Appendix G: Wetland and Stream Assessment

WETLAND AND OTHER WATERS ASSESSMENT REPORT

US 11 Widening

Forrest and Lamar counties, MS

Project Number STBG-9339-00(012) & STBG-9339-00(013)

FMS Number 109496-104100/105100

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MDOT
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

Executive Summary

The Mississippi Department of Transportation (MDOT) is proposing to widen U.S. Highway 11 (US 11) between Interstate 59 (I 59) and Old Okahola Road in Forrest and Lamar counties, Mississippi. (Sections 06 and 07 – Township 3N – Range 13W and Sections 12, 13, 23 and 24 – Township 3N – Range 14W).

Based upon the site inspections, a total of 17 wetlands (6.21 acres), 26 reaches of other waters (11,914 LF), and two ponds (0.80 acres) are found in the study corridor. Of these, 14 wetlands (4.77 acres), 12 other waters (8,491 LF), and one pond (0.02 acres) are considered potentially jurisdictional. The wetlands were classified as palustrine emergent (PEM) and palustrine forested (PFO). Other waters were classified as perennial, intermittent, and ephemeral. The ponds were classified as palustrine unconsolidated bottom (PUB). These areas should be considered potentially jurisdictional until concurrence is given by a representative of the U.S. Army Corps of Engineers (USACE).

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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). The delineation was conducted by Wilson Harper of Garver during two site visits: January 29-30, 2026, and February 10, 2026. 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 improvements begin at the intersection of Old Okahola Road and US 11 in Lamar County and extend north on US 11 to approximately 0.6 miles south of the intersection with Interstate 59 in Forrest County (Sections 06 and 07 – Township 3N – Range 13W and Sections 12, 13, 23 and 24 – Township 3N – Range 14W). See Figures 1-4 for more detailed location information. Work will take place within seven sites (Figure 3) to widen and improve US 11.

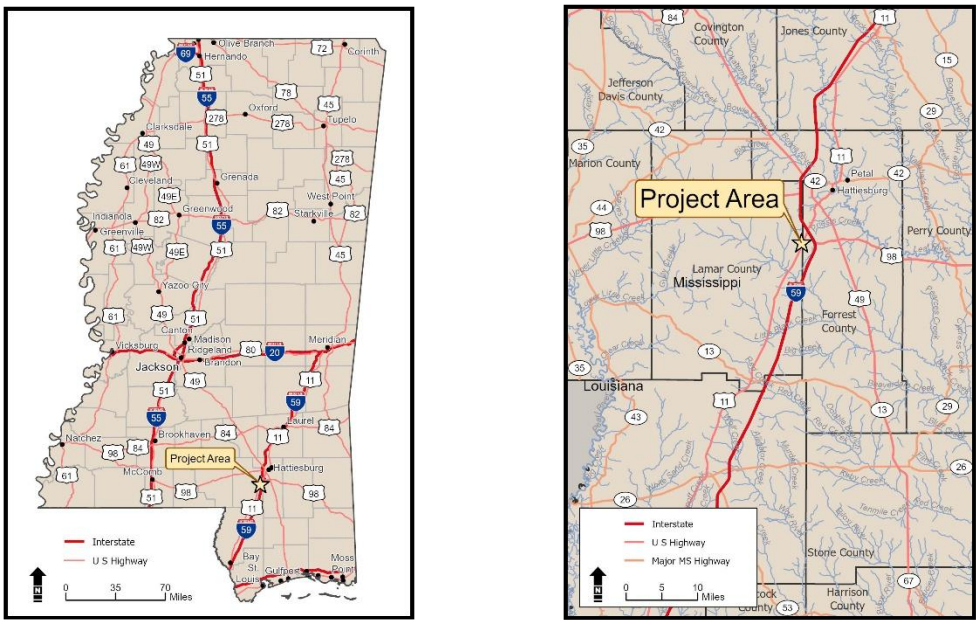


Figure 1. State and County Maps.

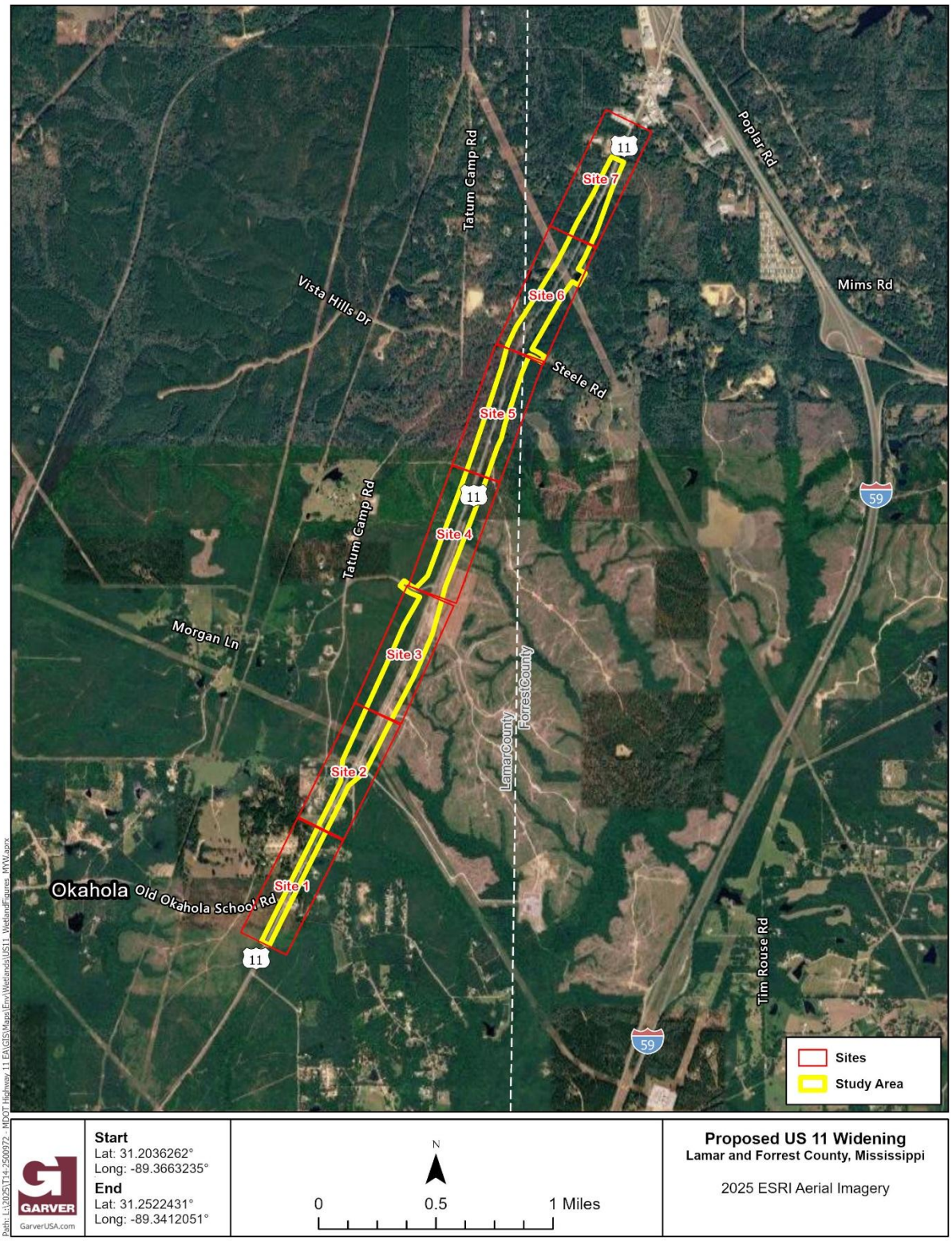


Figure 2. 2025 Aerial Photography for Project Area.

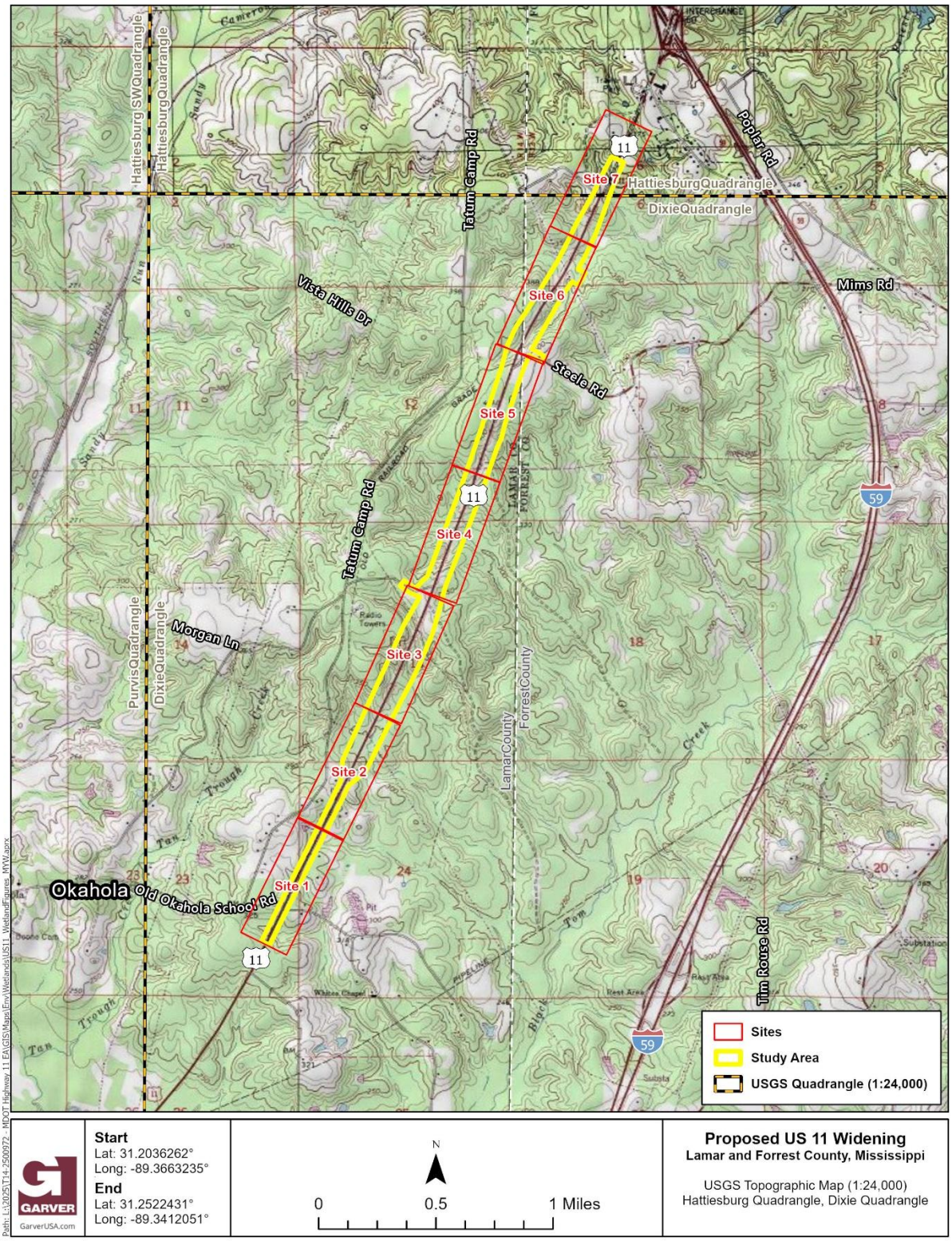


Figure 3. USGS Topographic Map for Project Area

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 software (ArcGIS Pro 3.6) 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 2025 ESRI aerial photographs. See Appendix C for maps showing soils, topography, and the national wetland inventory. Two site visits were conducted to record relevant data on potentially jurisdictional areas for the purposes of CWA and/or RHA permitting. The first site visit occurred on January 29 and 30, 2026 and the second occurred on February 10, 2026.

Construction is proposed at seven sites (Sites 1-7) which were assessed for potentially jurisdictional areas during the site visit and are described in this document. 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. Tributary assessment locations are marked with a “CA” (Channel Assessment). Photographs were taken up and down gradient at each OW assessment site.

After field work was completed, data was entered into GIS software (ArcGIS Pro 3.6), potentially jurisdictional other waters 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

Based upon the site inspections, a total of 17 wetlands (6.21 acres), 26 reaches of other waters (11,914 LF), and two ponds (0.80 acres) are found in the study corridor. Of these, 14 wetlands (4.77 acres), 12 other waters (8,491 LF), and one pond (0.02 acres) are considered potentially jurisdictional. All potentially jurisdictional areas should be considered preliminary prior to confirmation by the USACE Regulatory Branch. Findings are described in Chapter 4 and Tables 1, 2, and 3.

Landscape Setting

Terrain in the project area is mostly forested with undulating hills and valleys. It is characterized by longleaf pine plantations, bottomland hardwood forest, upland forest, maintained right-of-way, streams, and wetlands. The project is located in the Gulf Coastal Plain (133) 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 roadways, mixed forest, silviculture, and rural residential development. Some commercial and industrial development is also present, with increased development expected in the future. Appendix C includes Soil Survey Data, Elevation Maps, and Land Use Maps.

Hydrology

Precipitation conditions were drier than normal for the area according to the USACE's Antecedent Precipitation Tool (see Appendix D) during both site visits. The nearest weather station is located in Hattiesburg, MS. Weather data for the project area indicated 0.18 inches of precipitation in the week before the first site visit (January 29-30, 2026) and 0.0 inches of precipitation in the week before the second site visit (February 10, 2026). Hydrology in the area consists of streams and wetlands as a result of groundwater springs, stormwater runoff, water table, and floodplains. During the delineations, water in the tributaries was flowing below the observable Ordinary High Water Mark (OHWM).

Vegetation

Plant communities in the project area included pine plantations, wooded riparian, bottomland, and upland areas as well as herbaceous areas. Wooded riparian and bottomland areas

included sweetbay (*Magnolia virginiana*), tulip tree (*Liriodendron tulipifera*) *red* maple (*Acer rubrum*), wax myrtle (*Morella cerifera*), yaupon holly (*Ilex vomitoria*), gallberry (*Ilex glabra*), sweet-gum (*Liquidambar styraciflua*), and water oak (*Quercus nigra*). Upland wooded areas included longleaf pine (*Pinus palustris*), loblolly pine (*Pinus taeda*), southern red oak (*Quercus falcata*), water oak, red maple, and yaupon holly. Herbaceous vegetation included clustered beaksedge (*Rhynchospora glomerata*), long-leaf wood-oats (*Chasmanthium sessiliflorum*), and common rush (*Juncus effusus*). Common vines included roundleaf greenbriar (*Smilax rotundifolia*), laurelleaf greenbriar (*Smilax laurifolia*), and muscadine (*Vitis rotundifolia).*

Soils

According to USDA NRCS, hydric soils found in the project area are mapped as Benndale fine sandy loam (2 to 5 percent slopes), Freestone-McLaurin-Susquehanna association, rolling (freest-mclaurin-susquehanna), Heidel sandy loam (12 to 30 percent slopes), McLaurin-Lucy association, rolling, and Pamlico-Dorovan association (croatan-dorovan). For more information, see the data sheets in Appendix B and Custom Soil Report in Appendix C.

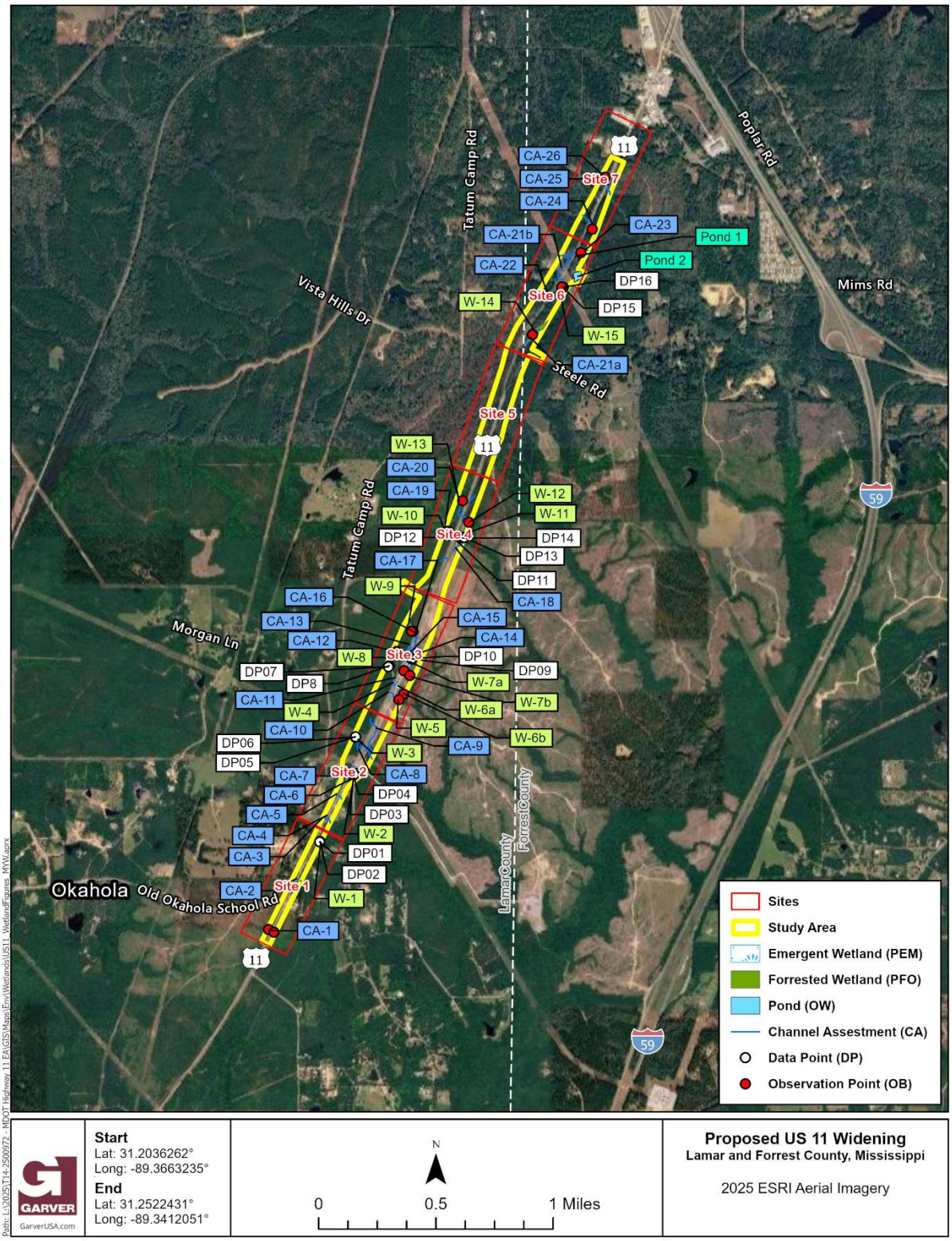


Figure 4. Location of Potentially Jurisdictional Areas.

Chapter 4. Results

The sections below describe the aquatic resources identified within the project's study area within the seven sites. Once project design is complete, impacts to the resources will be calculated. The purpose of the proposed project is to comply with State and Federal legislation and add capacity to US 11 to improve access to a large industrial business development named Eagle One Mega Site (EOMS) and accommodate future traffic demand in a safe and efficient manner. Associated impacts of the project are anticipated to include fill and grading required to widen the roadway, clearing within the ROW, a new bridge over a railroad spur, new culverts underneath the proposed road, and extension of existing culverts. The identified aquatic features are described below.

Site 1

Two ephemeral streams (CA-1 and CA-2) are located within Site 1. Both streams are mapped by the USGS and flow east by southeast under US 11 through culverts into an unnamed tributary of Black Tom Creek, thence into Black Tom Creek. Approximately 108 linear feet (LF) of CA-1 and 130 LF of CA-2 are present within the study area in Site 1.

One PFO wetland (W-1) is located within Site 1 at the headwaters of an unnamed tributary. It is associated with geomorphic position within a floodplain and periodic flooding. Approximately 0.05 acres of W-1 are located within the study area in Site 1.

Site 2

Two intermittent streams (CA-8 and CA-9) and five ephemeral streams (CA-3, CA-4, CA-5, CA-6 and CA-7) are located within Site 2. CA-8 and CA-9 are mapped by the USGS. CA-8 originates from a wetland (W-3) and flows east by southeast under US 11 through a culvert into an unnamed tributary of Black Tom Creek, thence into Black Tom Creek. Approximately 861 LF of CA-8 is present within the study area in Site 2. CA-9 flows east by southeast under US 11 through a culvert then turns southwest and disappears underground prior to confluence with CA-8. Approximately 1,015 LF of CA-9 is present within the study area in Site 2. CA-3 flows east by southeast under US 11 through a culvert then turns southeast and flows off site. Approximately 236 LF of CA-3 are present within the study area in Site 2. CA-4 flows south by southwest parallel to US and enters CA-3 just west of US 11. Approximately 76 LF of CA-4 are present within the study area in Site 2. CA-5 flows east by southeast under US through a culvert and then turns

southeast and disappears underground within the study area in Site 2. Approximately 187 LF of CA-5 is present within the study area in Site 2. CA-6 flows east by southeast under US 11 through a culvert then turns northeast and enters an emergent wetland (W-2). Approximately 200 LF of CA-6 is present within the study area in Site 2. CA-7 flows east under US 11 through a culvert then disappears underground before reappearing and flowing east by southeast through W-2, thence off site. Approximately 333 LF of CA-7 are present within the study area in Site 2.

Two PEM wetlands (W-2 and W-3) are located within Site 2. W-2 is in a depressional area between CA-6 and CA-7 that has been disturbed by a cleared easement for underground utilities. W-3 is located along the floodplain of CA-8 and has been disturbed by a cleared easement for overhead electric lines. Both wetlands are associated with geomorphic position and periodic flooding. Approximately 0.12 acres of W-2 and 0.19 acres of W-3 are present within the study area in Site 2.

Site 3

One perennial stream (CA-14), three intermittent streams (CA-10, CA-11, and CA-12), and four ephemeral streams (CA-13, CA-15, CA-16, and CA-17) are located within Site 3. CA-14 and CA-12 are mapped by the USGS. CA-14 originates from a PFO wetland (W-9) and flows south then east under US 11 through a culvert before turning south and flowing through W-7a and W-7b. CA-14 then turns southeast and flows off site. Approximately 1,299 LF of CA-14 are present within the study area in Site 3. CA-10 flows east by southeast under US 11 through a culvert then flows south by southeast and disappears underground just west of W-5. CA-10 briefly reappears within W-5, then disappears underground again within W-5. Approximately 237 LF of CA-10 is present within the study area in Site 3. CA-11 originates from a spring on the west side of US 11 and flows southwest parallel to the highway and through W-4 before sharply turning east and flowing through a culvert under US 11, thence into W-6. Approximately 251 LF of CA-11 are present within the study area in Site 3. CA-12 originates from W-8 and flows east by southeast through a culvert under US 11 before entering CA-14 within Site 3. Approximately 202 LF of CA-12 are present within the study area in Site 3. CA-13 originates from a spring on the west side of US 11 and flows south parallel to the highway before entering CA-12 within Site 3. On site evidence suggests that these springs only discharge into the ephemeral streams within the study area after heavy rainfall. Approximately 250 LF of CA-13 is present within the study area in Site 3. CA-15 originates from a spring on the east side of US 11 and flows south before entering CA-

12 within Site 3. Approximately 232 LF of CA-15 is present within the study area in Site 3. CA-16 originates east of US 11 and flows south by southwest parallel to the highway and enters CA-14 within Site 3. Approximately 95 LF of CA-16 is present within the study area in Site 3. CA-17 originates west of US 11 and flows southwest into W-9. Approximately 144 LF of CA-17 is present within the study area in Site 3.

Six PFO wetlands (W-4, W-5, W-6b, W-7b, W-8, and W-9) and two PEM wetland (W-6a and W-7a) are located within Site 3. The wetlands within Site 3 are located along floodplains of the perennial and intermittent streams described above and are associated with geomorphic position and periodic flooding. The vegetation within W-6a and W-7a has been disturbed by clearing and development along US 11 for the EOMS. Approximately 0.47 acres of W-4, 0.26 acres of W-5, 0.16 acres of W-6a, 0.31 acres of W-6b, 1.15 acres of W-7a, 0.35 acres of W-7b, 0.18 acres of W-8, and 0.21 acres of W-9 are present within the study area in Site 3.

Site 4

Two perennial streams (CA-19 and CA-20) and one ephemeral stream (CA-18) are located within Site 4. Each of these three streams are mapped by the USGS. CA-19 flows east across the study area through a PFO wetland (W-10) on the west side of US 11 before flowing under US 11 through a culvert. CA-19 then flows through another PFO wetland (W-11) on the east side of US 11, thence continues off site. Approximately 541 LF of CA-19 are present within the study area in Site 4. CA-20 originates on the east side of US 11 and flows southwest towards the highway before turning west and flows under US 11 through a culvert. On the west side of US 11, CA-20 loses channel definition and becomes a PFO wetland (W-13). CA-20 then regains channel definition on the western end of W-13 and flows south through the study area, then turns east by southeast and flows through another culvert under US 11 and continues flowing southeast through another PFO wetland (W-12) on the east side of US 11 before flowing off site. Approximately 1,019 LF of CA-20 are present within the study area in Site 4. CA-18 originates on the west side of US 11 and flows northeast towards the highway and flows under US 11 through a culvert. On the east side of US 11 CA-18 loses channel definition at the culvert outlet, likely due to disturbances to soil and vegetation in this area. CA-18 regains its definition downstream within the study area in Site 4 and flows north by northeast, eventually entering CA-19 off site. Approximately 475 LF of CA-18 are present within the study area in Site 4.

