	Mostly Cloud Actual: 93° 76° 0 in	y Mostly Cloudy Actual: 94° 75° © 0 in	Mostly Cloudy Actual: 93° 74° © 0.82 in	Thunderstorm Actual: 92° 74° © 0.2 in	Mostly Cloudy Actual: 90° 74° © 0.13 in	Mostly Sunny Actual: 94° 75° © 0 in
	10	11	12	13	14	15
Mostly Cloudy Actual: 88° 75°	Cloudy Actual: 88° 74°	Mostly Cloudy Actual 90° 73°	Mostly Cloudy Actual: 91° 74°	Mostly Cloudy Actual: 92° 78°	Mostly Cloudy Actual: 94° 79°	Thunderstorm Actual: 92° 74°

Local weather from Weather Underground

Local weather reported from the Jackson-Medgar Wiley Evers International Airport Station for July 1 through July 15, 2023.

Source: <u>http://www.wunderground.com/</u>

Wets Tables for Jackson International Airport Source: <u>http://agacis.rcc-acis.org/?fips=28121</u>