Four PFO wetlands (W-10, W-11, W-12, and W-13) are located within Site 4. The wetlands

within Site 4 are located along floodplains of CA-19 and CA-20 described above and are associated with geomorphic position and periodic flooding. The vegetation within W-11 and W-12 has been partially disturbed by clearing for a utility easement. Approximately 0.36 acres of W-10, 0.25 acres of W-11, 0.16 acres of W-12, and 0.06 acres of W-13 are present within the study area in Site 4.

Site 5

No wetlands or other waters were identified within the study area in Site 5.

Site 6

One perennial stream (CA-23), one intermittent stream (CA-21b), and two ephemeral streams (CA-21a and CA-22) are located within Site 6. CA-23, CA-21a, and CA-21b are mapped by the USGS. CA-23 flows east by northeast across the study area towards US 11 before turning sharply southeast and flowing under the highway through a culvert. On the east side of US 11, CA-23 briefly becomes an open water pond feature (Pond 2), then continues to flow as a stream to the east by northeast before flowing off site. Approximately 720 LF of CA-23 are present within the study area in Site 6. CA-21b flows north by northwest across the study area towards US 11 then turns sharply northwest and flows under the highway through a culvert. On the west side of US 11, CA-21b flows west, then north through a culvert under a driveway. CA-21b continues flowing north by northeast parallel to US 11 and enters CA-23 just west of the highway. Approximately 1,146 LF of CA-21b is present within the study area in Site 6. CA-21a originates just east of US 11 within a PFO wetland (W-14) and flows north by northeast through the study area and loses channel definition and disappears underground within W-14. Approximately 539 LF of CA-21a is present within the study area in Site 6. CA-22 originates at a culvert under US 11 and flows northeast parallel to the highway then briefly disappears underground within Site 6. CA-22 then reappears just downstream within the study area in Site 6 and continues to flow north by northeast into a PFO wetland (W-15). Approximately 382 LF of CA-22 is present within the study area in Site 6.

Two PFO wetlands (W-14 and W-15) and two PUB ponds (Pond 1 and Pond 2) are located within Site 6. W-14 and W-15 are located along the floodplain of CA-21a and CA-21b and are associated with geomorphic position and periodic flooding. Approximately 1.27 acres of W-14 and 0.66 acres of W-15 are present within the study area in Site 6. Pond 1 is a man-made impoundment constructed as a private, residential pond. Approximately 0.78 acres of Pond 1 are present within the study area in Site 6. Pond 2 is located along CA-23 at the outlet of its culvert

under US 11. Pond 2 is likely the result of scour and poor topographic relief during high-flow events causing a depression to form at this outlet. Approximately 0.02 acres of Pond 2 are present within the study area in Site 6.

Site 7

Two intermittent streams (CA-24 and CA-25) and one ephemeral stream (CA-26) are located within Site 7. CA-24 and CA-25 are mapped by the USGS. CA-24 flows southeast across the study area then under US 11 through a culvert. CA-24 turns sharply south on the east side of US 11 and flows south by southeast, continuing off site. Approximately 634 LF of CA-24 is present within the study area in Site 7. CA-25 originates west of US 11, flows south by southeast towards the highway, then turns sharply east by southeast and flows under US 11 through a culvert. East of US 11, CA-25 turns sharply south by southwest and flows south by southeast, continuing off site. Approximately 566 LF of CA-25 is present within the study area in Site 7. CA-26 originates west of US 11 and flows south by southeast for approximately 36 LF before entering CA-25 within the study area in Site 7.

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	Cowardin Classification
DP 1	W-1	1	31.209922°	-89.362459°	294+00	S24 T3N R14W	0.05	PFO
DP 2		1	31.209945°	-89.362421°	294+20	S24 T3N R14W		Upland
DP 3	W-2	2	31.214098°	-89.36002°	311+00	S24 T3N R14W	0.12	PEM
DP 4		2	31.214100°	-89.36005°	311+00	S24 T3N R14W		Upland
DP 5	W-3	2	31.216445°	-89.359921°	319+20	S13 T3N R14W	0.19	PEM
DP 6		2	31.216422°	-89.359945°	319+20	S13 T3N R14W		Upland
DP 7	W-4	3	31.220788°	-89.357576°	336+90	S13 T3N R14W	0.47	PFO
DP 8		3	31.220846°	-89.357501°	337+00	S13 T3N R14W		Upland
OB	W-5	3	31.218751°	-89.356804°	330+60	S13 T3N R14W	0.26	PFO
OB	W-6a	3	31.219555°	-89.356912°	333+00	S13 T3N R14W	0.16	PEM
OB	W-6b	3	31.219089°	-89.356447°	332+00	S13 T3N R14W	0.31	PFO
DP 9		3	31.221279°	-89.355873°	340+00	S13 T3N R14W		Upland
DP 10	W-7a	3	31.221285°	-89.355894°	340+00	S13 T3N R14W	1.15	PEM
OB	W-7b	3	31.220256°	-89.356019°	336+20	S13 T3N R14W	0.35	PFO
OB	W-8	3	31.221728°	-89.356990°	340+60	S13 T3N R14W	0.18	PFO
OB	W-9	3	31.223516°	-89.356071°	346+00	S13 T3N R14W	0.21	PFO
DP 11	W-10	4	31.229150°	-89.353363°	369+90	S13 T3N R14W	0.36	PFO
DP 12		4	31.229195°	-89.353314°	370+10	S13 T3N R14W		Upland
DP 13	W-11	4	31.228806°	-89.352150°	369+80	S13 T3N R14W	0.25	PFO
DP 14		4	31.228775°	-89.352284°	369+40	S13 T3N R14W		Upland
OB	W-12	4	31.229747°	-89.351818°	373+00	S13 T3N R14W & S12 T3N R14 W	0.16	PFO
OB	W-13	4	31.231087°	-89.352265°	377+50	S12 T3N R14W	0.06	PFO
OB	W-14	6	31.241386°	-89.347291°	418+00	S7 T3N R13W	1.27	PFO
DP 15	W-15	6	31.244327°	-89.345106°	430+90	S7 T3N R13W	0.66	PFO
DP 16		6	31.244320°	-89.345075°	430+90	S7 T3N R13W		Upland

DP- Data Point- collection point for sampling data for wetland assessment
OB- Observation Point- collection point for observing characteristics for wetland assessment
W- Wetland- areas described as wetlands.
PFO- Palustrine Forested
PEM- Palustrine Emergent

Wetland Summary:	**Total Present (acres)**
Forested	4.59
Emergent	1.62
Total	**6.21**

Table 2. Jurisdictional Channel Assessment Table

CA #	Site #/ OR Worksheet #	Latitude	Longitude	Approximate Station Number	Section-Township-Range	Type	Length in Project Area (feet)	Channel Width (feet)	Name
8	2	31.216247°	-89.359802°	317+80	S13 T3N R14W	I	861	2	N/A
9	2	31.217185°	-89.358666°	323+00	S13 T3N R14W	I	1,015	2	N/A
10	3	31.219229°	-89.357530°	331+20	S13 T3N R14W	I	237	1	N/A
11	3	31.219715°	-89.357260°	333+20	S13 T3N R14W	I	251	1.5	N/A
12	3	31.221605°	-89.356477°	340+60	S13 T3N R14W	I	202	1.5	N/A
14	3	31.221299°	-89.355957°	345+00	S13 T3N R14W	P	1,299	2	N/A
19	4	31.229146°	-89.353466°	370+10	S13 T3N R14W	P	541	3	N/A
20	4	31.230099°	-89.352173°	374+60	S12 T3N R14W	P	1,019	2	N/A
21b	6	31.245284°	-89.345435°	432+20	S7 T3N R13W & S6 T3N R13W	I	1,146	2	N/A
23	6	31.246305°	-89.345126°	439+00	S6 T3N R13W	P	720	3	N/A
24	7	31.248798°	-89.343707°	446+90	S6 T3N R13W	I	634	3	N/A
25	7	31.251278°	-89.342178°	456+00	S6 T3N R13W	I	566	1.5	N/A

CA- Channel Assessment- Channel Assessment point location
Type:
P-Perennial
I-Intermittent

CA Summary:	**Total Present (LF)**
Perennial	3,579
Intermittent	4,912
Total Jurisdictional	**8,491**

Table 3. Non-Jurisdictional Channel Assessment Table

CA #	Site #/ OR Worksheet #	Latitude	Longitude	Approximate Station Number	Section-Township-Range	Type	Length in Project Area (feet)	Channel Width (feet)	Name
1	1	31.204286°	-89.365675°	271+20	S23 T3N R14W	E	108	0.8	N/A
2	1	31.207638°	-89.364139°	284+40	S23 T3N R14W	E	130	0.5	N/A
3	2	31.211399°	-89.362012°	299+50	S24 T3N R14W	E	236	1	N/A
4	2	31.211586°	-89.361935°	300+00	S24 T3N R14W	E	76	0.4	N/A
5	2	31.212838°	-89.361188°	305+30	S24 T3N R14W	E	187	1	N/A
6	2	31.213930°	-89.360555°	309+80	S24 T3N R14W	E	200	0.5	N/A
7	2	31.214449°	-89.359777°	312+80	S24 T3N R14W	E	333	1	N/A
13	3	31.222184°	-89.356017°	343+00	S13 T3N R14W	E	250	0.5	N/A
15	3	31.221768°	-89.355965°	342+00	S13 T3N R14W	E	232	0.5	N/A
16	3	31.222841°	-89.355468°	345+90	S13 T3N R14W	E	95	0.5	N/A
17	3	31.223155°	-89.355518°	347+00	S13 T3N R14W	E	144	0.5	N/A
18	4	31.227507°	-89.353578°	364+00	S13 T3N R14W	E	475	0.5	N/A
21a	6	31.240875°	-89.347810°	415+80	S7 T3N R13W	E	539	1	N/A
22	6	31.243427°	-89.346159°	426+50	S7 T3N R13W	E	382	0.5	N/A
26	7	31.251207°	-89.342224°	457+50	S6 T3N R13W	E	36	1	N/A

CA- Channel Assessment- Channel Assessment point location
Type:
E-Ephemeral

CA Summary:	**Total Present (LF)**
Ephemeral	3,423
Total Non-Jurisdictional	**3,423**

Table 4. Pond Assessment Table

Pond ID #	Site #/ OR Worksheet #	Latitude*	Longitude*	Approximate Station Number	Section-Township-Range	Size (Acres)
1	6	31.245176°	-89.344319°	435+00	S6 T3N R13W	0.78
2	6	31.246389°	-89.344105°	439+00	S6 T3N R13W	0.02

Pond Summary: 0.80 acres Total

Chapter 5. References

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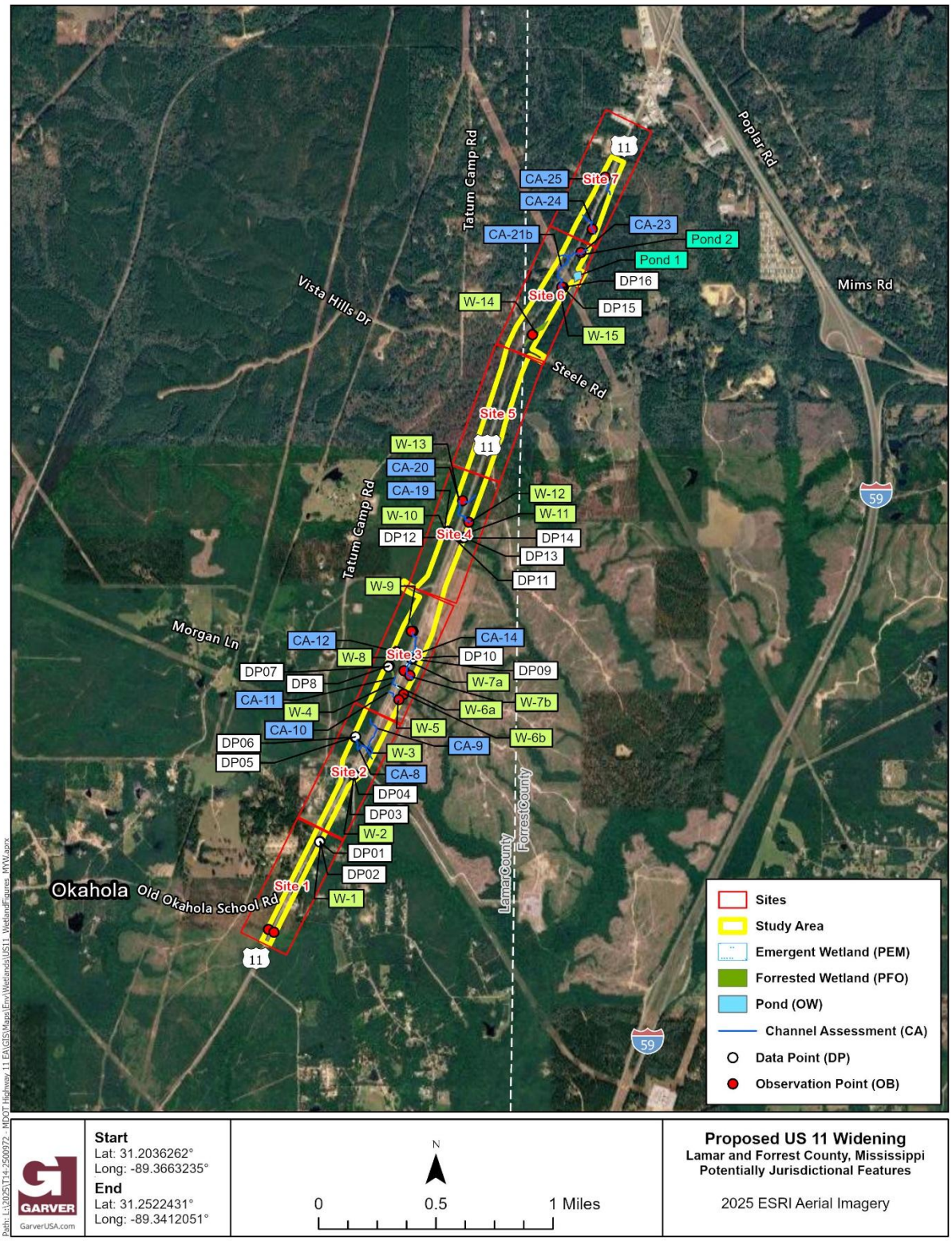
Appendix A — Methods and Tools

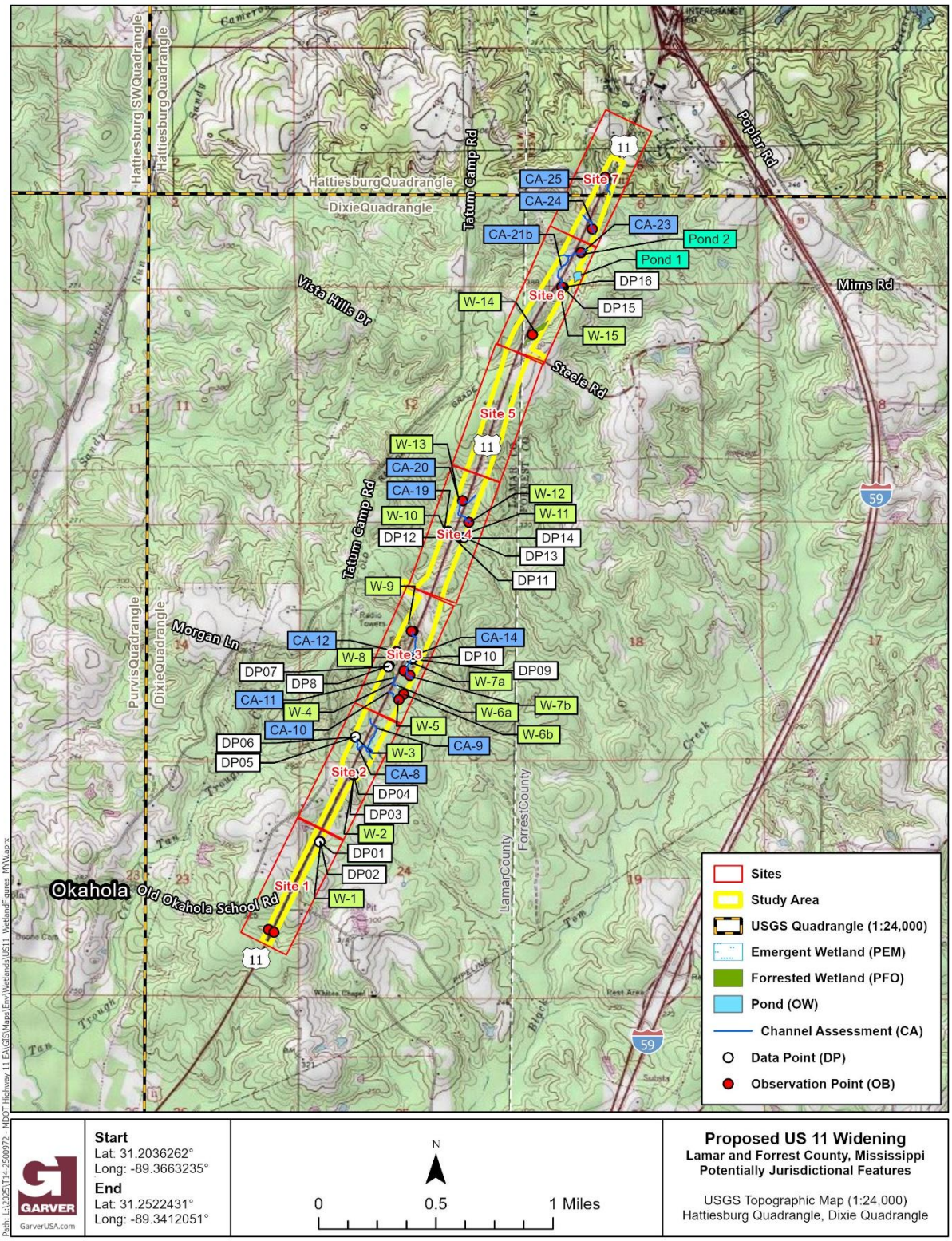
Table A-1. Methods and tools used to prepare the report.

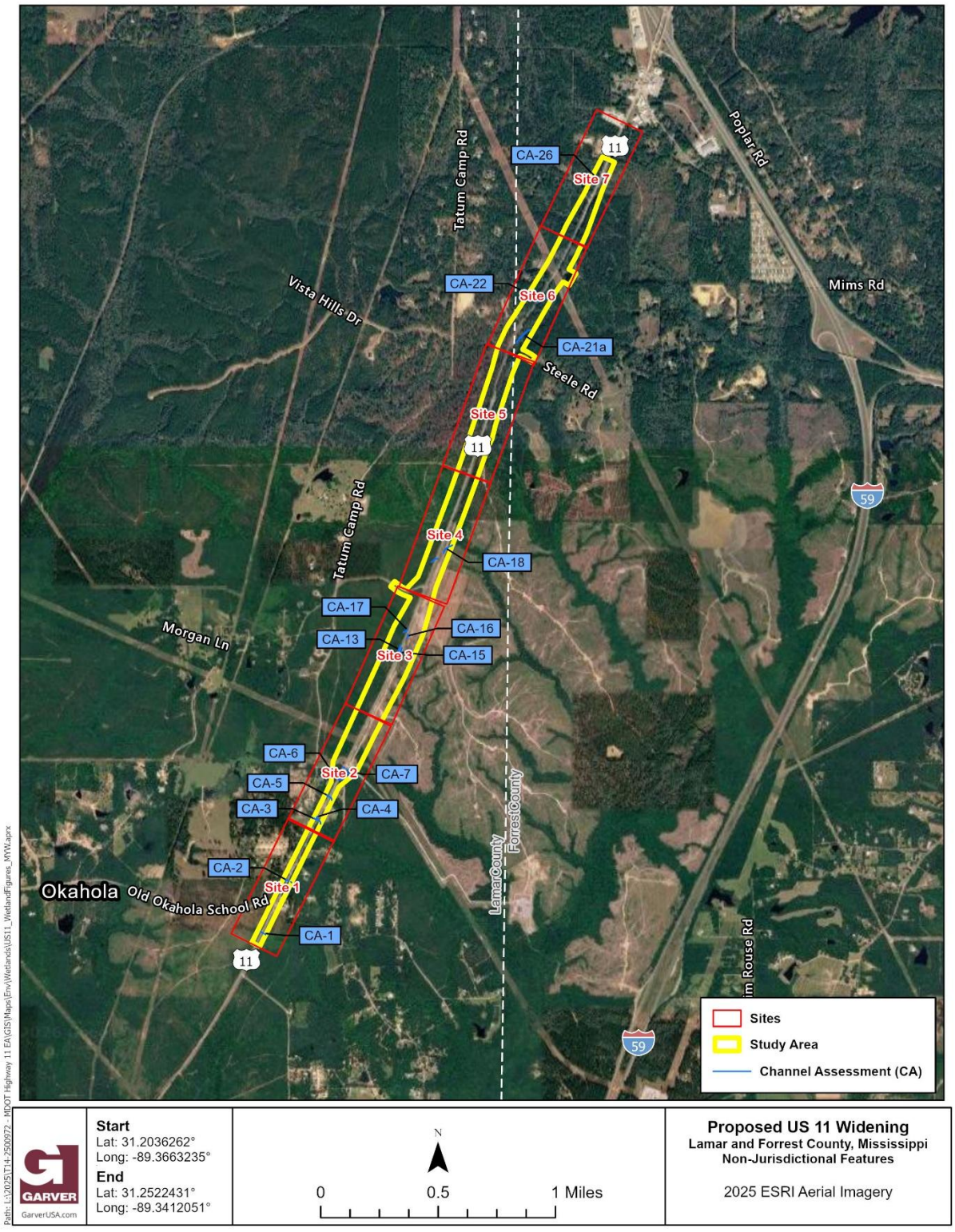
Parameter	Method or Tool	Website	Reference
Wetland Delineation	1987 Manual	https://www.lrh.usace.army.mil/Portals/38/docs/USACE%2087%20Wetland%20Delineation%20Manual.pdf	Environmental Laboratory. 1987. *Corps of Engineers Wetlands Delineation Manual*, Technical Report Y-87-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, Miss.
	Regional Supplement	usace.contentdm.oclc.org/utils/getfile/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/documents/classification-of-wetlands-and-deepwater-habitats-of-the-united-states.pdf	Cowardin, L. M., V. Carter, F. C. Golet, E. T. LaRoe. 1979. *Classification of wetlands and deepwater habitats of the United States*. Government Printing Office, Washington, D.C.
Other Waters Delineation	OHWM	https://www.federalregister.gov/documents/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. *Technical Standard for Water-Table Monitoring of Potential Wetland Sites, WRAP Technical Notes Collection* (ERDC TN-WRAP-05-02). U.S. Army Engineer Research and Development Center, Vicksburg, MS.
Plant Indicator Status	National Wetland Plant List	https://nwpl.sec.usace.army.mil/	U.S. Army Corps of Engineers. 2022. National Wetland Plant List, Version 3.
	USDA Plant Database	http://plants.usda.gov/	Website
Soils Data	Soil Survey	Web Soil Survey: http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx	Website
	Hydric Soil Indicators	https://nrcspad.sc.egov.usda.gov/DistributionCenter/pdf.aspx?productID=663	USDA Natural Resources Conservation Service. 2006b. *Field indicators of hydric soils in the United States, Version 6.0*. 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

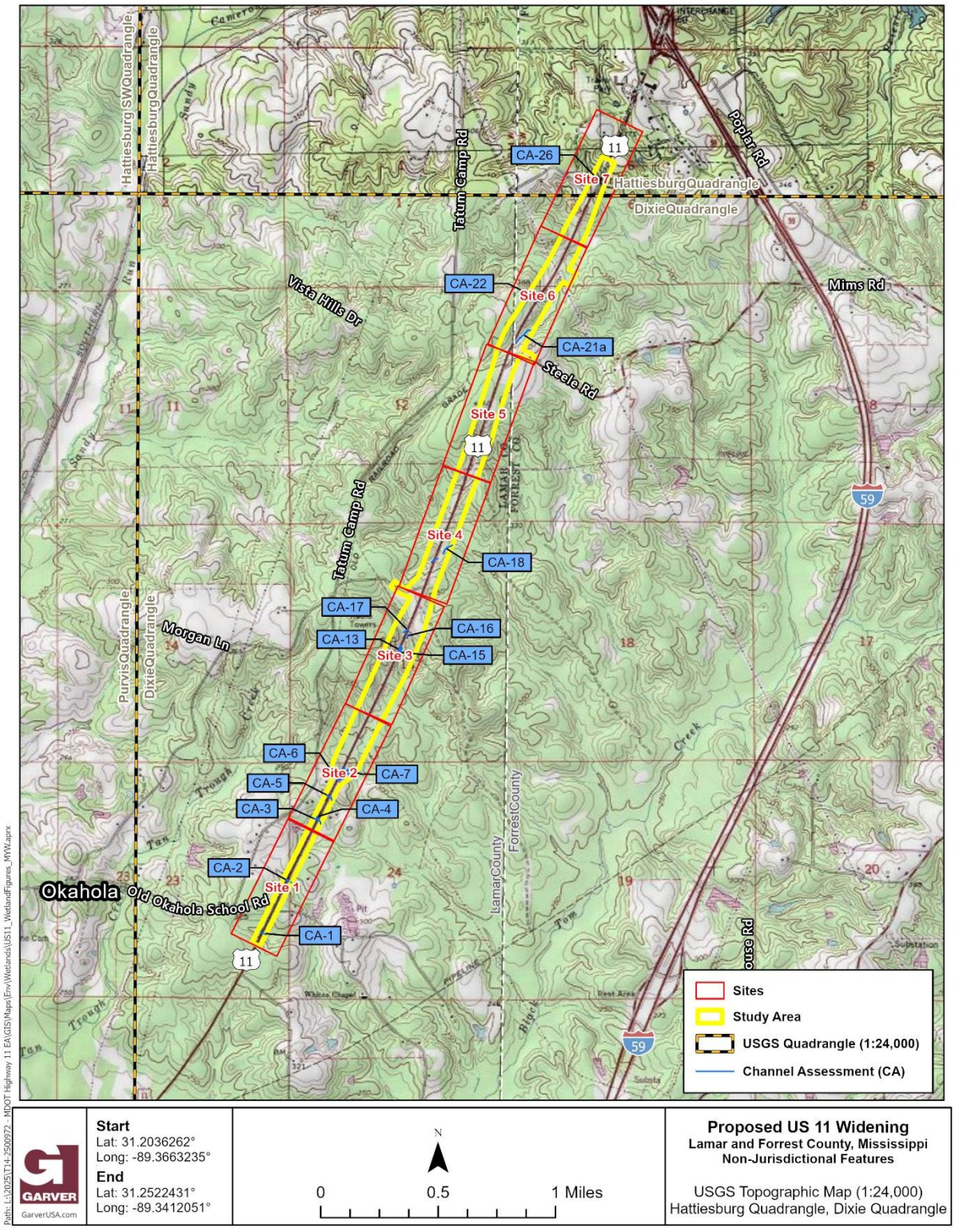
Appendix B — Detailed Site Information

Site Maps, Wetland Datasheet, Other Water Field Datasheet, Site Photographs

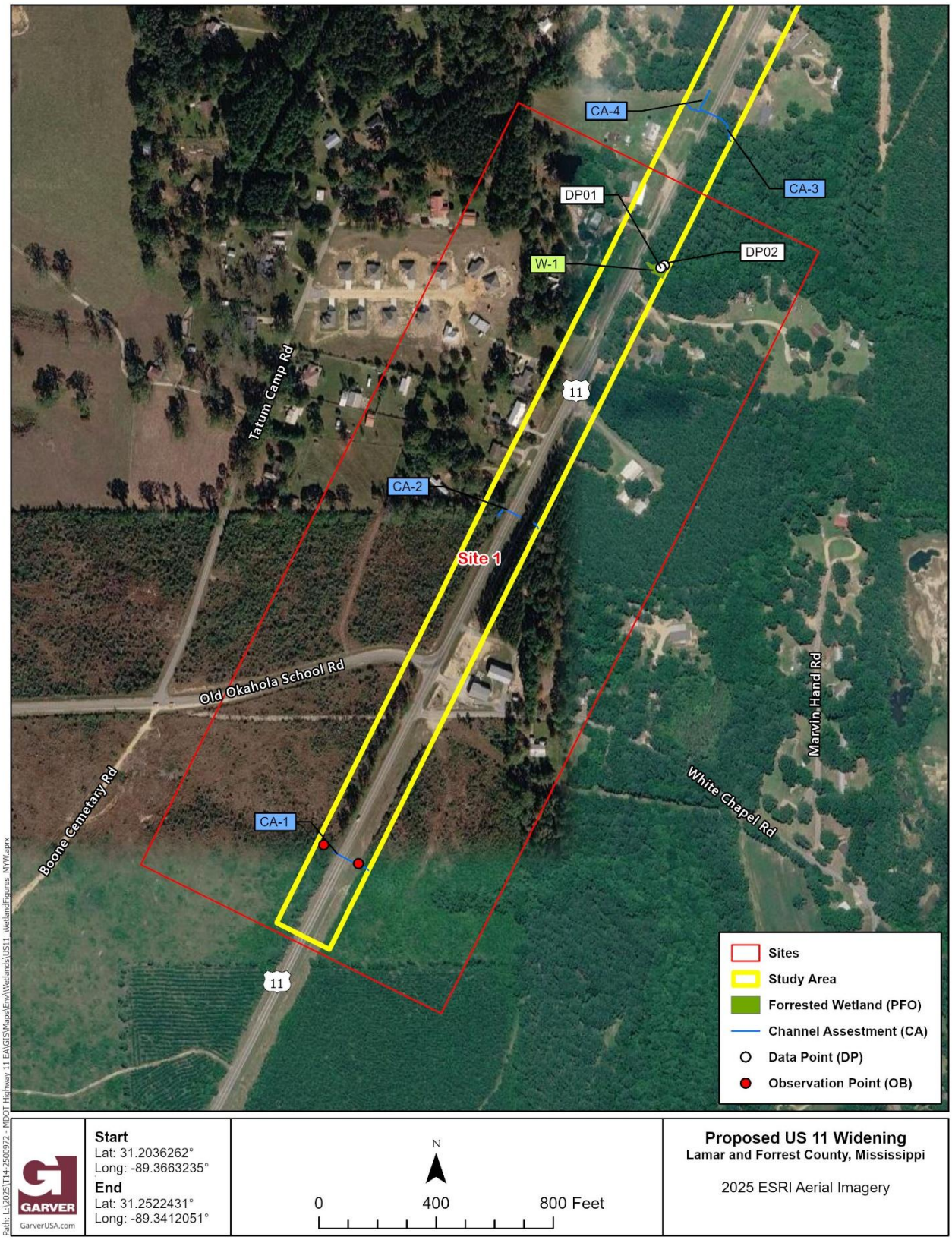

Tatum Camp Rd
Poplar Rd
Vista Hills Dr
Mims Rd
Steele Rd
Morgan Ln
Old Okahola School Rd
Okahola
Lamar County
Forrest County
11
59
Site 1
Site 2
Site 3
Site 4
Site 5
Site 6
Site 7
CA-25
CA-24
CA-23
CA-21b
CA-20
CA-19
CA-14
CA-12
CA-11
CA-10
CA-9
CA-8
Pond 2
Pond 1
DP16
DP15
DP14
DP13
DP12
DP11
DP10
DP09
DP8
DP07
DP06
DP05
DP04
DP03
DP02
DP01
W-15
W-14
W-13
W-12
W-11
W-10
W-9
W-8
W-7a
W-7b
W-6a
W-6b
W-5
W-4
W-3
W-2
W-1
Sites
Study Area
Emergent Wetland (PEM)
Forrested Wetland (PFO)
Pond (OW)
Channel Assessment (CA)
Data Point (DP)
Observation Point (OB)
Start
Lat: 31.2036262°
Long: -89.3663235°
End
Lat: 31.2522431°
Long: -89.3412051°
GARVER
GarverUSA.com
N
0
0.5
1 Miles
Proposed US 11 Widening
Lamar and Forrest County, Mississippi
Potentially Jurisdictional Features
2025 ESRI Aerial Imagery
Path: L:\2025\T14-2500972 - MDOT Highway 11 EA\GIS\Maps\Env\Wetlands\US11_WetlandFigures_MYW.aprx

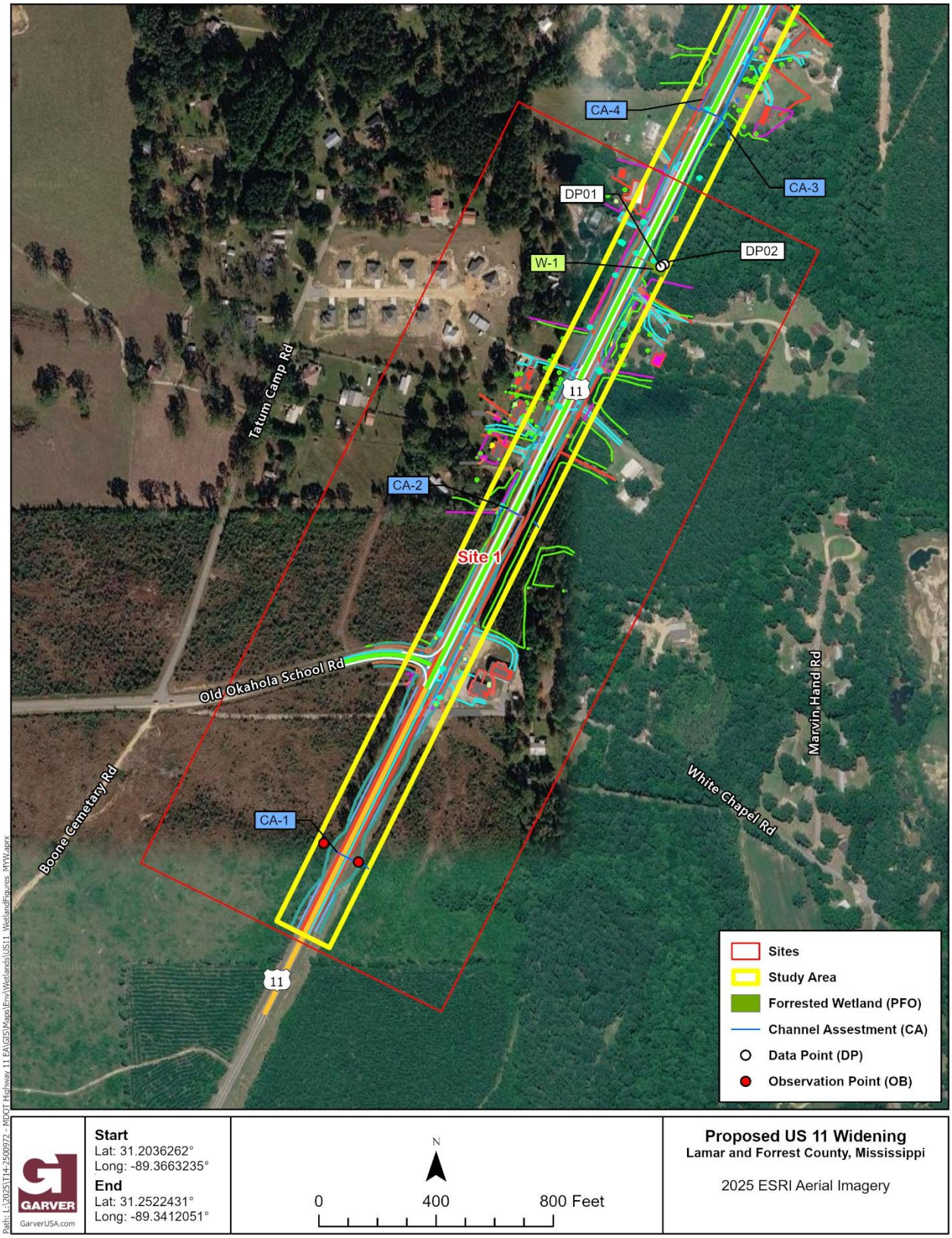

Site 7
Site 6
Site 5
Site 4
Site 3
Site 2
Site 1
CA-25
CA-24
CA-23
CA-21b
Pond 2
Pond 1
DP16
DP15
W-14
W-15
W-13
CA-20
CA-19
W-12
W-11
W-10
DP12
DP14
DP13
DP11
W-9
CA-12
CA-14
W-8
DP10
DP09
DP07
DP8
W-7a
W-7b
CA-11
W-4
W-6a
W-6b
CA-10
W-5
DP06
DP05
W-3
CA-9
CA-8
DP04
DP03
W-2
DP01
DP02
W-1
Tatum Camp Rd
Vista Hills Dr
Steele Rd
Mims Rd
Poplar Rd
Morgan Ln
Old Okahola School Rd
Okahola
HattiesburgQuadrangle
DixieQuadrangle
PurvisQuadrangle
Hattiesburg SWQuadrangle
ForrestCounty
LamarCounty
Sites
Study Area
USGS Quadrangle (1:24,000)
Emergent Wetland (PEM)
Forrested Wetland (PFO)
Pond (OW)
Channel Assessment (CA)
Data Point (DP)
Observation Point (OB)
Start
Lat: 31.2036262°
Long: -89.3663235°
End
Lat: 31.2522431°
Long: -89.3412051°
N
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1 Miles
Proposed US 11 Widening
Lamar and Forrest County, Mississippi
Potentially Jurisdictional Features
USGS Topographic Map (1:24,000)
Hattiesburg Quadrangle, Dixie Quadrangle
GARVER
GarverUSA.com

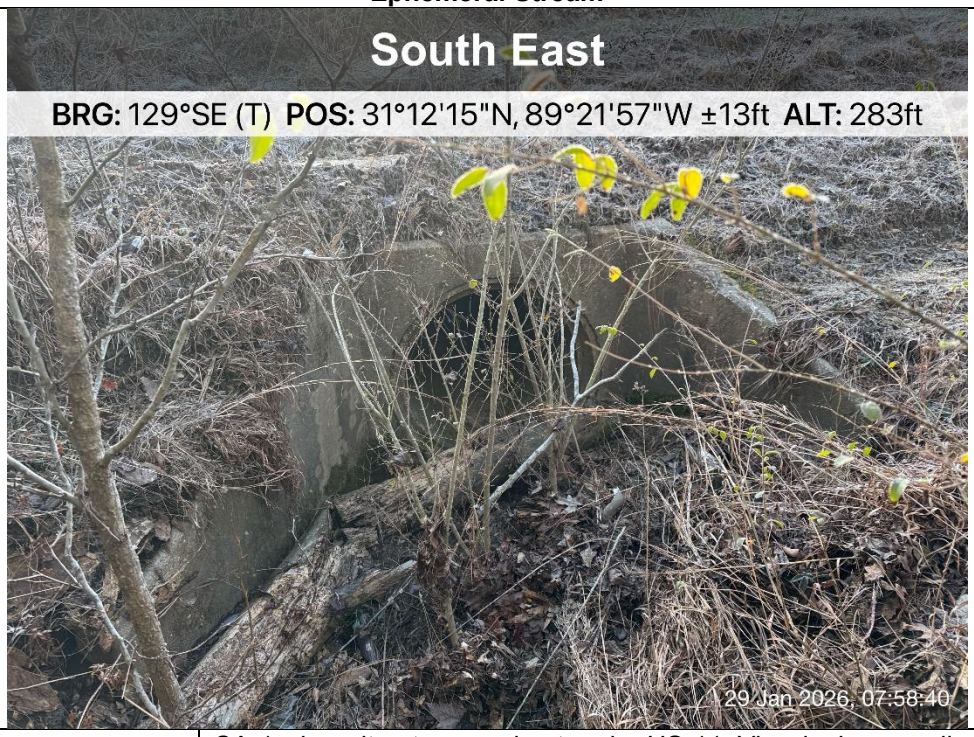

Tatum Camp Rd
Poplar Rd
Vista Hills Dr
Mims Rd
Steele Rd
Tatum Camp Rd
Morgan Ln
Lamar County
Forrest County
Okahola
Old Okahola School Rd
Jim Rouse Rd
CA-26
Site 7
CA-22
Site 6
CA-21a
Site 5
Site 4
CA-18
CA-17
CA-16
CA-13
Site 3
CA-15
CA-6
Site 2
CA-7
CA-5
CA-3
CA-4
CA-2
Site 1
CA-1
11
59
Sites
Study Area
Channel Assessment (CA)
Start
Lat: 31.2036262°
Long: -89.3663235°
End
Lat: 31.2522431°
Long: -89.3412051°
GARVER
GarverUSA.com
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1 Miles
Proposed US 11 Widening
Lamar and Forrest County, Mississippi
Non-Jurisdictional Features
2025 ESRI Aerial Imagery
Path: L:\2025\T14-2500972 - MDOT Highway 11 EA\GIS\Maps\Env\Wetlands\US11_WetlandFigures_MYW.aprx


Hattiesburg SWQuadrangle
HattiesburgQuadrangle
DixieQuadrangle
PurvisQuadrangle
Tatum Camp Rd
Poplar Rd
Mims Rd
Vista Hills Dr
Steele Rd
Morgan Ln
Old Okahola School Rd
Okahola
LamarCounty
ForrestCounty
CA-26
CA-22
CA-21a
CA-18
CA-17
CA-16
CA-13
CA-15
CA-6
CA-7
CA-5
CA-4
CA-3
CA-2
CA-1
Site 7
Site 6
Site 5
Site 4
Site 3
Site 2
Site 1
11
59
Sites
Study Area
USGS Quadrangle (1:24,000)
Channel Assessment (CA)
Start
Lat: 31.2036262°
Long: -89.3663235°
End
Lat: 31.2522431°
Long: -89.3412051°
GARVER
GarverUSA.com
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1 Miles
Proposed US 11 Widening
Lamar and Forrest County, Mississippi
Non-Jurisdictional Features
USGS Topographic Map (1:24,000)
Hattiesburg Quadrangle, Dixie Quadrangle
Path: L:\2025\T14-2500972 - MDOT Highway 11 EA\GIS\Maps\Env\Wetlands\US11_WetlandFigures_MYW.aprx

Site 1


CA-4
CA-3
DP01
DP02
W-1
Tatum Camp Rd
11
CA-2
Site 1
Old Okahola School Rd
Marvin Hand Rd
Boone Cemetary Rd
White Chapel Rd
CA-1
11
Sites
Study Area
Forrested Wetland (PFO)
Channel Assestment (CA)
Data Point (DP)
Observation Point (OB)
Start
Lat: 31.2036262°
Long: -89.3663235°
End
Lat: 31.2522431°
Long: -89.3412051°
GARVER
GarverUSA.com
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400
800 Feet
Proposed US 11 Widening
Lamar and Forrest County, Mississippi
2025 ESRI Aerial Imagery
Path: I:\2025\T14-2500972 - MDOT Highway 11 EA\GIS\Maps\Env\Wetlands\US11_WetlandFigures_MYW.aprx


CA-4
CA-3
DP01
DP02
W-1
Tatum Camp Rd
11
CA-2
Site 1
Old Okahola School Rd
Marvin Hand Rd
Boone Cemetary Rd
White Chapel Rd
CA-1
11
Sites
Study Area
Forrested Wetland (PFO)
Channel Assestment (CA)
Data Point (DP)
Observation Point (OB)
Start
Lat: 31.2036262°
Long: -89.3663235°
End
Lat: 31.2522431°
Long: -89.3412051°
GARVER
GarverUSA.com
N
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400
800 Feet
Proposed US 11 Widening
Lamar and Forrest County, Mississippi
2025 ESRI Aerial Imagery
Path: L:\2025\1T14-2500972 - MDOT Highway 11 EA\GIS\Maps\Env\Wetlands\US11_WetlandFigures_MYW.aprx

CA-1	
Ephemeral Stream	
	
Description	CA-1 where it enters a culvert under US-11. View is downgradient to the southeast.
CA-1	
Ephemeral Stream	
	
Description	CA-1 where it exits a culvert under US 11. View is upgradient to the northwest.

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

Project: US 11 Improvements	**City/County/State:** Lamar County, Mississippi	
Investigator(s): Wilson Harper	**Lat:** 31.204286 **Long:** -89.365675	**Sample Location ID:** CA-1
Applicant/Owner: Mississippi Department of Transportation	**Date:** 1/29/2026	
Reason for Survey: Wetland Delineation		
River Basin/HUC Number: 03170007 **Size of Watershed:** 811,067 acres **Size of Drainage Area:** 7 acres	**Tributary Name (if known):** N/A **Nearest TNW:** Pascagoula River	

TRIBUTARY CHARACTERIZATION	**Tributary subsystem:** ☑ Ephemeral ☐ Intermittent ☐ Perennial **Tributary flows directly into a TNW?** **Explain:** No **Distance to nearest TNW:** River Miles: 72.2 Aerial Miles: 57.3 **Describe flow route to TNW:** Unnamed tributary into unnamed tributary, thence into Black Tom Creek, thence into Black Creek, thence into Big Black Creek, thence into Pascagoula River. **Tributary is** (natural / artificial / manipulated): **Explain:** Manipulated. Culvert beneath US 11.
WEATHER CONDITIONS	**Current:** ☐ rain (steady rain) ☐ showers (intermittent) ☐ cloud cover_____ (%) ☑ clear/ sunny air temperature: 32 (ºF) **Has there been heavy rain in the last 7 days?** No **Average Rainfall:** 0.03 (in.) **Comment:**
WATERSHED FEATURES	**Predominant surrounding landuse:** ☑ Forest ☐ Commercial ☑ Other (Explain): Transportation ☐ Field/Pasture ☐ Industrial ☐ Agricultural ☐ Residential

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

TRIBUTARY FEATURES	**Estimated reach length**: 108 (ft.) **Estimated channel width**: 0.8 (ft.) **Estimated channel depth**: 0.3 (ft.) **Channelized:** No **Dam present:** No **Estimated slope of banks**: vertical ☐ 2:1 ☐ 3:1 ☑ 4:1 ☐ greater ☐ **Substrate:** sand ☐ cobble ☐ silt ☑ gravel ☐
TRIBUTARY CONDITION	**Tributary has** (defined bed and banks / OHWM): **Explain:** Mostly flowline, OHWM established for some sections. **Bank stability** (highly eroded, sloughing banks, etc): **Explain:** Minimal bank, stable. **Riffle / Run / Pool complex:** No **Explain:** Not observed.
FLOW CONDITIONS	**Tributary geometry** (relatively straight, meandering, other): **Explain:** Relatively straight. **Current flow is** (discrete, confined, overland sheet flow, etc): **Explain:** None. Evidence of overland flow on east side of US 11. **Average flow events per year:** Unknow
VEGETATION	**Approximate width of riparian buffer:** 0 - 200 (ft.) **Dominant species present** (top bank / buffer): *Pinus taeda, Liquidambar styraciflua, Ligustrum sinense, Smilax laurifolia* **Aquatic vegetation present:** No **Comment:** Not observed.

CA-2	
Ephemeral Stream	
	
Description	CA-2 where it enters a culvert under US-11. View is downgradient to the southeast.

CA-2	
Ephemeral Stream	
	
Description	CA-2 looking upgradient to the north.

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

Project: US 11 Improvements	**City/County/State:** Lamar County, Mississippi	
Investigator(s): Wilson Harper	**Lat:** 31.207638 **Long:** -89.364139	**Sample Location ID:** CA-2
Applicant/Owner: Mississippi Department of Transportation	**Date:** 1/29/2026	
Reason for Survey: Wetland Delineation		
River Basin/HUC Number: 03170007 **Size of Watershed:** 811,067 acres **Size of Drainage Area:** 7.7 acres	**Tributary Name (if known):** N/A **Nearest TNW:** Pascagoula River	

TRIBUTARY CHARACTERIZATION	**Tributary subsystem:** ☑ Ephemeral ☐ Intermittent ☐ Perennial **Tributary flows directly into a TNW?** **Explain:** No **Distance to nearest TNW:** River Miles: 72.4 Aerial Miles: 57.3 **Describe flow route to TNW:** Unnamed tributary into unnamed tributary, thence into Black Tom Creek, thence into Black Creek, thence into Big Black Creek, thence into Pascagoula River. **Tributary is** (natural / artificial / manipulated): **Explain:** Manipulated. Culvert beneath US 11.
WEATHER CONDITIONS	**Current:** ☐ rain (steady rain) ☐ showers (intermittent) ☐ cloud cover_____ (%) ☑ clear/ sunny air temperature: 36 (°F) **Has there been heavy rain in the last 7 days?** No **Average Rainfall:** 0.03 (in.) **Comment:**
WATERSHED FEATURES	**Predominant surrounding landuse:** ☑ Forest ☐ Commercial ☑ Other (Explain): Transportation ☐ Field/Pasture ☐ Industrial ☐ Agricultural ☑ Residential

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

TRIBUTARY FEATURES	**Estimated reach length**: 130 (ft.) **Estimated channel width**: 0.5 (ft.) **Estimated channel depth**: 0.2 (ft.) **Channelized:** No **Dam present:** No **Estimated slope of banks**: vertical ☐ 2:1 ☐ 3:1 ☐ 4:1 ☐ greater ☑ **Substrate:** sand ☐ cobble ☐ silt ☑ gravel ☐
TRIBUTARY CONDITION	**Tributary has** (defined bed and banks / OHWM): **Explain:** Flowline. **Bank stability** (highly eroded, sloughing banks, etc): **Explain:** Minimal bank, stable. **Riffle / Run / Pool complex:** No **Explain:** Not observed.
FLOW CONDITIONS	**Tributary geometry** (relatively straight, meandering, other): **Explain:** Relatively straight. **Current flow is** (discrete, confined, overland sheet flow, etc): **Explain:** None. Evidence of overland flow on east side of US 11. **Average flow events per year:** Unknow
VEGETATION	**Approximate width of riparian buffer:** 0 - 100 (ft.) **Dominant species present** (top bank / buffer): *Quercus nigra, Pinus taeda, Liquidambar styraciflua, Ligustrum sinense, Lonicera japonica* **Aquatic vegetation present:** No **Comment:** Not observed.

W-1	
Forested Wetland	
	
Description	W-1. View is to the southeast.
DP 2	
Hydric Soil	
	
Description	Hydric soil at DP 1 within W-1.

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: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: US 11 Improvements City/County: Lamar County Sampling Date: 1/29/2026
Applicant/Owner: MDOT State: MS Sampling Point: DP 01
Investigator(s): Wilson Harper Section, Township, Range: S 24, T 3 N, R 14 W
Landform (hillside, terrace, etc.): Floodplain Local relief (concave, convex, none): Concave Slope (%): 2
Subregion (LRR or MLRA): LRR P, MLRA 133C Lat: 31.209922 Long: -89.362459 Datum: WGS 84
Soil Map Unit Name: McLaurin-Lucy Association, rolling 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 X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?** **Yes** X **No** ____
Hydric Soil Present?	Yes X	No ____	
Wetland Hydrology Present?	Yes X	No ____	

Remarks:
Site is drier than normal according to the USACE Antecedent Precipitation Tool. Site meets all three criteria and is located within a wetland.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- X Sediment Deposits (B2)
- X Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15) **(LRR U)**
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- X Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- X FAC-Neutral Test (D5)
- ___ 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? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** X **No** ____

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

Remarks:
Site meets wetland hydrology criteria.

ENG FORM 6116-2, SEP 2024 Atlantic and Gulf Coastal Plain – Version 2.0

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP 01

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. *Magnolia virginiana*	45	Yes	FACW
2. *Quercus nigra*	10	No	FAC
3. *Liquidambar styraciflua*	10	No	FAC
4.			
5.			
6.			
7.			
8.			
	65	=Total Cover	
50% of total cover: 33	20% of total cover:		13
Sapling/Shrub Stratum (Plot size: 30')			
1. *Ligustrum sinense*	20	Yes	FAC
2. *Pyrus calleryana*	5	Yes	UPL
3.			
4.			
5.			
6.			
7.			
8.			
	25	=Total Cover	
50% of total cover: 13	20% of total cover:		5
Herb Stratum (Plot size: 30')			
1. *Rhynchospora inexpansa*	15	Yes	FACW
2. *Carex blanda*	10	Yes	FAC
3. *Lonicera japonica*	5	No	FACU
4. *Atrichum angustatum*	5	No	UPL
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	35	=Total Cover	
50% of total cover: 18	20% of total cover:		7
Woody Vine Stratum (Plot size: 30')			
1. *Vitis rotundifolia*	5	Yes	FAC
2.			
3.			
4.			
5.			
	5	=Total Cover	
50% of total cover: 3	20% of total cover:		1

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 83.3% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)
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]

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody Vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (If observed, list morphological adaptations below.)
Site meets hydrophytic vegetation criteria.

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SOIL Sampling Point: DP 01

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	7.5YR 4/1	80	5YR 5/6	20	C	M	Loamy/Clayey	Prominent redox concentrations

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Organic Bodies (A6) **(LRR P, T, U)**
- ___ 5 cm Mucky Mineral (A7) **(LRR P, T, U)**
- ___ Muck Presence (A8) **(LRR U)**
- ___ 1 cm Muck (A9) **(LRR P, T)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Coast Prairie Redox (A16) **(MLRA 150A)**
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1) **(LRR O, S)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR P, S, T, U)**
- ___ Polyvalue Below Surface (S8) **(LRR S, T, U)**
- ___ Thin Dark Surface (S9) **(LRR S, T, U)**
- ___ Barrier Islands 1 cm Muck (S12) **(MLRA 153B, 153D)**
- ___ Loamy Mucky Mineral (F1) **(LRR O)**
- ___ Loamy Gleyed Matrix (F2)
- X Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) **(LRR U)**
- ___ Depleted Ochric (F11) **(MLRA 151)**
- ___ Iron-Manganese Masses (F12) **(LRR O, P, T)**
- ___ Umbric Surface (F13) **(LRR P, T, U)**
- ___ Delta Ochric (F17) **(MLRA 151)**
- ___ Reduced Vertic (F18) **(MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149A)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 149A, 153C, 153D)**
- ___ Very Shallow Dark Surface (F22) **(MLRA 138, 152A in FL, 154)**

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) **(LRR O)**
- ___ 2 cm Muck (A10) **(LRR S)**
- ___ Coast Prairie Redox (A16) **(MLRA 149A)**
- ___ Reduced Vertic (F18) **(outside MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(LRR P, T)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 153B)**
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22) **(outside MLRA 138, 152A in FL, 154)**
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks:
Site meets hydric soil criteria.

ENG FORM 6116-2, SEP 2024 Atlantic and Gulf Coastal Plain – Version 2.0

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: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: US 11 Improvements City/County: Lamar County Sampling Date: 1/29/2026
Applicant/Owner: MDOT State: MS Sampling Point: DP 02
Investigator(s): Wilson Harper Section, Township, Range: S 24, T 3 N, R 14 W
Landform (hillside, terrace, etc.): Floodplain Local relief (concave, convex, none): None Slope (%): 2
Subregion (LRR or MLRA): LRR P, MLRA 133C Lat: 31.209945 Long: -89.362421 Datum: WGS 84
Soil Map Unit Name: McLaurin-Lucy Association, rolling 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 X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes X	No ____	

Remarks:
Site is drier than normal according to the USACE Antecedent Precipitation Tool. Site does not meet all three criteria and is not located within a wetland.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- X Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15) **(LRR U)**
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- X 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)
- X FAC-Neutral Test (D5)
- ___ Sphagnum Moss (D8) **(LRR T, U)**

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** X **No** ____

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

Remarks:
Site meets wetland hydrology criteria.

ENG FORM 6116-2, SEP 2024 Atlantic and Gulf Coastal Plain – Version 2.0

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP 02

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. *Magnolia virginiana*	20	Yes	FACW
2. *Pinus taeda*	20	Yes	FAC
3. *Liquidambar styraciflua*	10	Yes	FAC
4.			
5.			
6.			
7.			
8.			
	50	=Total Cover	
50% of total cover: 25	20% of total cover:		10
Sapling/Shrub Stratum (Plot size: 30')			
1. *Ligustrum sinense*	25	Yes	FAC
2. *Magnolia virginiana*	5	No	FACW
3.			
4.			
5.			
6.			
7.			
8.			
	30	=Total Cover	
50% of total cover: 15	20% of total cover:		6
Herb Stratum (Plot size: 30')			
1. *Ligustrum sinense*	5	Yes	FAC
2. *Carex blanda*	5	Yes	FAC
3. *Smilax rotundifolia*	5	Yes	FAC
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	15	=Total Cover	
50% of total cover: 8	20% of total cover:		3
Woody Vine Stratum (Plot size: 30')			
1. *Vitis rotundifolia*	5	Yes	FAC
2.			
3.			
4.			
5.			
	5	=Total Cover	
50% of total cover: 3	20% of total cover:		1

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 8 (A)

Total Number of Dominant Species Across All Strata: 8 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

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]

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody Vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (If observed, list morphological adaptations below.)
Thick pine straw layer on ground surface. Site meets hydrophytic vegetation criteria.

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SOIL Sampling Point: DP 02

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	7.5YR 4/3	100					Loamy/Clayey	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Organic Bodies (A6) **(LRR P, T, U)**
- ___ 5 cm Mucky Mineral (A7) **(LRR P, T, U)**
- ___ Muck Presence (A8) **(LRR U)**
- ___ 1 cm Muck (A9) **(LRR P, T)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Coast Prairie Redox (A16) **(MLRA 150A)**
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1) **(LRR O, S)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR P, S, T, U)**
- ___ Polyvalue Below Surface (S8) **(LRR S, T, U)**
- ___ Thin Dark Surface (S9) **(LRR S, T, U)**
- ___ Barrier Islands 1 cm Muck (S12) **(MLRA 153B, 153D)**
- ___ Loamy Mucky Mineral (F1) **(LRR O)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) **(LRR U)**
- ___ Depleted Ochric (F11) **(MLRA 151)**
- ___ Iron-Manganese Masses (F12) **(LRR O, P, T)**
- ___ Umbric Surface (F13) **(LRR P, T, U)**
- ___ Delta Ochric (F17) **(MLRA 151)**
- ___ Reduced Vertic (F18) **(MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149A)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 149A, 153C, 153D)**
- ___ Very Shallow Dark Surface (F22) **(MLRA 138, 152A in FL, 154)**

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) **(LRR O)**
- ___ 2 cm Muck (A10) **(LRR S)**
- ___ Coast Prairie Redox (A16) **(MLRA 149A)**
- ___ Reduced Vertic (F18) **(outside MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(LRR P, T)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 153B)**
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22) **(outside MLRA 138, 152A in FL, 154)**
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

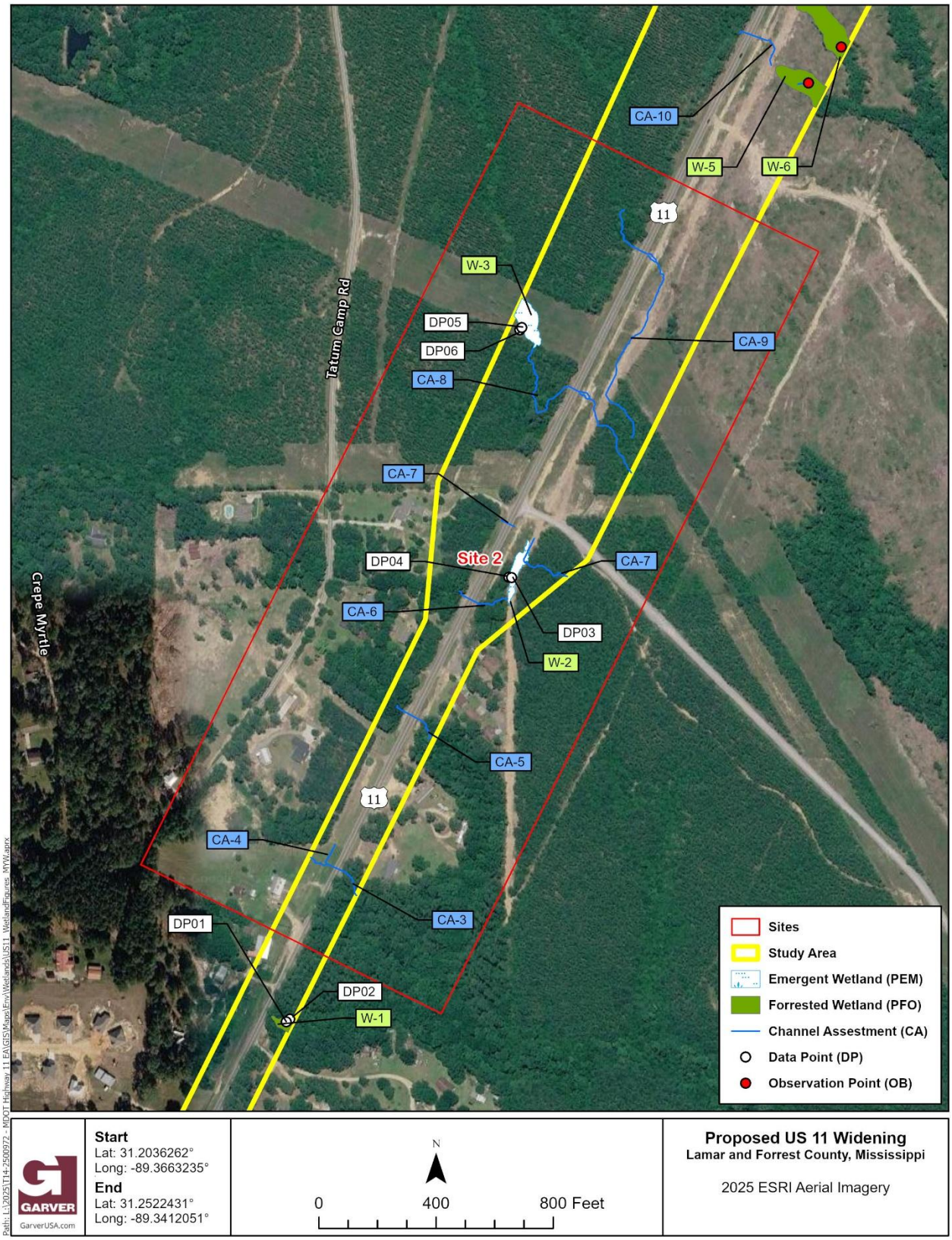
Depth (inches): _____

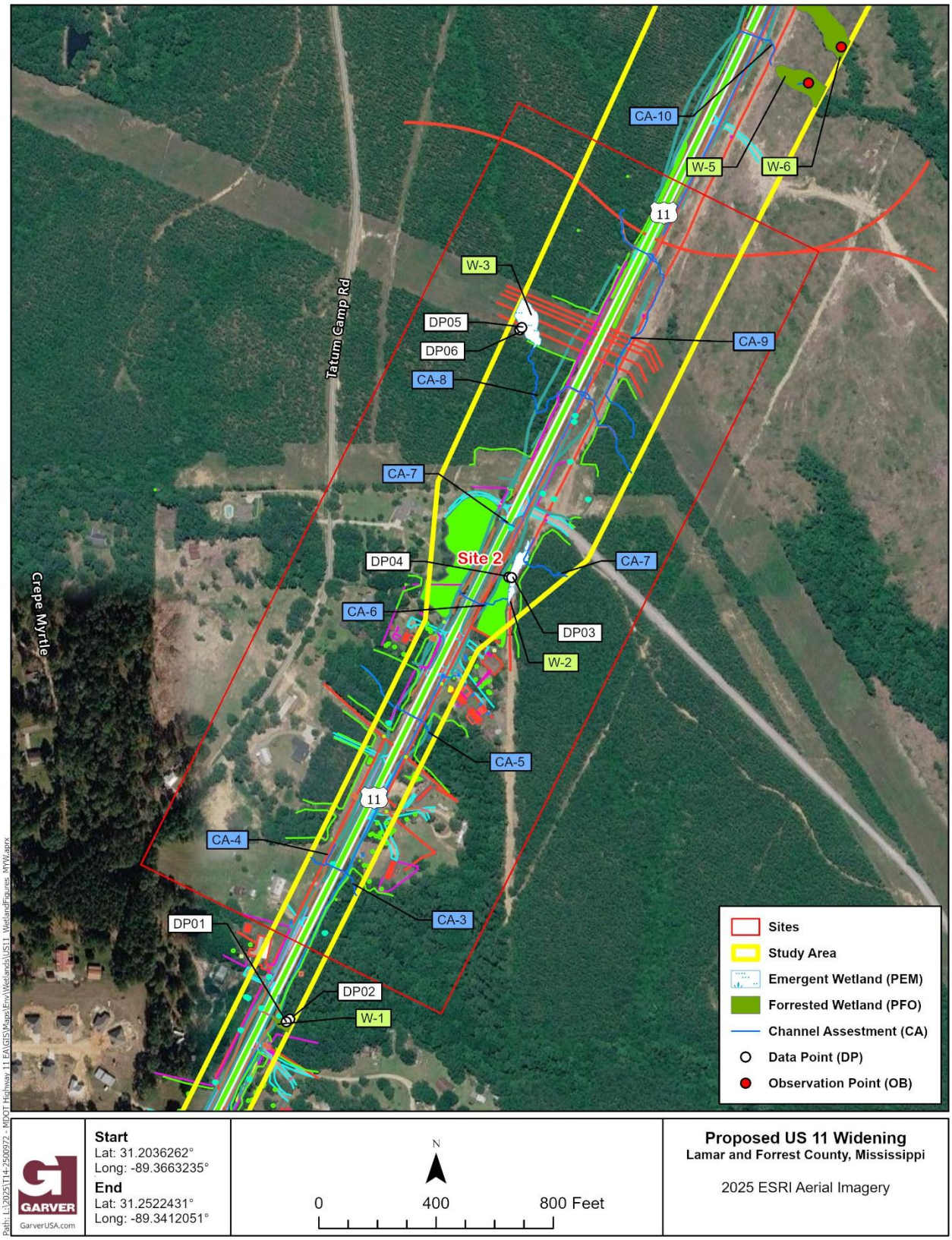
Hydric Soil Present? **Yes** ____ **No** X

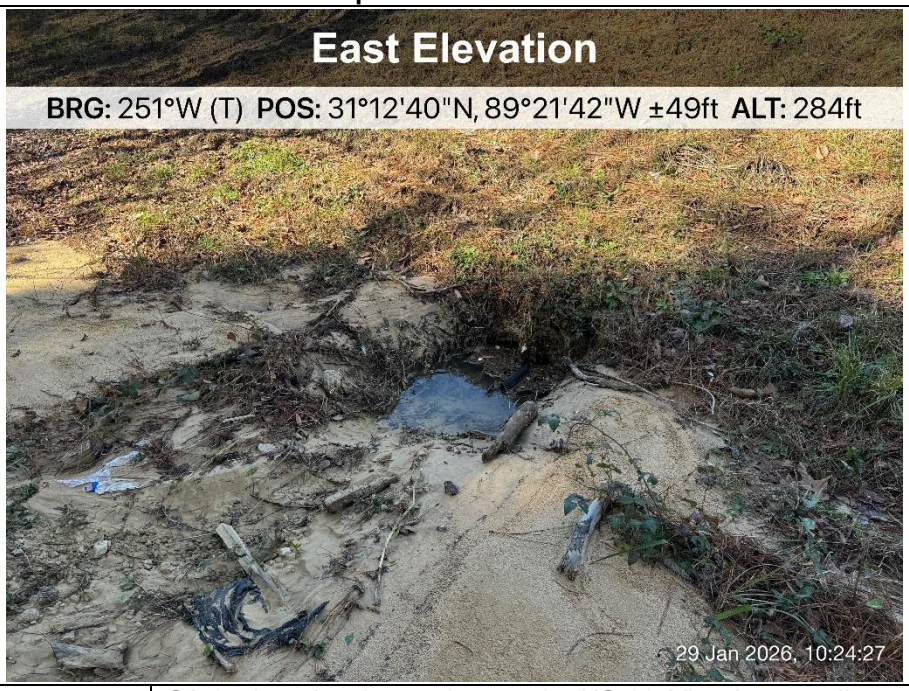
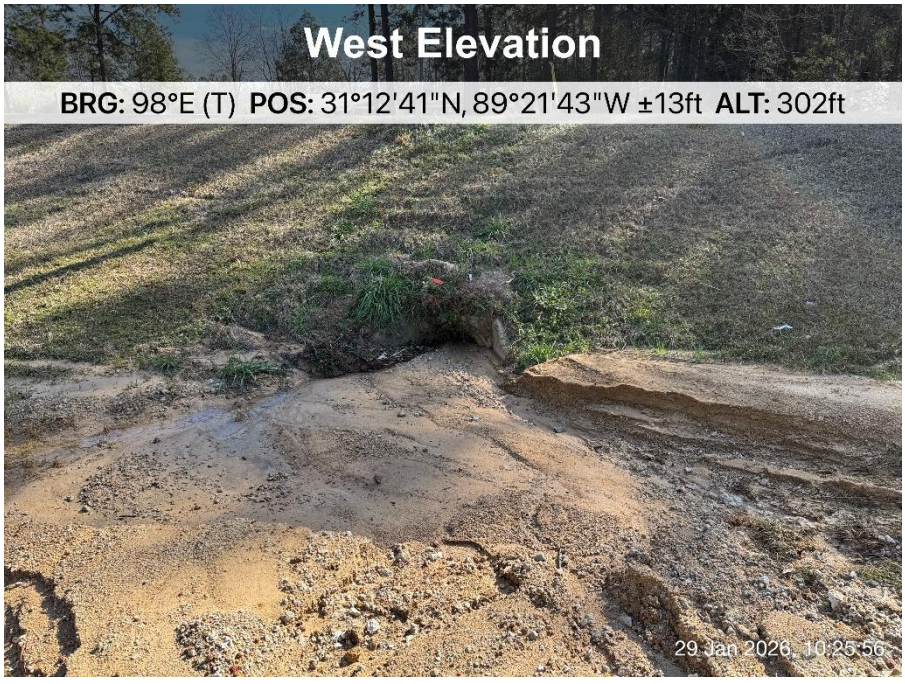
Remarks:
Site does not meet hydric soil criteria.

ENG FORM 6116-2, SEP 2024 Atlantic and Gulf Coastal Plain – Version 2.0

Site 2


CA-10
W-5
W-6
11
W-3
DP05
DP06
CA-8
Tatum Camp Rd
CA-9
CA-7
DP04
Site 2
CA-7
CA-6
DP03
W-2
Crepe Myrtle
CA-5
11
CA-4
CA-3
DP01
DP02
W-1
Sites
Study Area
Emergent Wetland (PEM)
Forrested Wetland (PFO)
Channel Assestment (CA)
Data Point (DP)
Observation Point (OB)
Start
Lat: 31.2036262°
Long: -89.3663235°
End
Lat: 31.2522431°
Long: -89.3412051°
GARVER
GarverUSA.com
N
0
400
800 Feet
Proposed US 11 Widening
Lamar and Forrest County, Mississippi
2025 ESRI Aerial Imagery
Path: L:\2025\T14-2500972 - MDOT Highway 11 EA\GIS\Maps\Env\Wetlands\US11_WetlandFigures_MYW.aprx


CA-10
W-5
W-6
11
W-3
DP05
DP06
CA-8
Tatum Camp Rd
CA-9
CA-7
Site 2
DP04
CA-7
CA-6
DP03
W-2
Crepe Myrtle
CA-5
11
CA-4
CA-3
DP01
DP02
W-1
Sites
Study Area
Emergent Wetland (PEM)
Forrested Wetland (PFO)
Channel Assestment (CA)
Data Point (DP)
Observation Point (OB)
Start
Lat: 31.2036262°
Long: -89.3663235°
End
Lat: 31.2522431°
Long: -89.3412051°
GARVER
GarverUSA.com
N
0
400
800 Feet
Proposed US 11 Widening
Lamar and Forrest County, Mississippi
2025 ESRI Aerial Imagery
Path: L:\2025\T14-2500972 - MDOT Highway 11 EA\GIS\Maps\Env\Wetlands\US11_WetlandFigures_MYW.aprx

CA-3	
Ephemeral Stream	
	
Description	CA-3 where it exits a culvert under US 11. View is upgradient to the west.
CA-3	
Ephemeral Stream	
	
Description	CA-3 where it enters a culvert under US 11. View is downgradient to the east.

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

Project: US 11 Improvements	**City/County/State:** Lamar County, Mississippi	
Investigator(s): Wilson Harper	**Lat:** 31.211399 **Long:** -89.362012	**Sample Location ID:** CA-3
Applicant/Owner: Mississippi Department of Transportation	**Date:** 1/29/2026	
Reason for Survey: Wetland Delineation		
River Basin/HUC Number: 03170007 **Size of Watershed:** 811,067 acres **Size of Drainage Area:** 2.3 acres	**Tributary Name (if known):** N/A **Nearest TNW:** Pascagoula River	

TRIBUTARY CHARACTERIZATION	**Tributary subsystem:** ☑ Ephemeral ☐ Intermittent ☐ Perennial **Tributary flows directly into a TNW?** **Explain:** No **Distance to nearest TNW:** River Miles: 73.3 Aerial Miles: 57.3 **Describe flow route to TNW:** Unnamed tributary into unnamed tributary, thence into Black Tom Creek, thence into Black Creek, thence into Big Black Creek, thence into Pascagoula River. **Tributary is** (natural / artificial / manipulated): **Explain:** Manipulated. Culvert beneath US 11.
WEATHER CONDITIONS	**Current:** ☐ rain (steady rain) ☐ showers (intermittent) ☐ cloud cover_____ (%) ☑ clear/ sunny air temperature: 38 (ºF) **Has there been heavy rain in the last 7 days?** No **Average Rainfall:** 0.03 (in.) **Comment:**
WATERSHED FEATURES	**Predominant surrounding landuse:** ☑ Forest ☐ Commercial ☑ Other (Explain): Transportation ☐ Field/Pasture ☐ Industrial ☐ Agricultural ☑ Residential

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

TRIBUTARY FEATURES	**Estimated reach length**: 236 (ft.) **Estimated channel width**: 1 (ft.) **Estimated channel depth**: 0.2 (ft.) **Channelized:** No **Dam present:** No **Estimated slope of banks**: vertical ☐ 2:1 ☐ 3:1 ☐ 4:1 ☐ greater ☑ **Substrate:** sand ☐ cobble ☐ silt ☑ gravel ☐
TRIBUTARY CONDITION	**Tributary has** (defined bed and banks / OHWM): **Explain:** Flowline. **Bank stability** (highly eroded, sloughing banks, etc): **Explain:** Stable **Riffle / Run / Pool complex:** No **Explain:** Not observed.
FLOW CONDITIONS	**Tributary geometry** (relatively straight, meandering, other): **Explain:** Relatively straight. **Current flow is** (discrete, confined, overland sheet flow, etc): **Explain:** None. **Average flow events per year:** Unknow
VEGETATION	**Approximate width of riparian buffer:** 0 - 100 (ft.) **Dominant species present** (top bank / buffer): *Quercus nigra, Pinus taeda, Liquidambar styraciflua, Ligustrum sinense, Lonicera japonica* **Aquatic vegetation present:** No **Comment:** Not observed.

CA-4	
Ephemeral Stream	
	
Description	CA-4 where it enters CA-3. View is upgradient to the northeast.
CA-4	
Ephemeral Stream	
	
Description	CA-4. View is downgradient to the southwest.

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

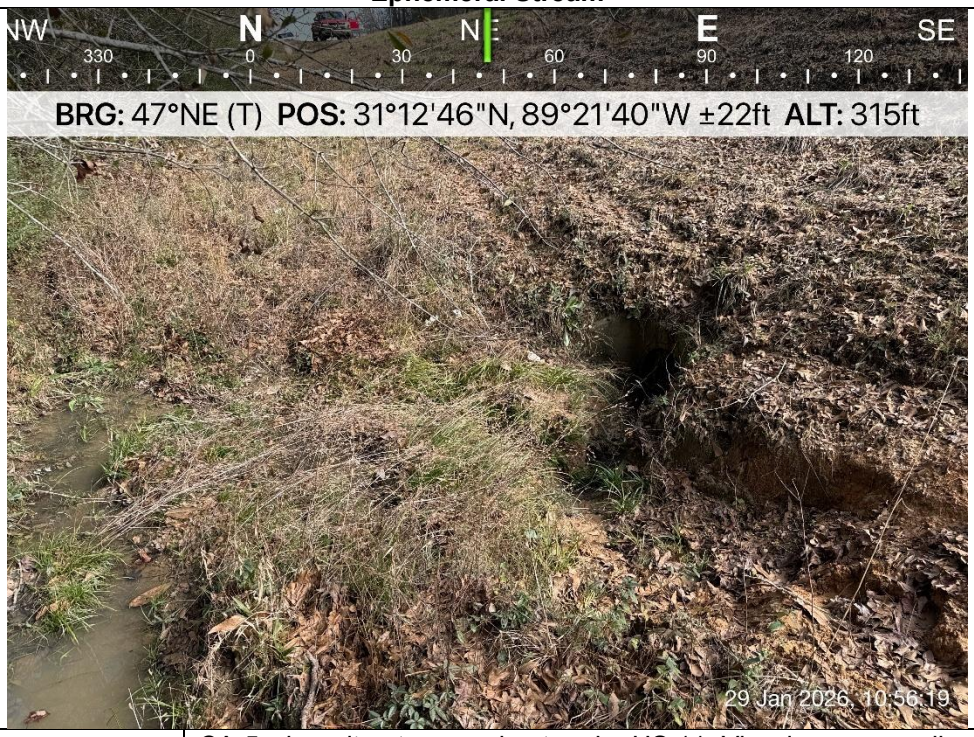
Project: US 11 Improvements	**City/County/State:** Lamar County, Mississippi	
Investigator(s): Wilson Harper	**Lat:** 31.211586 **Long:** -89.361935	**Sample Location ID:** CA-4
Applicant/Owner: Mississippi Department of Transportation	**Date:** 1/29/2026	
Reason for Survey: Wetland Delineation		
River Basin/HUC Number: 03170007 **Size of Watershed:** 811,067 acres **Size of Drainage Area:** 0.5 acres	**Tributary Name (if known):** N/A **Nearest TNW:** Pascagoula River	

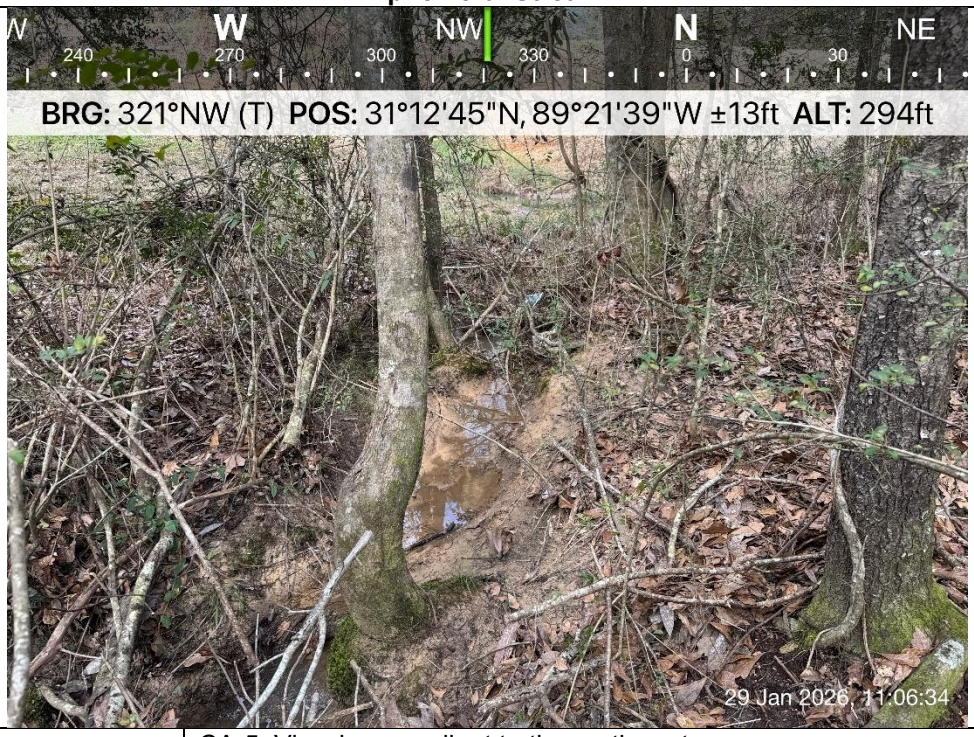
TRIBUTARY CHARACTERIZATION	**Tributary subsystem:** ☑ Ephemeral ☐ Intermittent ☐ Perennial **Tributary flows directly into a TNW?** **Explain:** No **Distance to nearest TNW:** River Miles: 73.3 Aerial Miles: 57.3 **Describe flow route to TNW:** Unnamed tributary into unnamed tributary, thence into unnamed tributary, thence into Black Tom Creek, thence into Black Creek, thence into Big Black Creek, thence into Pascagoula River. **Tributary is** (natural / artificial / manipulated): **Explain:** Artificial
WEATHER CONDITIONS	**Current:** ☐ rain (steady rain) ☐ showers (intermittent) ☐ cloud cover_____ (%) ☑ clear/ sunny air temperature: 38 (°F) **Has there been heavy rain in the last 7 days?** No **Average Rainfall:** 0.03 (in.) **Comment:**
WATERSHED FEATURES	**Predominant surrounding landuse:** ☑ Forest ☐ Commercial ☑ Other (Explain): Transportation ☐ Field/Pasture ☐ Industrial ☐ Agricultural ☑ Residential

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

TRIBUTARY FEATURES	**Estimated reach length**: 76 (ft.) **Estimated channel width**: 0.4 (ft.) **Estimated channel depth**: 0.2 (ft.) **Channelized:** Yes **Dam present:** No **Estimated slope of banks**: vertical ☐ 2:1 ☐ 3:1 ☑ 4:1 ☐ greater ☐ **Substrate:** sand ☐ cobble ☐ silt ☑ gravel ☐
TRIBUTARY CONDITION	**Tributary has** (defined bed and banks / OHWM): **Explain:** Flowline. **Bank stability** (highly eroded, sloughing banks, etc): **Explain:** Stable. **Riffle / Run / Pool complex:** No **Explain:** Not observed.
FLOW CONDITIONS	**Tributary geometry** (relatively straight, meandering, other): **Explain:** Straight. **Current flow is** (discrete, confined, overland sheet flow, etc): **Explain:** None. **Average flow events per year:** Unknow
VEGETATION	**Approximate width of riparian buffer:** 0 (ft.) **Dominant species present** (top bank / buffer): *Cynodon dactylon* **Aquatic vegetation present:** No **Comment:** Not observed.

CA-5	
Ephemeral Stream	
	
Description	CA-5 where it enters a culvert under US 11. View is cross gradient to the northeast.

CA-5	
Ephemeral Stream	
	
Description	CA-5. View is upgradient to the northwest

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

Project: US 11 Improvements	**City/County/State:** Lamar County, Mississippi	
Investigator(s): Wilson Harper	**Lat:** 31.212838 **Long:** -89.361188	**Sample Location ID:** CA-5
Applicant/Owner: Mississippi Department of Transportation	**Date:** 1/29/2026	
Reason for Survey: Wetland Delineation		
River Basin/HUC Number: 03170007 **Size of Watershed:** 811,067 acres **Size of Drainage Area:** 3.8 acres	**Tributary Name (if known):** N/A **Nearest TNW:** Pascagoula River	

TRIBUTARY CHARACTERIZATION	**Tributary subsystem:** ☑ Ephemeral ☐ Intermittent ☐ Perennial **Tributary flows directly into a TNW?** **Explain:** No **Distance to nearest TNW:** River Miles: 73.3 Aerial Miles: 57.3 **Describe flow route to TNW:** Unnamed tributary into unnamed tributary, thence into Black Tom Creek, thence into Black Creek, thence into Big Black Creek, thence into Pascagoula River. **Tributary is** (natural / artificial / manipulated): **Explain:** Manipulated. Culvert under US 11.
WEATHER CONDITIONS	**Current:** ☐ rain (steady rain) ☐ showers (intermittent) ☐ cloud cover_____ (%) ☑ clear/ sunny air temperature: 40 (°F) **Has there been heavy rain in the last 7 days?** No **Average Rainfall:** 0.03 (in.) **Comment:**
WATERSHED FEATURES	**Predominant surrounding landuse:** ☑ Forest ☐ Commercial ☑ Other (Explain): Transportation ☐ Field/Pasture ☐ Industrial ☐ Agricultural ☑ Residential

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

TRIBUTARY FEATURES	**Estimated reach length**: 187 (ft.) **Estimated channel width**: 1 (ft.) **Estimated channel depth**: 0.5 (ft.) **Channelized:** No **Dam present:** No **Estimated slope of banks**: vertical ☐ 2:1 ☐ 3:1 ☑ 4:1 ☐ greater ☐ **Substrate:** sand ☐ cobble ☐ silt ☑ gravel ☐
TRIBUTARY CONDITION	**Tributary has** (defined bed and banks / OHWM): **Explain:** OHWM. **Bank stability** (highly eroded, sloughing banks, etc): **Explain:** Relatively stable. **Riffle / Run / Pool complex:** No **Explain:** Not observed.
FLOW CONDITIONS	**Tributary geometry** (relatively straight, meandering, other): **Explain:** Relatively straight. **Current flow is** (discrete, confined, overland sheet flow, etc): **Explain:** None. **Average flow events per year:** Unknow
VEGETATION	**Approximate width of riparian buffer:** 50 (ft.) **Dominant species present** (top bank / buffer): *Magnolia virginiana, Quercus nigra, Ilex vomitoria,* **Aquatic vegetation present:** No **Comment:** Not observed.

CA-6	
Ephemeral Stream	
	
Description	CA-6. View is upgradient to the northwest.

CA-6	
Ephemeral Stream	
	
Description	CA-6. View is downgradient to the east.

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

Project: US 11 Improvements	**City/County/State:** Lamar County, Mississippi	
Investigator(s): Wilson Harper	**Lat:** 31.213930 **Long:** -89.360555	**Sample Location ID:** CA-6
Applicant/Owner: Mississippi Department of Transportation	**Date:** 1/29/2026	
Reason for Survey: Wetland Delineation		
River Basin/HUC Number: 03170007 **Size of Watershed:** 811,067 acres **Size of Drainage Area:** 1.5 acres	**Tributary Name (if known):** N/A **Nearest TNW:** Pascagoula River	

TRIBUTARY CHARACTERIZATION	**Tributary subsystem:** ☑ Ephemeral ☐ Intermittent ☐ Perennial **Tributary flows directly into a TNW?** **Explain:** No **Distance to nearest TNW:** River Miles: 73.3 Aerial Miles: 57.3 **Describe flow route to TNW:** Unnamed tributary into wetland 2, thence into unnamed tributary, thence into Black Tom Creek, thence into Black Creek, thence into Big Black Creek, thence into Pascagoula River. **Tributary is** (natural / artificial / manipulated): **Explain:** Manipulated. Culvert under US 11.
WEATHER CONDITIONS	**Current:** ☐ rain (steady rain) ☐ showers (intermittent) ☐ cloud cover_____ (%) ☑ clear/ sunny air temperature: 40 (°F) **Has there been heavy rain in the last 7 days?** No **Average Rainfall:** 0.03 (in.) **Comment:**
WATERSHED FEATURES	**Predominant surrounding landuse:** ☑ Forest ☐ Commercial ☑ Other (Explain): Transportation ☐ Field/Pasture ☐ Industrial ☐ Agricultural ☑ Residential

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

TRIBUTARY FEATURES	**Estimated reach length**: 200 (ft.) **Estimated channel width**: 0.5 (ft.) **Estimated channel depth**: 0.25 (ft.) **Channelized:** No **Dam present:** No **Estimated slope of banks**: vertical ☐ 2:1 ☐ 3:1 ☑ 4:1 ☐ greater ☐ **Substrate:** sand ☐ cobble ☐ silt ☑ gravel ☐
TRIBUTARY CONDITION	**Tributary has** (defined bed and banks / OHWM): **Explain:** OHWM. **Bank stability** (highly eroded, sloughing banks, etc): **Explain:** Relatively stable. **Riffle / Run / Pool complex:** No **Explain:** Not observed.
FLOW CONDITIONS	**Tributary geometry** (relatively straight, meandering, other): **Explain:** Relatively straight. **Current flow is** (discrete, confined, overland sheet flow, etc): **Explain:** None. **Average flow events per year:** Unknow
VEGETATION	**Approximate width of riparian buffer:** 50 (ft.) **Dominant species present** (top bank / buffer): *Magnolia virginiana, Quercus nigra, Ilex vomitoria,* **Aquatic vegetation present:** No **Comment:** Not observed.

W-2	
Emergent Wetland	
	
Description	W-2. View is to the north-northeast.
DP 3	
Hydric Soil	
	
Description	Hydric soil at DP 3 within W-2.

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: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: US 11 Improvements City/County: Lamar County Sampling Date: 1/29/2026
Applicant/Owner: MDOT State: MS Sampling Point: DP 03
Investigator(s): Wilson Harper Section, Township, Range: S 24, T 3 N, R 14 W
Landform (hillside, terrace, etc.): Valley Local relief (concave, convex, none): Concave Slope (%): 2
Subregion (LRR or MLRA): LRR P, MLRA 133C Lat: 31.214098 Long: -89.36002 Datum: WGS 84
Soil Map Unit Name: McLaurin-Lucy Association, rolling 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 X , Soil ____ , or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____ , Soil ____ , or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?** **Yes** X **No** ____
Hydric Soil Present?	Yes X	No ____	
Wetland Hydrology Present?	Yes X	No ____	

Remarks:
Site is drier than normal according to the USACE Antecedent Precipitation Too. Site meets all three criteria and is located within a wetland. Vegetation cleared and maintained for buried utliity easement.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- X Surface Water (A1)
- X High Water Table (A2)
- X Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- X Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- X Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15) **(LRR U)**
- ___ Hydrogen Sulfide Odor (C1)
- X Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- X Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- X FAC-Neutral Test (D5)
- ___ Sphagnum Moss (D8) **(LRR T, U)**

Field Observations:

Surface Water Present?	Yes X	No ____	Depth (inches): 2
Water Table Present?	Yes X	No ____	Depth (inches): 1
Saturation Present? (includes capillary fringe)	Yes X	No ____	Depth (inches): 0

Wetland Hydrology Present? **Yes** X **No** ____

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

Remarks:
Site meets wetland hydrology criteria.

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VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP 03

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	=Total Cover		
50% of total cover:	20% of total cover:		
Sapling/Shrub Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	=Total Cover		
50% of total cover:	20% of total cover:		
Herb Stratum (Plot size: 30')			
1. *Rhynchospora glomerata*	50	Yes	OBL
2. *Dichanthelium scoparium*	15	No	FACW
3. *Juncus effusus*	10	No	OBL
4. *Xyris laxifolia*	5	No	OBL
5. *Solidago altissima*	5	No	FACU
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	85 =Total Cover		
50% of total cover: 43	20% of total cover: 17		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
5.			
	=Total Cover		
50% of total cover:	20% of total cover:		

Dominance Test worksheet:

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/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)
Prevalence Index = B/A =	

Hydrophytic Vegetation Indicators:

X 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody Vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (If observed, list morphological adaptations below.)
Vegetation cleared and maintained for buried utliity easement. Site meets hydrophytic vegetation criteria.

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SOIL Sampling Point: DP 03

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	7.5YR 6/2	65	7.5YR 5/8	35	C	M	Loamy/Clayey	Prominent redox concentrations;sandy clay

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Organic Bodies (A6) **(LRR P, T, U)**
- ___ 5 cm Mucky Mineral (A7) **(LRR P, T, U)**
- ___ Muck Presence (A8) **(LRR U)**
- ___ 1 cm Muck (A9) **(LRR P, T)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Coast Prairie Redox (A16) **(MLRA 150A)**
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1) **(LRR O, S)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR P, S, T, U)**
- ___ Polyvalue Below Surface (S8) **(LRR S, T, U)**
- ___ Thin Dark Surface (S9) **(LRR S, T, U)**
- ___ Barrier Islands 1 cm Muck (S12) **(MLRA 153B, 153D)**
- ___ Loamy Mucky Mineral (F1) **(LRR O)**
- ___ Loamy Gleyed Matrix (F2)
- X Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) **(LRR U)**
- ___ Depleted Ochric (F11) **(MLRA 151)**
- ___ Iron-Manganese Masses (F12) **(LRR O, P, T)**
- ___ Umbric Surface (F13) **(LRR P, T, U)**
- ___ Delta Ochric (F17) **(MLRA 151)**
- ___ Reduced Vertic (F18) **(MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149A)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 149A, 153C, 153D)**
- ___ Very Shallow Dark Surface (F22) **(MLRA 138, 152A in FL, 154)**

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) **(LRR O)**
- ___ 2 cm Muck (A10) **(LRR S)**
- ___ Coast Prairie Redox (A16) **(MLRA 149A)**
- ___ Reduced Vertic (F18) **(outside MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(LRR P, T)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 153B)**
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22) **(outside MLRA 138, 152A in FL, 154)**
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks:
Site meets hydric soil criteria.

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CA-7	
Ephemeral Stream	
	
Description	CA-7. View is upgradient to the northwest.
CA-7	
Ephemeral Stream	
	
Description	CA-7. View is downgradient to the southwest.

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

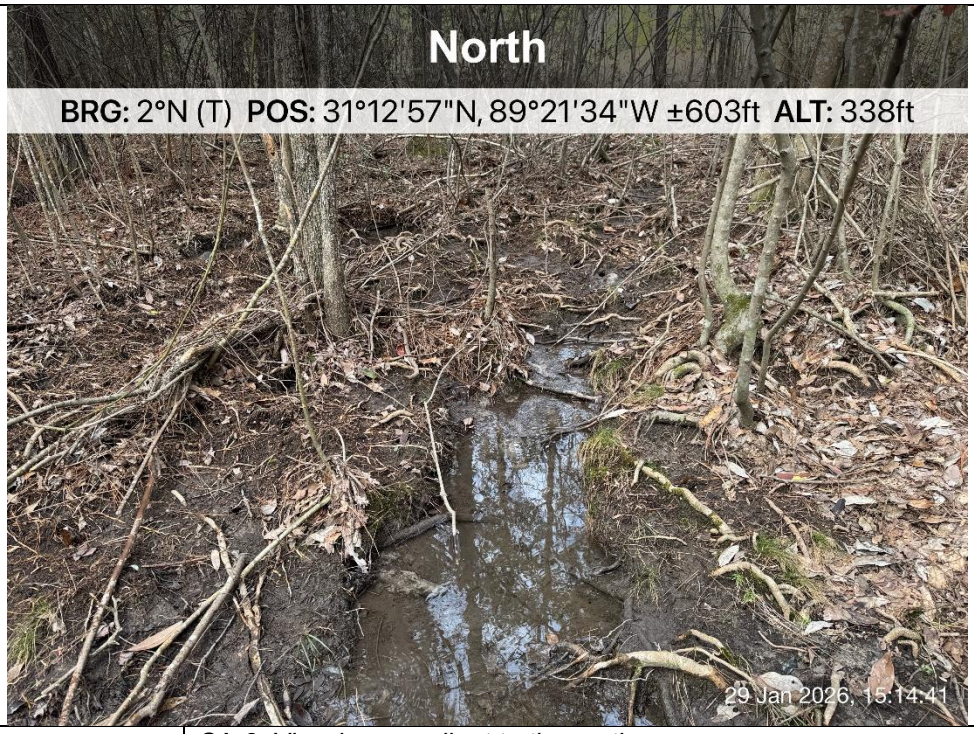
Project: US 11 Improvements	**City/County/State:** Lamar County, Mississippi	
Investigator(s): Wilson Harper	**Lat:** 31.214449 **Long:** -89.359777	**Sample Location ID:** CA-7
Applicant/Owner: Mississippi Department of Transportation	**Date:** 1/29/2026	
Reason for Survey: Wetland Delineation		
River Basin/HUC Number: 03170007 **Size of Watershed:** 811,067 acres **Size of Drainage Area:** 1.5 acres	**Tributary Name (if known):** N/A **Nearest TNW:** Pascagoula River	

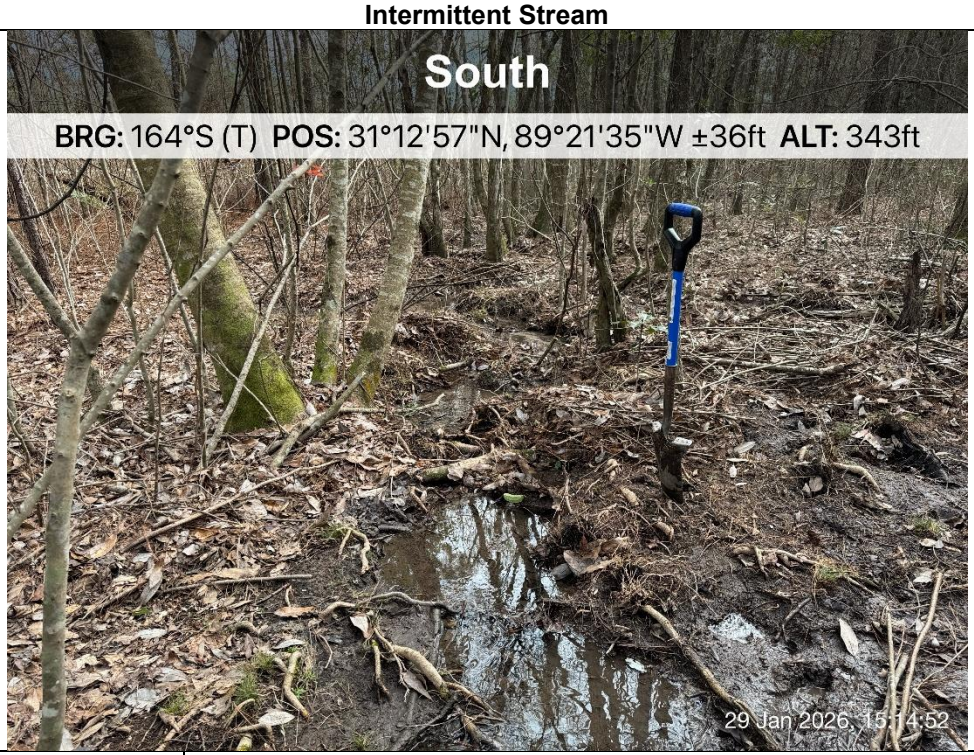
TRIBUTARY CHARACTERIZATION	**Tributary subsystem:** [✓] Ephemeral [ ] Intermittent [ ] Perennial **Tributary flows directly into a TNW?** **Explain:** No **Distance to nearest TNW:** River Miles: 73.3 Aerial Miles: 57.3 **Describe flow route to TNW:** Unnamed tributary into wetland 2, thence into unnamed tributary, thence into Black Tom Creek, thence into Black Creek, thence into Big Black Creek, thence into Pascagoula River. **Tributary is** (natural / artificial / manipulated): **Explain:** Manipulated. Culvert under US 11.
WEATHER CONDITIONS	**Current:** [ ] rain (steady rain) [ ] showers (intermittent) [ ] cloud cover_____ (%) [✓] clear/ sunny air temperature: 42 (°F) **Has there been heavy rain in the last 7 days?** No **Average Rainfall:** 0.03 (in.) **Comment:**
WATERSHED FEATURES	**Predominant surrounding landuse:** [✓] Forest [ ] Commercial [✓] Other (Explain): Transportation [ ] Field/Pasture [ ] Industrial [ ] Agricultural [✓] Residential

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

TRIBUTARY FEATURES	**Estimated reach length**: 333 (ft.) **Estimated channel width**: 1 (ft.) **Estimated channel depth**: 0.25 (ft.) **Channelized:** No **Dam present:** No **Estimated slope of banks**: vertical ☐ 2:1 ☑ 3:1 ☐ 4:1 ☐ greater ☐ **Substrate:** sand ☑ cobble ☐ silt ☑ gravel ☐
TRIBUTARY CONDITION	**Tributary has** (defined bed and banks / OHWM): **Explain:** OHWM. **Bank stability** (highly eroded, sloughing banks, etc): **Explain:** Relatively stable. **Riffle / Run / Pool complex:** No **Explain:** Not observed.
FLOW CONDITIONS	**Tributary geometry** (relatively straight, meandering, other): **Explain:** Relatively straight. **Current flow is** (discrete, confined, overland sheet flow, etc): **Explain:** None. **Average flow events per year:** Unknow
VEGETATION	**Approximate width of riparian buffer:** 0 - 200 (ft.) **Dominant species present** (top bank / buffer): *Pinus taeda, Quercus nigra, Rhynchospora glomerata* **Aquatic vegetation present:** No **Comment:** Not observed.

CA-8	
Intermittent Stream	
	
Description	CA-8. View is upgradient to the north.

CA-8	
Intermittent Stream	
	
Description	CA-8. View is downgradient to the south.

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

Project: US 11 Improvements	**City/County/State:** Lamar County, Mississippi	
Investigator(s): Wilson Harper	**Lat:** 31.216247 **Long:** -89.359802	**Sample Location ID:** CA-8
Applicant/Owner: Mississippi Department of Transportation	**Date:** 1/29/2026	
Reason for Survey: Wetland Delineation		
River Basin/HUC Number: 03170007 **Size of Watershed:** 811,067 acres **Size of Drainage Area:** 15 acres	**Tributary Name (if known):** N/A **Nearest TNW:** Pascagoula River	

TRIBUTARY CHARACTERIZATION	**Tributary subsystem:** ☐ Ephemeral ☑ Intermittent ☐ Perennial **Tributary flows directly into a TNW?** **Explain:** No **Distance to nearest TNW:** River Miles: 74.6 Aerial Miles: 57.5 **Describe flow route to TNW:** Unnamed tributary into unnamed tributary, thence into Black Tom Creek, thence into Black Creek, thence into Big Black Creek, thence into Pascagoula River. **Tributary is** (natural / artificial / manipulated): **Explain:** Manipulated. Culvert under US 11.
WEATHER CONDITIONS	**Current:** ☐ rain (steady rain) ☐ showers (intermittent) ☐ cloud cover_____ (%) ☑ clear/ sunny air temperature: 49 (°F) **Has there been heavy rain in the last 7 days?** No **Average Rainfall:** 0.03 (in.) **Comment:**
WATERSHED FEATURES	**Predominant surrounding landuse:** ☑ Forest ☐ Commercial ☑ Other (Explain): Transportation ☐ Field/Pasture ☐ Industrial ☐ Agricultural ☐ Residential

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

TRIBUTARY FEATURES	**Estimated reach length**: 861 (ft.) **Estimated channel width**: 2 (ft.) **Estimated channel depth**: 1 (ft.) **Channelized:** No **Dam present:** No **Estimated slope of banks**: vertical ☐ 2:1 ☑ 3:1 ☐ 4:1 ☐ greater ☐ **Substrate:** sand ☑ cobble ☐ silt ☑ gravel ☐
TRIBUTARY CONDITION	**Tributary has** (defined bed and banks / OHWM): **Explain:** OHWM **Bank stability** (highly eroded, sloughing banks, etc): **Explain:** Relatively stable **Riffle / Run / Pool complex:** Yes **Explain:** All observed
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:** Unknow
VEGETATION	**Approximate width of riparian buffer:** 0 - 200 (ft.) **Dominant species present** (top bank / buffer): *Pinus taeda, Magnolia virginiana* **Aquatic vegetation present:** No **Comment:** Not observed

CA-9	
Intermittent Stream	
	
Description	CA-9. View is upgradient to the north.
CA-9	
Intermittent Stream	
	
Description	CA-9. View is downgradient to the southwest.

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

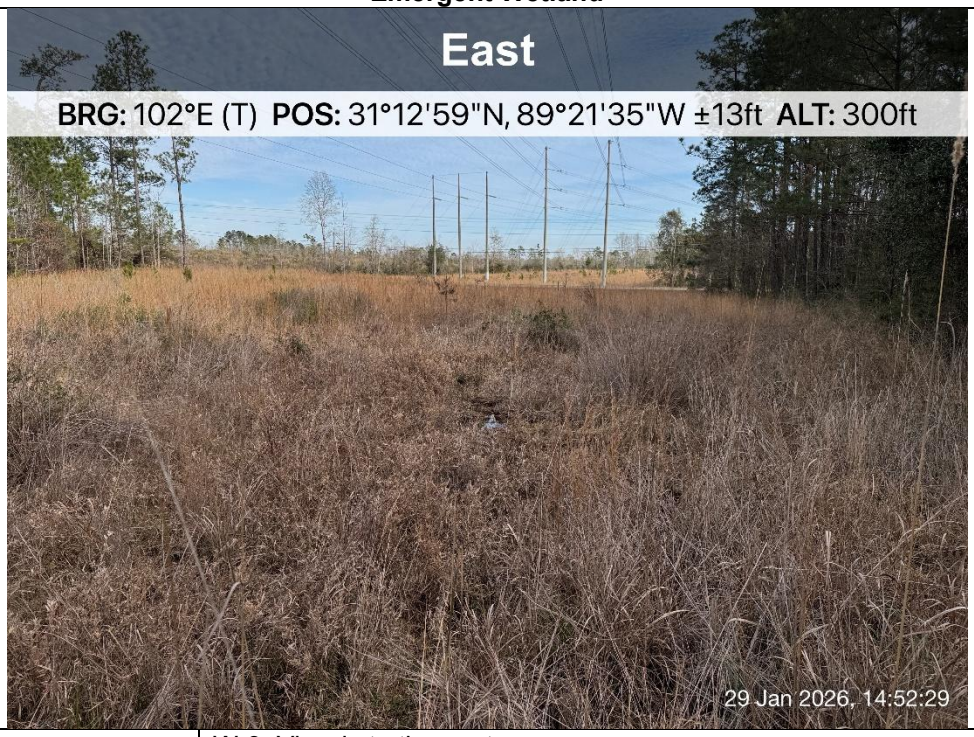
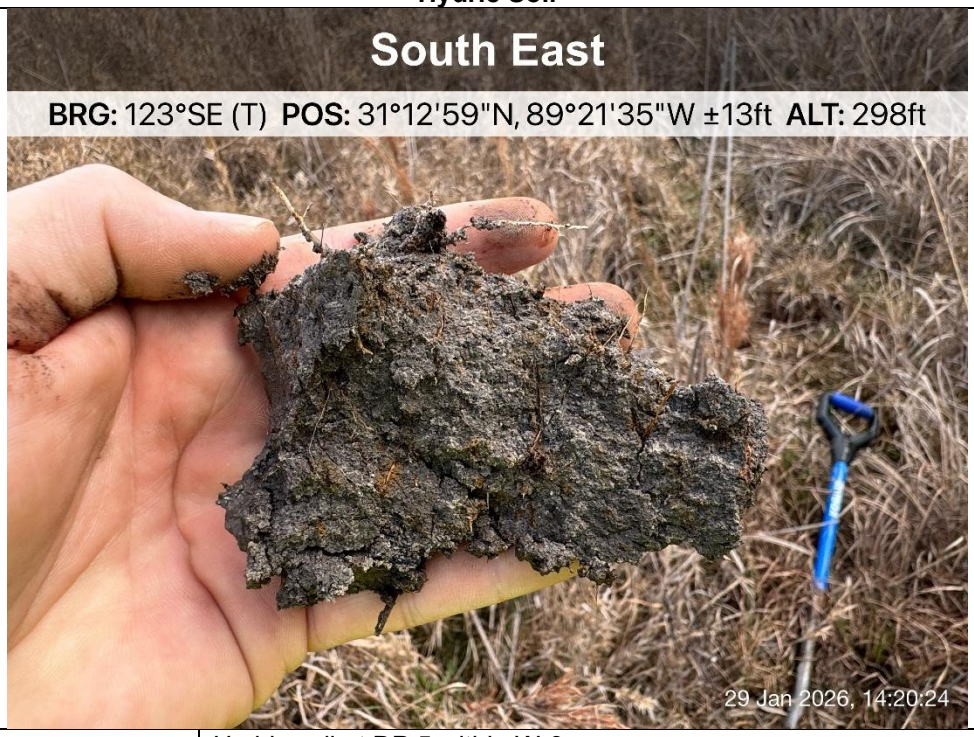
Project: US 11 Improvements	**City/County/State:** Lamar County, Mississippi	
Investigator(s): Wilson Harper	**Lat:** 31.217185 **Long:** -89.358666	**Sample Location ID:** CA-9
Applicant/Owner: Mississippi Department of Transportation	**Date:** 1/29/2026	
Reason for Survey: Wetland Delineation		
River Basin/HUC Number: 03170007 **Size of Watershed:** 811,067 acres **Size of Drainage Area:** 17 acres	**Tributary Name (if known):** N/A **Nearest TNW:** Pascagoula River	

TRIBUTARY CHARACTERIZATION	**Tributary subsystem:** ☐ Ephemeral ☑ Intermittent ☐ Perennial **Tributary flows directly into a TNW?** **Explain:** No **Distance to nearest TNW:** River Miles: 74.6 Aerial Miles: 57.5 **Describe flow route to TNW:** Unnamed tributary into unnamed tributary (CA-8), thence unnamed tributary, thence into Black Tom Creek, thence into Black Creek, thence into Big Black Creek, thence into Pascagoula River. **Tributary is** (natural / artificial / manipulated): **Explain:** Manipulated. Culvert under US 11.
WEATHER CONDITIONS	**Current:** ☐ rain (steady rain) ☐ showers (intermittent) ☐ cloud cover_____ (%) ☑ clear/ sunny air temperature: 56 (°F) **Has there been heavy rain in the last 7 days?** No **Average Rainfall:** 0.03 (in.) **Comment:**
WATERSHED FEATURES	**Predominant surrounding landuse:** ☑ Forest ☐ Commercial ☑ Other (Explain): Transportation ☑ Field/Pasture ☐ Industrial ☐ Agricultural ☐ Residential

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

TRIBUTARY FEATURES	**Estimated reach length**: 1,015 (ft.) **Estimated channel width**: 2 (ft.) **Estimated channel depth**: 1 (ft.) **Channelized:** No **Dam present:** No **Estimated slope of banks**: vertical ☐ 2:1 ☑ 3:1 ☐ 4:1 ☐ greater ☐ **Substrate:** sand ☑ cobble ☐ silt ☑ gravel ☐
TRIBUTARY CONDITION	**Tributary has** (defined bed and banks / OHWM): **Explain:** OHWM **Bank stability** (highly eroded, sloughing banks, etc): **Explain:** Relatively stable **Riffle / Run / Pool complex:** Yes **Explain:** All observed
FLOW CONDITIONS	**Tributary geometry** (relatively straight, meandering, other): **Explain:** Meandering **Current flow is** (discrete, confined, overland sheet flow, etc): **Explain:** Confined. Springs and disappearing channels were observed. **Average flow events per year:** Unknow
VEGETATION	**Approximate width of riparian buffer:** 0 - 200 (ft.) **Dominant species present** (top bank / buffer): *Pinus taeda, Magnolia virginiana* **Aquatic vegetation present:** No **Comment:** Not observed.

W-3	
Emergent Wetland	
	
Description	W-3. View is to the east.
DP 5	
Hydric Soil	
	
Description	Hydric soil at DP 5 within W-3.

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: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: US 11 Improvements City/County: Lamar County Sampling Date: 1/29/2026
Applicant/Owner: MDOT State: MS Sampling Point: DP 05
Investigator(s): Wilson Harper Section, Township, Range: S 13, T 3 N, R 14 W
Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 1
Subregion (LRR or MLRA): LRR P, MLRA 133C Lat: 31.216445 Long: -89.359921 Datum: WGS 84
Soil Map Unit Name: McLaurin-Lucy Association, rolling 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 X, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?** **Yes** X **No** ____
Hydric Soil Present?	Yes X	No ____	
Wetland Hydrology Present?	Yes X	No ____	

Remarks:
Site is drier than normal according to the USACE Antecedent Precipitation Tool. Site meets all three criteria and is located within a wetland. Vegetation cleared and maintained for buried utliity easement.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- X Surface Water (A1)
- X High Water Table (A2)
- X Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- X Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15) **(LRR U)**
- ___ Hydrogen Sulfide Odor (C1)
- X Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- X Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- X FAC-Neutral Test (D5)
- ___ Sphagnum Moss (D8) **(LRR T, U)**

Field Observations:

Surface Water Present?	Yes X	No ____	Depth (inches): 4
Water Table Present?	Yes X	No ____	Depth (inches): 4
Saturation Present? (includes capillary fringe)	Yes X	No ____	Depth (inches): 0

Wetland Hydrology Present? **Yes** X **No** ____

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

Remarks:
Site meets wetland hydrology criteria. Springs/seeps and disappearing/reappearing channels observed at multiple locations within this site.

ENG FORM 6116-2, SEP 2024 Atlantic and Gulf Coastal Plain – Version 2.0

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP 05

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	=Total Cover		
50% of total cover:	20% of total cover:		
Sapling/Shrub Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	=Total Cover		
50% of total cover:	20% of total cover:		
Herb Stratum (Plot size: 30')			
1. *Dichanthelium scoparium*	40	Yes	FACW
2. *Typha latifolia*	25	Yes	OBL
3. *Andropogon glomeratus*	10	No	FACW
4. *Panicum virgatum*	5	No	FAC
5. *Rhexia mariana*	5	No	FACW
6. *Rhynchospora cephalantha*	5	No	OBL
7. *Xyris laxifolia*	5	No	OBL
8.			
9.			
10.			
11.			
12.			
	95 =Total Cover		
50% of total cover: 48	20% of total cover: 19		
Woody Vine Stratum (Plot size: 30')			
1. *Rubus trivialis*	5	Yes	FACU
2.			
3.			
4.			
5.			
	5 =Total Cover		
50% of total cover: 3	20% of total cover: 1		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)
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]

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody Vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (If observed, list morphological adaptations below.)
Vegetation mowed/maintained for overhead powerline easement. Site meets hydrophytic vegetation criteria.

ENG FORM 6116-2, SEP 2024 Atlantic and Gulf Coastal Plain – Version 2.0

SOIL Sampling Point: DP 05

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-2	7.5YR 2.5/1	100					Loamy/Clayey	Silty loam
2-12	7.5YR 4/1	95	7.5YR 4/6	5	C	M	Loamy/Clayey	Prominent redox concentrations

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Organic Bodies (A6) **(LRR P, T, U)**
- ___ 5 cm Mucky Mineral (A7) **(LRR P, T, U)**
- ___ Muck Presence (A8) **(LRR U)**
- ___ 1 cm Muck (A9) **(LRR P, T)**
- X Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Coast Prairie Redox (A16) **(MLRA 150A)**
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1) **(LRR O, S)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR P, S, T, U)**
- ___ Polyvalue Below Surface (S8) **(LRR S, T, U)**
- ___ Thin Dark Surface (S9) **(LRR S, T, U)**
- ___ Barrier Islands 1 cm Muck (S12) **(MLRA 153B, 153D)**
- ___ Loamy Mucky Mineral (F1) **(LRR O)**
- ___ Loamy Gleyed Matrix (F2)
- X Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) **(LRR U)**
- ___ Depleted Ochric (F11) **(MLRA 151)**
- ___ Iron-Manganese Masses (F12) **(LRR O, P, T)**
- ___ Umbric Surface (F13) **(LRR P, T, U)**
- ___ Delta Ochric (F17) **(MLRA 151)**
- ___ Reduced Vertic (F18) **(MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149A)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 149A, 153C, 153D)**
- ___ Very Shallow Dark Surface (F22) **(MLRA 138, 152A in FL, 154)**

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) **(LRR O)**
- ___ 2 cm Muck (A10) **(LRR S)**
- ___ Coast Prairie Redox (A16) **(MLRA 149A)**
- ___ Reduced Vertic (F18) **(outside MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(LRR P, T)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 153B)**
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22) **(outside MLRA 138, 152A in FL, 154)**
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks:
Site meets hydric soil criteria.

ENG FORM 6116-2, SEP 2024 Atlantic and Gulf Coastal Plain – Version 2.0

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: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: US 11 Improvements City/County: Lamar County Sampling Date: 1/29/2026
Applicant/Owner: MDOT State: MS Sampling Point: DP 04
Investigator(s): Wilson Harper Section, Township, Range: S 24, T 3 N, R 14 W
Landform (hillside, terrace, etc.): Hillside Local relief (concave, convex, none): Convex Slope (%): 2
Subregion (LRR or MLRA): LRR P, MLRA 133C Lat: 31.214100 Long: -89.36005 Datum: WGS 84
Soil Map Unit Name: McLaurin-Lucy Association, rolling 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 X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes X	No ____	

Remarks:
Site is drier than normal according to the USACE Antecedent Precipitation Tool. Site does not meet all three criteria and is not located within a wetland.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- X Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15) **(LRR U)**
- ___ Hydrogen Sulfide Odor (C1)
- X Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- X Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- X 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): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes X	No ____	Depth (inches): 2

Wetland Hydrology Present? **Yes** X **No** ____

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

Remarks:
Site meets wetland hydrology criteria.

ENG FORM 6116-2, SEP 2024 Atlantic and Gulf Coastal Plain – Version 2.0

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP 04

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. *Pinus taeda*	20	Yes	FAC
2. *Quercus nigra*	20	Yes	FAC
3. *Liquidambar styraciflua*	10	No	FAC
4. *Magnolia grandiflora*	10	No	FAC
5.			
6.			
7.			
8.			
	60	=Total Cover	
50% of total cover: 30		20% of total cover:	12
Sapling/Shrub Stratum (Plot size: 30')			
1. *Ligustrum sinense*	10	Yes	FAC
2. *Quercus falcata*	10	Yes	FACU
3. *Baccharis halimifolia*	5	Yes	FAC
4.			
5.			
6.			
7.			
8.			
	25	=Total Cover	
50% of total cover: 13		20% of total cover:	5
Herb Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
		=Total Cover	
50% of total cover:		20% of total cover:	
Woody Vine Stratum (Plot size: 30')			
1. *Lonicera japonica*	10	Yes	FACU
2. *Smilax rotundifolia*	10	Yes	FAC
3.			
4.			
5.			
	20	=Total Cover	
50% of total cover: 10		20% of total cover:	4

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 71.4% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	85	x 3 =	255
FACU species	20	x 4 =	80
UPL species	0	x 5 =	0
Column Totals:	105 (A)		335 (B)

Prevalence Index = B/A = 3.19

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 be present, unless disturbed or problematic.

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody Vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (If observed, list morphological adaptations below.)
Site meets hydrophytic vegetation criteria.

ENG FORM 6116-2, SEP 2024 Atlantic and Gulf Coastal Plain – Version 2.0

SOIL Sampling Point: DP 04

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	7.5YR 3/1	100					Loamy/Clayey	
4-12	10YR 4/1	100					Loamy/Clayey	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Organic Bodies (A6) **(LRR P, T, U)**
- ___ 5 cm Mucky Mineral (A7) **(LRR P, T, U)**
- ___ Muck Presence (A8) **(LRR U)**
- ___ 1 cm Muck (A9) **(LRR P, T)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Coast Prairie Redox (A16) **(MLRA 150A)**
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1) **(LRR O, S)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR P, S, T, U)**
- ___ Polyvalue Below Surface (S8) **(LRR S, T, U)**
- ___ Thin Dark Surface (S9) **(LRR S, T, U)**
- ___ Barrier Islands 1 cm Muck (S12) **(MLRA 153B, 153D)**
- ___ Loamy Mucky Mineral (F1) **(LRR O)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) **(LRR U)**
- ___ Depleted Ochric (F11) **(MLRA 151)**
- ___ Iron-Manganese Masses (F12) **(LRR O, P, T)**
- ___ Umbric Surface (F13) **(LRR P, T, U)**
- ___ Delta Ochric (F17) **(MLRA 151)**
- ___ Reduced Vertic (F18) **(MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149A)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 149A, 153C, 153D)**
- ___ Very Shallow Dark Surface (F22) **(MLRA 138, 152A in FL, 154)**

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) **(LRR O)**
- ___ 2 cm Muck (A10) **(LRR S)**
- ___ Coast Prairie Redox (A16) **(MLRA 149A)**
- ___ Reduced Vertic (F18) **(outside MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(LRR P, T)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 153B)**
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22) **(outside MLRA 138, 152A in FL, 154)**
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ____ **No** X

Remarks:
Site does not meet hydric soil criteria.

ENG FORM 6116-2, SEP 2024 Atlantic and Gulf Coastal Plain – Version 2.0

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: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: US 11 Improvements City/County: Lamar County Sampling Date: 1/29/2026
Applicant/Owner: MDOT State: MS Sampling Point: DP 06
Investigator(s): Wilson Harper Section, Township, Range: S 13, T 3 N, R 14 W
Landform (hillside, terrace, etc.): Hillside Local relief (concave, convex, none): Convex Slope (%): 3
Subregion (LRR or MLRA): LRR P, MLRA 133C Lat: 31.216422 Long: -89.359945 Datum: WGS 84
Soil Map Unit Name: McLaurin-Lucy Association, rolling 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 X , Soil ____ , or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____ , Soil ____ , or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes ____	No X	

Remarks:
Site is drier than normal according to the USACE Antecedent Precipitation Tool. Vegetation mowed/maintained for overhead powerline easement. Site does not meet all three criteria and is not located within a wetland.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)
- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15) **(LRR U)**
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary 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): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

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

Remarks:
Site does not meet wetland hydrology criteria.

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VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP 06

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	=Total Cover		
50% of total cover:	20% of total cover:		
Sapling/Shrub Stratum (Plot size: 30')			
1. *Baccharis halimifolia*	10	Yes	FAC
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	10 =Total Cover		
50% of total cover: 5	20% of total cover:	2	
Herb Stratum (Plot size: 30')			
1. *Andropogon glomeratus*	60	Yes	FACW
2. *Euthamia caroliniana*	15	No	FAC
3. *Solidago altissima*	10	No	FACU
4. *Panicum virgatum*	10	No	FAC
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	95 =Total Cover		
50% of total cover: 48	20% of total cover:	19	
Woody Vine Stratum (Plot size: 30')			
1. *Rubus trivialis*	5	Yes	FACU
2.			
3.			
4.			
5.			
	5 =Total Cover		
50% of total cover: 3	20% of total cover:	1	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	60	x 2 =	120
FAC species	35	x 3 =	105
FACU species	15	x 4 =	60
UPL species	0	x 5 =	0
Column Totals:	110 (A)		285 (B)
Prevalence Index = B/A =			2.59

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 be present, unless disturbed or problematic.

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody Vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (If observed, list morphological adaptations below.)
Site meets hydrophytic vegetation criteria. Vegetation mowed/maintained for overhead powerline easement.

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SOIL Sampling Point: DP 06

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-7	7.5YR 2.5/1	100					Loamy/Clayey	Sandy-Silt Loam
7-12	10YR 5/4	80					Loamy/Clayey	Sandy-Silt Loam

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Organic Bodies (A6) **(LRR P, T, U)**
- ___ 5 cm Mucky Mineral (A7) **(LRR P, T, U)**
- ___ Muck Presence (A8) **(LRR U)**
- ___ 1 cm Muck (A9) **(LRR P, T)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Coast Prairie Redox (A16) **(MLRA 150A)**
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1) **(LRR O, S)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR P, S, T, U)**
- ___ Polyvalue Below Surface (S8) **(LRR S, T, U)**
- ___ Thin Dark Surface (S9) **(LRR S, T, U)**
- ___ Barrier Islands 1 cm Muck (S12) **(MLRA 153B, 153D)**
- ___ Loamy Mucky Mineral (F1) **(LRR O)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) **(LRR U)**
- ___ Depleted Ochric (F11) **(MLRA 151)**
- ___ Iron-Manganese Masses (F12) **(LRR O, P, T)**
- ___ Umbric Surface (F13) **(LRR P, T, U)**
- ___ Delta Ochric (F17) **(MLRA 151)**
- ___ Reduced Vertic (F18) **(MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149A)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 149A, 153C, 153D)**
- ___ Very Shallow Dark Surface (F22) **(MLRA 138, 152A in FL, 154)**

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) **(LRR O)**
- ___ 2 cm Muck (A10) **(LRR S)**
- ___ Coast Prairie Redox (A16) **(MLRA 149A)**
- ___ Reduced Vertic (F18) **(outside MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(LRR P, T)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 153B)**
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22) **(outside MLRA 138, 152A in FL, 154)**
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

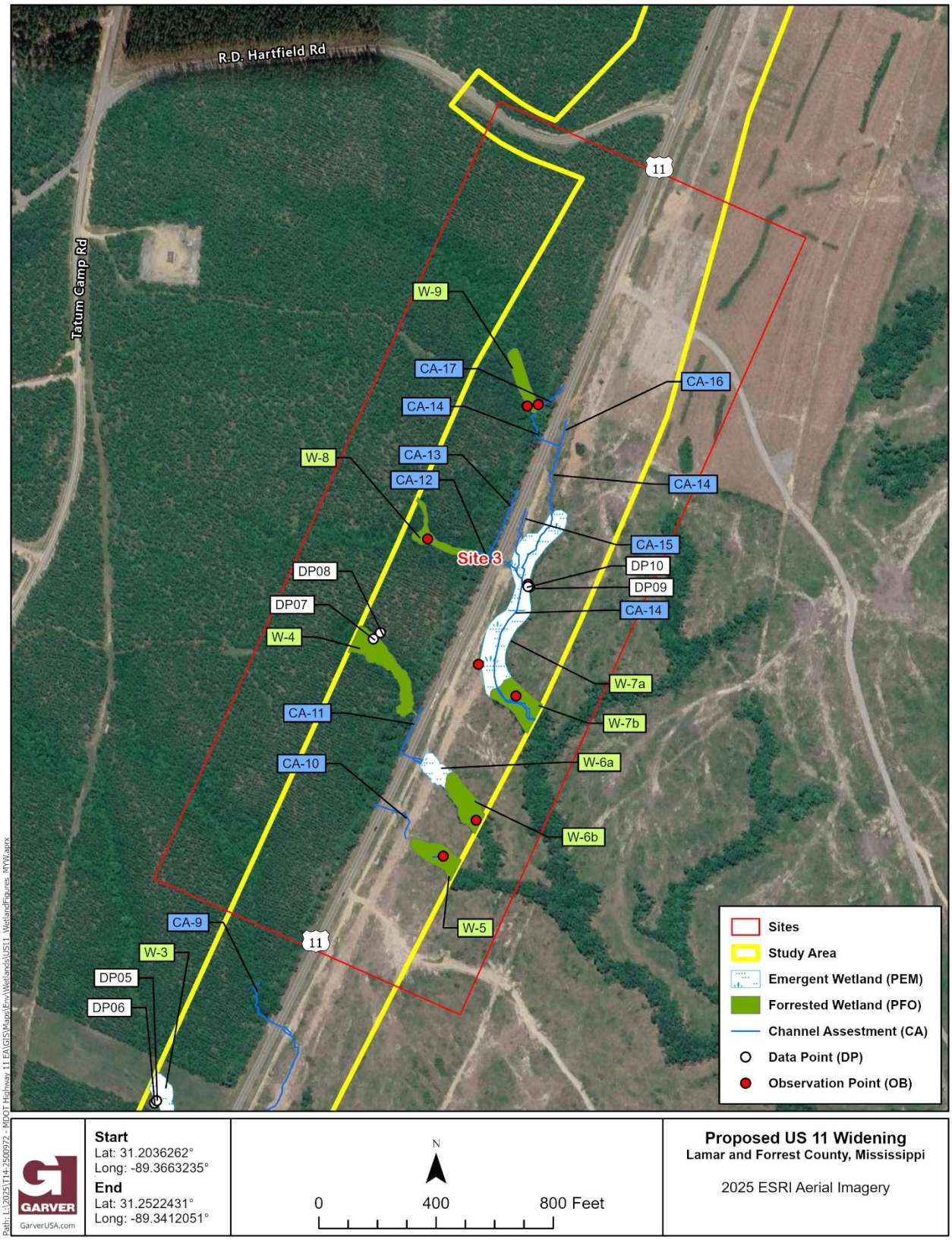
Hydric Soil Present? **Yes** ____ **No** X

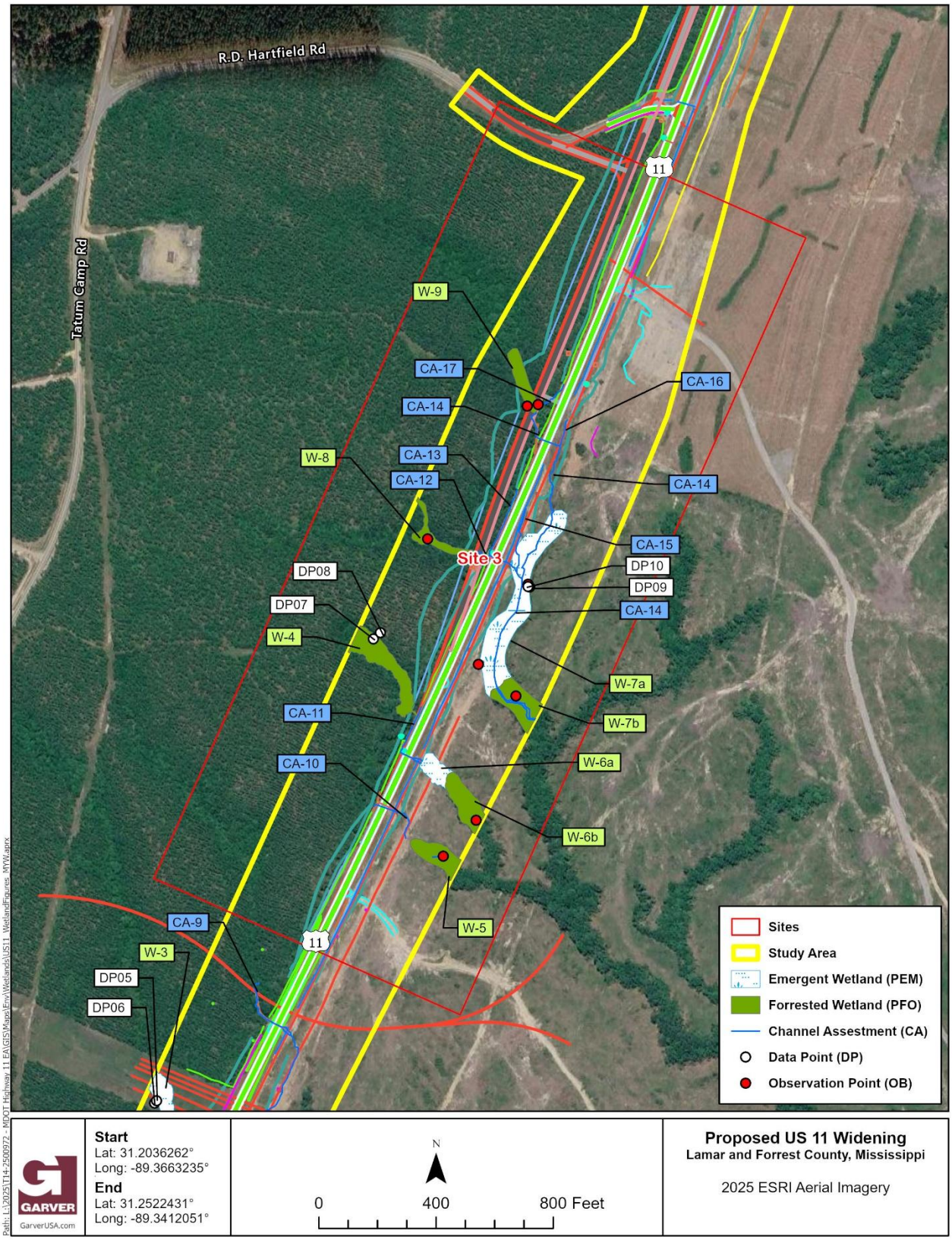
Remarks:

7"-12" second matrix color: 10YR 6/6, 20%. Site does not meet hydric soil criteria.

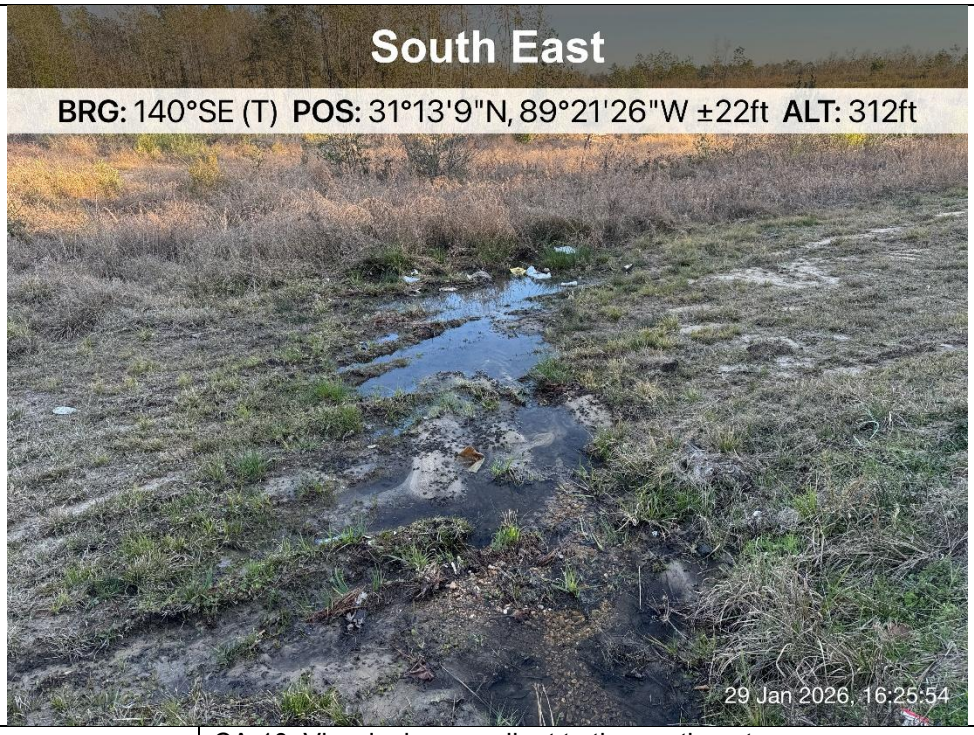
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Site 3


R.D. Hartfield Rd
Tatum Camp Rd
11
W-9
CA-17
CA-16
CA-14
W-8
CA-13
CA-12
CA-14
Site 3
CA-15
DP08
DP10
DP09
DP07
CA-14
W-4
W-7a
CA-11
W-7b
CA-10
W-6a
W-6b
W-5
CA-9
W-3
DP05
DP06
Sites
Study Area
Emergent Wetland (PEM)
Forrested Wetland (PFO)
Channel Assestment (CA)
Data Point (DP)
Observation Point (OB)
Start
Lat: 31.2036262°
Long: -89.3663235°
End
Lat: 31.2522431°
Long: -89.3412051°
GARVER
GarverUSA.com
N
0
400
800 Feet
Proposed US 11 Widening
Lamar and Forrest County, Mississippi
2025 ESRI Aerial Imagery
Path: L:\2025\11\14-2500972 - MDOT Highway 11 EA\GIS\Maps\Env\Wetlands\US11_WetlandFigures_MYW.aprx


R.D. Hartfield Rd
Tatum Camp Rd
11
W-9
CA-17
CA-16
CA-14
W-8
CA-13
CA-12
CA-14
Site 3
CA-15
DP08
DP10
DP09
DP07
CA-14
W-4
W-7a
CA-11
W-7b
CA-10
W-6a
W-6b
W-5
CA-9
W-3
DP05
DP06
Sites
Study Area
Emergent Wetland (PEM)
Forrested Wetland (PFO)
Channel Assestment (CA)
Data Point (DP)
Observation Point (OB)
Start
Lat: 31.2036262°
Long: -89.3663235°
End
Lat: 31.2522431°
Long: -89.3412051°
GARVER
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800 Feet
Proposed US 11 Widening
Lamar and Forrest County, Mississippi
2025 ESRI Aerial Imagery
Path: L:\2025\11\14-2500972 - MDOT Highway 11 EA\GIS\Maps\Env\Wetlands\US11_WetlandFigures_MYW.aprx

W-5	
Forested Wetland	
	
Description	W-5 and CA-10. View is to the east.
OB Soil Check	
Hydric Soil	
	
Description	Hydric soil at an observation point within W-5.

CA-10	
Intermittent Stream	
	
Description	CA-10. View is upgradient to the southwest. This reach of CA-10 was observed to be flowing during the site visit.
CA-10	
Intermittent Stream	
	
Description	CA-10. View is downgradient to the southeast.

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

Project: US 11 Improvements	**City/County/State:** Lamar County, Mississippi	
Investigator(s): Wilson Harper	**Lat:** 31.219229 **Long:** -89.357530	**Sample Location ID:** CA-10
Applicant/Owner: Mississippi Department of Transportation	**Date:** 1/29/2026	
Reason for Survey: Wetland Delineation		
River Basin/HUC Number: 03170007 **Size of Watershed:** 811,067 acres **Size of Drainage Area:** 1.5 acres	**Tributary Name (if known):** N/A **Nearest TNW:** Pascagoula River	

TRIBUTARY CHARACTERIZATION	**Tributary subsystem:** ☐ Ephemeral ☑ Intermittent ☐ Perennial **Tributary flows directly into a TNW?** **Explain:** No **Distance to nearest TNW:** River Miles: 74.9 Aerial Miles: 57.6 **Describe flow route to TNW:** Unnamed tributary into unnamed tributary, thence unnamed tributary, thence into Black Tom Creek, thence into Black Creek, thence into Big Black Creek, thence into Pascagoula River. **Tributary is** (natural / artificial / manipulated): **Explain:** Manipulated. Culvert under US 11.
WEATHER CONDITIONS	**Current:** ☐ rain (steady rain) ☐ showers (intermittent) ☐ cloud cover_____ (%) ☑ clear/ sunny air temperature: 56 (°F) **Has there been heavy rain in the last 7 days?** No **Average Rainfall:** 0.03 (in.) **Comment:**
WATERSHED FEATURES	**Predominant surrounding landuse:** ☑ Forest ☐ Commercial ☑ Other (Explain): Transportation ☑ Field/Pasture ☐ Industrial ☐ Agricultural ☐ Residential

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

TRIBUTARY FEATURES	**Estimated reach length**: 237 (ft.) **Estimated channel width**: 1 (ft.) **Estimated channel depth**: 0.5 (ft.) **Channelized:** No **Dam present:** No **Estimated slope of banks**: vertical ☐ 2:1 ☑ 3:1 ☐ 4:1 ☐ greater ☐ **Substrate:** sand ☑ cobble ☐ silt ☑ gravel ☐
TRIBUTARY CONDITION	**Tributary has** (defined bed and banks / OHWM): **Explain:** OHWM **Bank stability** (highly eroded, sloughing banks, etc): **Explain:** Relatively stable **Riffle / Run / Pool complex:** Yes **Explain:** All observed
FLOW CONDITIONS	**Tributary geometry** (relatively straight, meandering, other): **Explain:** Relatively straight. **Current flow is** (discrete, confined, overland sheet flow, etc): **Explain:** Confined. Springs and disappearing channels were observed. **Average flow events per year:** Unknow
VEGETATION	**Approximate width of riparian buffer:** 0 - 200 (ft.) **Dominant species present** (top bank / buffer): *Pinus taeda, Magnolia virginiana, Ilex vomitoria* **Aquatic vegetation present:** No **Comment:** Not observed.

CA-11	
Intermittent Stream	
	
Description	CA-11. View is upgradient to the north-northeast.
CA-11	
Intermittent Stream	
	
Description	CA-11. View is downgradient to the east-southeast.

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

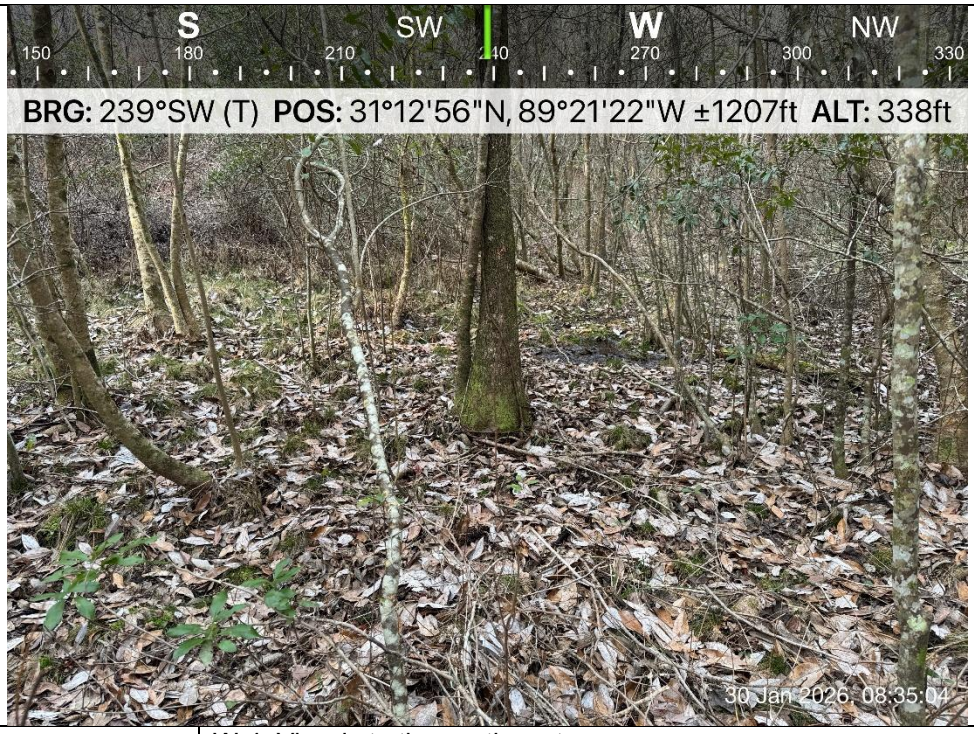
Project: US 11 Improvements	**City/County/State:** Lamar County, Mississippi	
Investigator(s): Wilson Harper	**Lat:** 31.219715 **Long:** -89.357260	**Sample Location ID:** CA-11
Applicant/Owner: Mississippi Department of Transportation	**Date:** 1/30/2026	
Reason for Survey: Wetland Delineation		
River Basin/HUC Number: 03170007 **Size of Watershed:** 811,067 acres **Size of Drainage Area:** 4.5 acres	**Tributary Name (if known):** N/A **Nearest TNW:** Pascagoula River	

TRIBUTARY CHARACTERIZATION	**Tributary subsystem:** ☐ Ephemeral ☑ Intermittent ☐ Perennial **Tributary flows directly into a TNW?** **Explain:** No **Distance to nearest TNW:** River Miles: 74.9 Aerial Miles: 57.6 **Describe flow route to TNW:** Unnamed tributary into unnamed tributary, thence unnamed tributary, thence into Black Tom Creek, thence into Black Creek, thence into Big Black Creek, thence into Pascagoula River. **Tributary is** (natural / artificial / manipulated): **Explain:** Manipulated. Culvert under US 11.
WEATHER CONDITIONS	**Current:** ☐ rain (steady rain) ☐ showers (intermittent) ☑ cloud cover 90 (%) ☐ clear/ sunny air temperature: 48 (ºF) **Has there been heavy rain in the last 7 days?** No **Average Rainfall:** 0.02 (in.) **Comment:**
WATERSHED FEATURES	**Predominant surrounding landuse:** ☑ Forest ☐ Commercial ☑ Other (Explain): Transportation ☑ Field/Pasture ☐ Industrial ☐ Agricultural ☐ Residential

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

TRIBUTARY FEATURES	**Estimated reach length**: 251 (ft.) **Estimated channel width**: 1.5 (ft.) **Estimated channel depth**: 0.5 (ft.) **Channelized:** Yes **Dam present:** No **Estimated slope of banks**: vertical ☐ 2:1 ☐ 3:1 ☐ 4:1 ☐ greater ☑ **Substrate:** sand ☑ cobble ☐ silt ☑ gravel ☑
TRIBUTARY CONDITION	**Tributary has** (defined bed and banks / OHWM): **Explain:** OHWM **Bank stability** (highly eroded, sloughing banks, etc): **Explain:** Relatively stable **Riffle / Run / Pool complex:** No **Explain:** Not observed
FLOW CONDITIONS	**Tributary geometry** (relatively straight, meandering, other): **Explain:** relatively straight **Current flow is** (discrete, confined, overland sheet flow, etc): **Explain:** Confined. Channel begins with spring adjacent to US 11, likely fed by Wetland 6. Channel disappears underground at the start of Wetland 5 **Average flow events per year:** Unknow
VEGETATION	**Approximate width of riparian buffer:** 0 - 20 (ft.) **Dominant species present** (top bank / buffer): *Pinus palustris, Magnolia virginiana, Ilex vomitoria* **Aquatic vegetation present:** Yes **Comment:** Mayaca fluviatilis

W-4	
Forested Wetland	
	
Description	W-4. View is to the southwest.
DP 7	
Hydric Soil	
	
Description	Hydric soil at DP 7 within W-4.

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: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: US 11 Improvements City/County: Lamar County Sampling Date: 1/29/2026
Applicant/Owner: MDOT State: MS Sampling Point: DP 07
Investigator(s): Wilson Harper Section, Township, Range: S 13, T 3 N, R 14 W
Landform (hillside, terrace, etc.): Floodplain/Depression Local relief (concave, convex, none): Concave Slope (%): 2
Subregion (LRR or MLRA): LRR P, MLRA 133C Lat: 31.220788 Long: -89.357576 Datum: WGS 84
Soil Map Unit Name: McLaurin-Lucy Association, rolling 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 X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?** **Yes** X **No** ____
Hydric Soil Present?	Yes X	No ____	
Wetland Hydrology Present?	Yes X	No ____	

Remarks:
Site is drier than normal according to the USACE Antecedent Precipitation Tool. Site meets all three criteria and is located within a wetland.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- X Surface Water (A1)
- X High Water Table (A2)
- X Saturation (A3)
- X Water Marks (B1)
- ___ Sediment Deposits (B2)
- X Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- X Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15) **(LRR U)**
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- X Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- X Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- X FAC-Neutral Test (D5)
- ___ Sphagnum Moss (D8) **(LRR T, U)**

Field Observations:

Surface Water Present?	Yes X	No ____	Depth (inches): 5
Water Table Present?	Yes X	No ____	Depth (inches): 8
Saturation Present? (includes capillary fringe)	Yes X	No ____	Depth (inches): 0

Wetland Hydrology Present? **Yes** X **No** ____

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

Remarks:
Site meets wetland hydrology criteria.

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VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP 07

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. *Magnolia virginiana*	50	Yes	FACW
2. *Liriodendron tulipifera*	10	No	FACU
3.			
4.			
5.			
6.			
7.			
8.			
	60	=Total Cover	
50% of total cover: 30	20% of total cover:		12
Sapling/Shrub Stratum (Plot size: 30')			
1. *Morella cerifera*	25	Yes	FAC
2. *Ilex glabra*	10	Yes	FACW
3. *Ilex vomitoria*	10	Yes	FAC
4.			
5.			
6.			
7.			
8.			
	45	=Total Cover	
50% of total cover: 23	20% of total cover:		9
Herb Stratum (Plot size: 30')			
1. *Rhynchospora glomerata*	25	Yes	OBL
2. *Chasmanthium sessiliflorum*	15	Yes	FAC
3. *Sphagnum sp.*	10	No	
4. *Panicum virgatum*	10	No	FAC
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	60	=Total Cover	
50% of total cover: 30	20% of total cover:		12
Woody Vine Stratum (Plot size: 30')			
1. *Smilax laurifolia*	10	Yes	FACW
2.			
3.			
4.			
5.			
	10	=Total Cover	
50% of total cover: 5	20% of total cover:		2

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 7 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

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]

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody Vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (If observed, list morphological adaptations below.)
Site meets hydrophytic vegetation criteria. Buttressing observed on mature trees.

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SOIL Sampling Point: DP 07

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-15	2.5Y 2.5/1	95	2.5Y 6/2	5	D	M	Mucky Loam/Clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Organic Bodies (A6) **(LRR P, T, U)**
- X 5 cm Mucky Mineral (A7) **(LRR P, T, U)**
- ___ Muck Presence (A8) **(LRR U)**
- X 1 cm Muck (A9) **(LRR P, T)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Coast Prairie Redox (A16) **(MLRA 150A)**
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1) **(LRR O, S)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR P, S, T, U)**
- ___ Polyvalue Below Surface (S8) **(LRR S, T, U)**
- ___ Thin Dark Surface (S9) **(LRR S, T, U)**
- ___ Barrier Islands 1 cm Muck (S12) **(MLRA 153B, 153D)**
- ___ Loamy Mucky Mineral (F1) **(LRR O)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) **(LRR U)**
- ___ Depleted Ochric (F11) **(MLRA 151)**
- ___ Iron-Manganese Masses (F12) **(LRR O, P, T)**
- X Umbric Surface (F13) **(LRR P, T, U)**
- ___ Delta Ochric (F17) **(MLRA 151)**
- ___ Reduced Vertic (F18) **(MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149A)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 149A, 153C, 153D)**
- ___ Very Shallow Dark Surface (F22) **(MLRA 138, 152A in FL, 154)**

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) **(LRR O)**
- ___ 2 cm Muck (A10) **(LRR S)**
- ___ Coast Prairie Redox (A16) **(MLRA 149A)**
- ___ Reduced Vertic (F18) **(outside MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(LRR P, T)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 153B)**
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22) **(outside MLRA 138, 152A in FL, 154)**
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks:

Site meets hydric soil criteria. Soil matrix was extremely dark black which makes depletions difficult to see. Stratified layers of undecomposed vegetation present. Mucky surface.

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W-6	
Forested Wetland	
	
Description	W-6. View is to the northeast.
OB Soil Check	
Hydric Soil	
	
Description	Hydric soil from an observation point in W-6.

W-7a	
Emergent Wetland	
	
Description	W-7a. View is to the north on the east side of US 11.
DP 10	
Hydric Soil	
	
Description	Hydric soil at DP 10 within W-7a.

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: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: US 11 Improvements City/County: Lamar County Sampling Date: 2/10/2026
Applicant/Owner: MDOT State: MS Sampling Point: DP 10
Investigator(s): Wilson Harper Section, Township, Range: S 13, T 3 N, R 14 W
Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 2
Subregion (LRR or MLRA): LRR P, MLRA 133C Lat: 31.221285 Long: -89.355894 Datum: WGS 84
Soil Map Unit Name: McLaurin-Lucy Association, rolling 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 X , Soil ____ , or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____ , Soil ____ , or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?** **Yes** X **No** ____
Hydric Soil Present?	Yes X	No ____	
Wetland Hydrology Present?	Yes X	No ____	

Remarks:
Site is drier than normal according to the USACE Antecedent Precipitation Tool. Vegetation cleared/maintained for industrial development. Site meets all three criteria and is located within a wetland.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- X Surface Water (A1)
- X High Water Table (A2)
- X Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- X Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- X Inundation Visible on Aerial Imagery (B7)
- X Water-Stained Leaves (B9)
- X Aquatic Fauna (B13)
- ___ Marl Deposits (B15) **(LRR U)**
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- X Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- X Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- X Crayfish Burrows (C8)
- X Saturation Visible on Aerial Imagery (C9)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- X FAC-Neutral Test (D5)
- ___ Sphagnum Moss (D8) **(LRR T, U)**

Field Observations:

Surface Water Present?	Yes X	No ____	Depth (inches): 0.5
Water Table Present?	Yes X	No ____	Depth (inches): 0
Saturation Present? (includes capillary fringe)	Yes X	No ____	Depth (inches): 0

Wetland Hydrology Present? **Yes** X **No** ____

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

Remarks:
Site meets wetland hydrology criteria.

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VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP 10

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. *Magnolia virginiana*	5	Yes	FACW
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	5 =Total Cover		
50% of total cover: 3	20% of total cover: 1		
Sapling/Shrub Stratum (Plot size: 30')			
1. *Magnolia virginiana*	10	Yes	FACW
2. *Acer rubrum*	10	Yes	FAC
3. *Morella cerifera*	5	Yes	FAC
4.			
5.			
6.			
7.			
8.			
	25 =Total Cover		
50% of total cover: 13	20% of total cover: 5		
Herb Stratum (Plot size: 30')			
1. *Juncus effusus*	10	Yes	OBL
2. *Rhexia mariana*	10	Yes	FACW
3. *Scirpus cyperinus*	10	Yes	OBL
4. *Dichanthelium scoparium*	10	Yes	FACW
5. *Rubus trivialis*	10	Yes	FACU
6. *Carex lurida*	10	Yes	OBL
7. *Cyperus strigosus*	10	Yes	FACW
8.			
9.			
10.			
11.			
12.			
	70 =Total Cover		
50% of total cover: 35	20% of total cover: 14		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
5.			
	=Total Cover		
50% of total cover:	20% of total cover:		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 10 (A)

Total Number of Dominant Species Across All Strata: 11 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 90.9% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)
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]

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody Vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (If observed, list morphological adaptations below.)
Site meets hydrophytic vegetation criteria.

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SOIL Sampling Point: DP 10

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	7.5YR 2.5/1	97	7.5YR 4/6	3	C	M	Sandy	Prominent redox concentrations; Mucky

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Organic Bodies (A6) **(LRR P, T, U)**
- ___ 5 cm Mucky Mineral (A7) **(LRR P, T, U)**
- ___ Muck Presence (A8) **(LRR U)**
- X 1 cm Muck (A9) **(LRR P, T)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Coast Prairie Redox (A16) **(MLRA 150A)**
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1) **(LRR O, S)**
- ___ Sandy Gleyed Matrix (S4)
- X Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR P, S, T, U)**
- ___ Polyvalue Below Surface (S8) **(LRR S, T, U)**
- ___ Thin Dark Surface (S9) **(LRR S, T, U)**
- ___ Barrier Islands 1 cm Muck (S12) **(MLRA 153B, 153D)**
- ___ Loamy Mucky Mineral (F1) **(LRR O)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) **(LRR U)**
- ___ Depleted Ochric (F11) **(MLRA 151)**
- ___ Iron-Manganese Masses (F12) **(LRR O, P, T)**
- ___ Umbric Surface (F13) **(LRR P, T, U)**
- ___ Delta Ochric (F17) **(MLRA 151)**
- ___ Reduced Vertic (F18) **(MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149A)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 149A, 153C, 153D)**
- ___ Very Shallow Dark Surface (F22) **(MLRA 138, 152A in FL, 154)**

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) **(LRR O)**
- ___ 2 cm Muck (A10) **(LRR S)**
- ___ Coast Prairie Redox (A16) **(MLRA 149A)**
- ___ Reduced Vertic (F18) **(outside MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(LRR P, T)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 153B)**
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22) **(outside MLRA 138, 152A in FL, 154)**
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks:

Site meets hydric soil criteria. Mucky surface. Stratified layers of undecomposed vegetation.

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W-7b	
Forested Wetland	
	
Description	W-7b. View is to the southeast
OB Soil Check	
Hydric Soil	
	
Description	Hydric soil from an observation point in W-7b.

CA-14	
Perennial Stream	
	
Description	CA-14. View is upgradient to the northwest.
CA-14	
Perennial Stream	
	
Description	CA-14. View is downgradient to the southeast.

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

Project: US 11 Improvements	**City/County/State:** Lamar County, Mississippi	
Investigator(s): Wilson Harper	**Lat:** 31.221299 **Long:** -89.355957	**Sample Location ID:** CA-14
Applicant/Owner: Mississippi Department of Transportation	**Date:** 1/30/2026	
Reason for Survey: Wetland Delineation		
River Basin/HUC Number: 03170007 **Size of Watershed:** 811,067 acres **Size of Drainage Area:** 55 acres	**Tributary Name (if known):** N/A **Nearest TNW:** Pascagoula River	

TRIBUTARY CHARACTERIZATION	**Tributary subsystem:** ☐ Ephemeral ☐ Intermittent ☑ Perennial **Tributary flows directly into a TNW?** **Explain:** No **Distance to nearest TNW:** River Miles: 75.1 Aerial Miles: 57.7 **Describe flow route to TNW:** Unnamed tributary into unnamed tributary, thence into Black Tom Creek, thence into Black Creek, thence into Big Black Creek, thence into Pascagoula River. **Tributary is** (natural / artificial / manipulated): **Explain:** Manipulated. Culvert under US 11 and vegetation disturbance.
WEATHER CONDITIONS	**Current:** ☐ rain (steady rain) ☐ showers (intermittent) ☑ cloud cover 90 (%) ☐ clear/ sunny air temperature: 53 (°F) **Has there been heavy rain in the last 7 days?** No **Average Rainfall:** 0.02 (in.) **Comment:**
WATERSHED FEATURES	**Predominant surrounding landuse:** ☑ Forest ☐ Commercial ☑ Other (Explain): Transportation ☑ Field/Pasture ☐ Industrial ☐ Agricultural ☐ Residential

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

TRIBUTARY FEATURES	**Estimated reach length**: 1,299 (ft.) **Estimated channel width**: 2 (ft.) **Estimated channel depth**: 1 (ft.) **Channelized:** No **Dam present:** No **Estimated slope of banks**: vertical ☑ 2:1 ☐ 3:1 ☐ 4:1 ☐ greater ☐ **Substrate:** sand ☑ cobble ☐ silt ☑ gravel ☑
TRIBUTARY CONDITION	**Tributary has** (defined bed and banks / OHWM): **Explain:** OHWM. Nearly has developed defined bed and banks **Bank stability** (highly eroded, sloughing banks, etc): **Explain:** Relatively stable **Riffle / Run / Pool complex:** Yes **Explain:** All observed
FLOW CONDITIONS	**Tributary geometry** (relatively straight, meandering, other): **Explain:** Relatively straight **Current flow is** (discrete, confined, overland sheet flow, etc): **Explain:** Confined **Average flow events per year:** 365
VEGETATION	**Approximate width of riparian buffer:** 20 (ft.) **Dominant species present** (top bank / buffer): *Magnolia virginiana, Pinus palustris, Rubus trivialis, Solidago altissima, Dichanthelium scoparium* **Aquatic vegetation present:** Yes **Comment:** Mayaca fluviatilis. Fish, crayfish, and amphibians also observed.

CA-15	
Ephemeral Stream	
	
Description	CA-15. View is upgradient to the north. CA-15 was not flowing during the site visit but was filled with standing water.
CA-15	
Ephemeral Stream	
	
Description	CA-15. View is downgradient to the south. CA-15 was not flowing during the site visit but was filled with standing water.

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

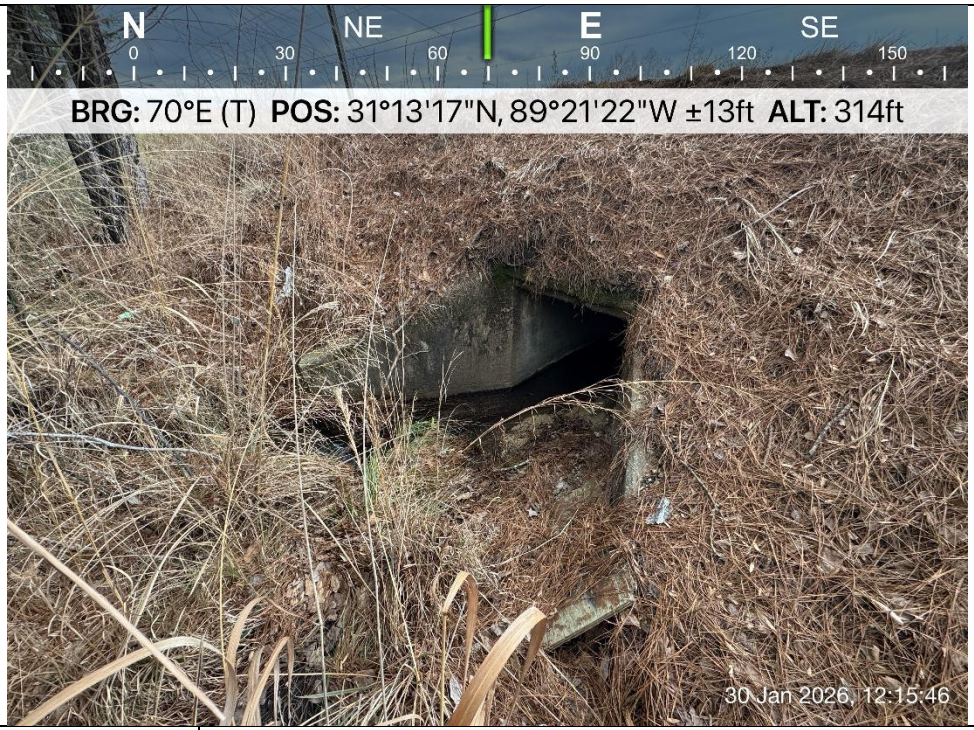
Project: US 11 Improvements	**City/County/State:** Lamar County, Mississippi	
Investigator(s): Wilson Harper	**Lat:** 31.221768 **Long:** -89.355965	**Sample Location ID:** CA-15
Applicant/Owner: Mississippi Department of Transportation	**Date:** 1/30/2026	
Reason for Survey: Wetland Delineation		
River Basin/HUC Number: 03170007 **Size of Watershed:** 811,067 acres **Size of Drainage Area:** 0.5 acres	**Tributary Name (if known):** N/A **Nearest TNW:** Pascagoula River	

TRIBUTARY CHARACTERIZATION	**Tributary subsystem:** ☑ Ephemeral ☐ Intermittent ☐ Perennial **Tributary flows directly into a TNW?** **Explain:** No **Distance to nearest TNW:** River Miles: 75.2 Aerial Miles: 57.7 **Describe flow route to TNW:** Unnamed tributary into unnamed tributary (CA14), thence into unnamed tributary, thence into Black Tom Creek, thence into Black Creek, thence into Big Black Creek, thence into Pascagoula River. **Tributary is** (natural / artificial / manipulated): **Explain:** Manipulated due to vegetation disturbance.
WEATHER CONDITIONS	**Current:** ☐ rain (steady rain) ☐ showers (intermittent) ☑ cloud cover 90 (%) ☐ clear/ sunny air temperature: 55 (°F) **Has there been heavy rain in the last 7 days?** No **Average Rainfall:** 0.02 (in.) **Comment:**
WATERSHED FEATURES	**Predominant surrounding landuse:** ☐ Forest ☐ Commercial ☑ Other (Explain): Transportation ☑ Field/Pasture ☐ Industrial ☐ Agricultural ☐ Residential

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

TRIBUTARY FEATURES	**Estimated reach length**: 232 (ft.) **Estimated channel width**: 0.5 (ft.) **Estimated channel depth**: 0.25 (ft.) **Channelized:** No **Dam present:** No **Estimated slope of banks**: vertical ☐ 2:1 ☑ 3:1 ☐ 4:1 ☐ greater ☐ **Substrate:** sand ☑ cobble ☐ silt ☑ gravel ☐
TRIBUTARY CONDITION	**Tributary has** (defined bed and banks / OHWM): **Explain:** OHWM **Bank stability** (highly eroded, sloughing banks, etc): **Explain:** Relatively stable **Riffle / Run / Pool complex:** No **Explain:** Not observed
FLOW CONDITIONS	**Tributary geometry** (relatively straight, meandering, other): **Explain:** Relatively straight **Current flow is** (discrete, confined, overland sheet flow, etc): **Explain:** None **Average flow events per year:** Unknow
VEGETATION	**Approximate width of riparian buffer:** 10 (ft.) **Dominant species present** (top bank / buffer): *Cynodon dactylon, Juncus effusus, Rubus trivialis, Solidago altissima, Dichanthelium scoparium, maintained grassess* **Aquatic vegetation present:** No **Comment:**

CA-12	
Intermittent Stream	
	
Description	CA-12. View is upgradient to the north-northwest.
CA-12	
Intermittent Stream	
	
Description	CA-12 where it enters a culvert under US 11. View is downgradient to the east-northeast.

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

Project: US 11 Improvements	**City/County/State:** Lamar County, Mississippi	
Investigator(s): Wilson Harper	**Lat:** 31.221605 **Long:** -89.356477	**Sample Location ID:** CA-12
Applicant/Owner: Mississippi Department of Transportation	**Date:** 1/30/2026	
Reason for Survey: Wetland Delineation		
River Basin/HUC Number: 03170007 **Size of Watershed:** 811,067 acres **Size of Drainage Area:** 10.7 acres	**Tributary Name (if known):** N/A **Nearest TNW:** Pascagoula River	

TRIBUTARY CHARACTERIZATION	**Tributary subsystem:** ☐ Ephemeral ☑ Intermittent ☐ Perennial **Tributary flows directly into a TNW?** **Explain:** No **Distance to nearest TNW:** River Miles: 75 Aerial Miles: 57.6 **Describe flow route to TNW:** Unnamed tributary into unnamed tributary (CA-14), thence into unnamed tributary, thence into Black Tom Creek, thence into Black Creek, thence into Big Black Creek, thence into Pascagoula River. **Tributary is** (natural / artificial / manipulated): **Explain:** Manipulated. Culvert under US 11.
WEATHER CONDITIONS	**Current:** ☐ rain (steady rain) ☐ showers (intermittent) ☑ cloud cover 90 (%) ☐ clear/ sunny air temperature: 48 (°F) **Has there been heavy rain in the last 7 days?** No **Average Rainfall:** 0.02 (in.) **Comment:**
WATERSHED FEATURES	**Predominant surrounding landuse:** ☑ Forest ☐ Commercial ☑ Other (Explain): Transportation ☐ Field/Pasture ☐ Industrial ☐ Agricultural ☐ Residential

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

TRIBUTARY FEATURES	**Estimated reach length**: 202 (ft.) **Estimated channel width**: 1.5 (ft.) **Estimated channel depth**: 0.5 (ft.) **Channelized:** No **Dam present:** No **Estimated slope of banks**: vertical ☐ 2:1 ☐ 3:1 ☑ 4:1 ☐ greater ☐ **Substrate:** sand ☑ cobble ☐ silt ☑ gravel ☐
TRIBUTARY CONDITION	**Tributary has** (defined bed and banks / OHWM): **Explain:** OHWM **Bank stability** (highly eroded, sloughing banks, etc): **Explain:** Relatively stable **Riffle / Run / Pool complex:** No **Explain:** Not observed
FLOW CONDITIONS	**Tributary geometry** (relatively straight, meandering, other): **Explain:** relatively straight **Current flow is** (discrete, confined, overland sheet flow, etc): **Explain:** Confined. **Average flow events per year:** Unknow
VEGETATION	**Approximate width of riparian buffer:** 50 (ft.) **Dominant species present** (top bank / buffer): *Pinus palustris, Magnolia virginiana, Ilex vomitoria, Dichanthelium scoparium, Rhynchospora inexpansa* **Aquatic vegetation present:** No **Comment:**

CA-13	
Ephemeral Stream	
NO PHOTO TAKEN	
Description	

CA-13	
Ephemeral Stream	
NO PHOTO TAKEN	
Description	

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

Project: US 11 Improvements	**City/County/State:** Lamar County, Mississippi	
Investigator(s): Wilson Harper	**Lat:** 31.222184 **Long:** -89.356017	**Sample Location ID:** CA-13
Applicant/Owner: Mississippi Department of Transportation	**Date:** 1/30/2026	
Reason for Survey: Wetland Delineation		
River Basin/HUC Number: 03170007 **Size of Watershed:** 811,067 acres **Size of Drainage Area:** 1.5 acres	**Tributary Name (if known):** N/A **Nearest TNW:** Pascagoula River	

TRIBUTARY CHARACTERIZATION	**Tributary subsystem:** ☑ Ephemeral ☐ Intermittent ☐ Perennial **Tributary flows directly into a TNW?** **Explain:** No **Distance to nearest TNW:** River Miles: 75.1 Aerial Miles: 57.7 **Describe flow route to TNW:** Unnamed tributary into unnamed tributary (CA-12), thence into unnamed tributary (CA-14), thence into unnamed tributary, thence into Black Tom Creek, thence into Black Creek, thence into Big **Tributary is** (natural / artificial / manipulated): **Explain:** Manipulated. Roadside ditch that is spring-fed.
WEATHER CONDITIONS	**Current:** ☐ rain (steady rain) ☐ showers (intermittent) ☑ cloud cover 90 (%) ☐ clear/ sunny air temperature: 53 (°F) **Has there been heavy rain in the last 7 days?** No **Average Rainfall:** 0.02 (in.) **Comment:**
WATERSHED FEATURES	**Predominant surrounding landuse:** ☑ Forest ☐ Commercial ☑ Other (Explain): Transportation ☐ Field/Pasture ☐ Industrial ☐ Agricultural ☐ Residential

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

TRIBUTARY FEATURES	**Estimated reach length**: 250 (ft.) **Estimated channel width**: 0.5 (ft.) **Estimated channel depth**: 0.25 (ft.) **Channelized:** Yes **Dam present:** No **Estimated slope of banks**: vertical ☐ 2:1 ☑ 3:1 ☐ 4:1 ☐ greater ☐ **Substrate:** sand ☐ cobble ☐ silt ☑ gravel ☐
TRIBUTARY CONDITION	**Tributary has** (defined bed and banks / OHWM): **Explain:** Flowline **Bank stability** (highly eroded, sloughing banks, etc): **Explain:** Relatively stable, minimal bank **Riffle / Run / Pool complex:** No **Explain:** Not observed
FLOW CONDITIONS	**Tributary geometry** (relatively straight, meandering, other): **Explain:** relatively straight **Current flow is** (discrete, confined, overland sheet flow, etc): **Explain:** Confined. **Average flow events per year:** Unknow
VEGETATION	**Approximate width of riparian buffer:** 10 (ft.) **Dominant species present** (top bank / buffer): *Pinus palustris, Dichanthelium scoparium* **Aquatic vegetation present:** Yes **Comment:**

W-8	
Forested Wetland	
	
Description	W-8. View is to the west
OB Soil Check	
Hydric Soil	
	
Description	Hydric soil from an observation point in W-8.

W-9	
Forested Wetland	
	
Description	W-9. View is to the south
OB Soil Check	
Hydric Soil	
	
Description	Hydric soil from an observation point in W-9.

CA-16	
Ephemeral Stream	
	
Description	CA-16. View is upgradient to the north.
CA-16	
Ephemeral Stream	
	
Description	CA-16. View is downgradient to the south.

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

Project: US 11 Improvements	**City/County/State:** Lamar County, Mississippi	
Investigator(s): Wilson Harper	**Lat:** 31.222841 **Long:** -89.355468	**Sample Location ID:** CA-16
Applicant/Owner: Mississippi Department of Transportation	**Date:** 1/30/2026	
Reason for Survey: Wetland Delineation		
River Basin/HUC Number: 03170007 **Size of Watershed:** 811,067 acres **Size of Drainage Area:** 0.75 acres	**Tributary Name (if known):** N/A **Nearest TNW:** Pascagoula River	

TRIBUTARY CHARACTERIZATION	**Tributary subsystem:** ☑ Ephemeral ☐ Intermittent ☐ Perennial **Tributary flows directly into a TNW?** **Explain:** No **Distance to nearest TNW:** River Miles: 75.3 Aerial Miles: 57.8 **Describe flow route to TNW:** Unnamed tributary into unnamed tributary (CA14), thence into unnamed tributary, thence into Black Tom Creek, thence into Black Creek, thence into Big Black Creek, thence into Pascagoula River. **Tributary is** (natural / artificial / manipulated): **Explain:** Manipulated due to vegetation disturbance.
WEATHER CONDITIONS	**Current:** ☐ rain (steady rain) ☐ showers (intermittent) ☑ cloud cover 90 (%) ☐ clear/ sunny air temperature: 55 (°F) **Has there been heavy rain in the last 7 days?** No **Average Rainfall:** 0.02 (in.) **Comment:**
WATERSHED FEATURES	**Predominant surrounding landuse:** ☐ Forest ☐ Commercial ☑ Other (Explain): Transportation ☑ Field/Pasture ☐ Industrial ☐ Agricultural ☐ Residential

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

TRIBUTARY FEATURES	**Estimated reach length**: 95 (ft.) **Estimated channel width**: 0.5 (ft.) **Estimated channel depth**: 0.25 (ft.) **Channelized:** No **Dam present:** No **Estimated slope of banks**: vertical ☐ 2:1 ☐ 3:1 ☐ 4:1 ☑ greater ☐ **Substrate:** sand ☑ cobble ☐ silt ☑ gravel ☐
TRIBUTARY CONDITION	**Tributary has** (defined bed and banks / OHWM): **Explain:** OHWM **Bank stability** (highly eroded, sloughing banks, etc): **Explain:** Eroded **Riffle / Run / Pool complex:** No **Explain:** Not observed
FLOW CONDITIONS	**Tributary geometry** (relatively straight, meandering, other): **Explain:** Relatively straight **Current flow is** (discrete, confined, overland sheet flow, etc): **Explain:** None **Average flow events per year:** Unknow
VEGETATION	**Approximate width of riparian buffer:** 10 (ft.) **Dominant species present** (top bank / buffer): *Ilex vomitoria, Cynodon dactylon, Rubus trivialis, Solidago altissima, Dichanthelium scoparium, Andropogon ternarius maintained grassess* **Aquatic vegetation present:** No **Comment:**

CA-17	
Ephemeral Stream	
	
Description	CA-17. View is upgradient to the north-northeast.
CA-17	
Ephemeral Stream	
	
Description	CA-17. View is downgradient to the south-southwest.

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

Project: US 11 Improvements	**City/County/State:** Lamar County, Mississippi	
Investigator(s): Wilson Harper	**Lat:** 31.223155 **Long:** -89.355518	**Sample Location ID:** CA-17
Applicant/Owner: Mississippi Department of Transportation	**Date:** 1/30/2026	
Reason for Survey: Wetland Delineation		
River Basin/HUC Number: 03170007 **Size of Watershed:** 811,067 acres **Size of Drainage Area:** 0.15 acres	**Tributary Name (if known):** N/A **Nearest TNW:** Pascagoula River	

TRIBUTARY CHARACTERIZATION	**Tributary subsystem:** ☑ Ephemeral ☐ Intermittent ☐ Perennial **Tributary flows directly into a TNW?** **Explain:** No **Distance to nearest TNW:** River Miles: 75.3 Aerial Miles: 57.8 **Describe flow route to TNW:** Unnamed tributary into Wetland 9, thence into unnamed tributary (CA14), thence into unnamed tributary, thence into Black Tom Creek, thence into Black Creek, thence into Big Black Creek, thence into **Tributary is** (natural / artificial / manipulated): **Explain:** Manipulated; roadside
WEATHER CONDITIONS	**Current:** ☐ rain (steady rain) ☐ showers (intermittent) ☑ cloud cover 90 (%) ☐ clear/ sunny air temperature: 55 (°F) **Has there been heavy rain in the last 7 days?** No **Average Rainfall:** 0.02 (in.) **Comment:**
WATERSHED FEATURES	**Predominant surrounding landuse:** ☑ Forest ☐ Commercial ☑ Other (Explain): Transportation ☐ Field/Pasture ☐ Industrial ☐ Agricultural ☐ Residential

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

TRIBUTARY FEATURES	**Estimated reach length**: 144 (ft.) **Estimated channel width**: 0.5 (ft.) **Estimated channel depth**: 0.25 (ft.) **Channelized:** Yes **Dam present:** No **Estimated slope of banks**: vertical ☑ 2:1 ☐ 3:1 ☐ 4:1 ☐ greater ☐ **Substrate:** sand ☑ cobble ☐ silt ☑ gravel ☐
TRIBUTARY CONDITION	**Tributary has** (defined bed and banks / OHWM): **Explain:** OHWM **Bank stability** (highly eroded, sloughing banks, etc): **Explain:** Eroded **Riffle / Run / Pool complex:** No **Explain:** Not observed
FLOW CONDITIONS	**Tributary geometry** (relatively straight, meandering, other): **Explain:** Relatively straight **Current flow is** (discrete, confined, overland sheet flow, etc): **Explain:** None **Average flow events per year:** Unknow
VEGETATION	**Approximate width of riparian buffer:** 10 (ft.) **Dominant species present** (top bank / buffer): *Pinus palustris, Ilex vomitoria, Cynodon dactylon* **Aquatic vegetation present:** No **Comment:**

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: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: US 11 Improvements City/County: Lamar County Sampling Date: 1/29/2026
Applicant/Owner: MDOT State: MS Sampling Point: DP 08
Investigator(s): Wilson Harper Section, Township, Range: S 13, T 3 N, R 14 W
Landform (hillside, terrace, etc.): Hillside Local relief (concave, convex, none): Convex Slope (%): 6
Subregion (LRR or MLRA): LRR P, MLRA 133C Lat: 31.220846 Long: -89.357501 Datum: WGS 84
Soil Map Unit Name: McLaurin-Lucy Association, rolling 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 X, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes ____	No X	

Remarks:
Site is drier than normal according to the USACE Antecedent Precipitation Tool. Vegetation disurbed by planting and management of longleaf pine plantation. Site does not meet all three criteria and is not located within a wetland.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)
- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15) **(LRR U)**
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary 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): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? Yes ____ No X

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

Remarks:
Site does not meet wetland hydrology criteria.

ENG FORM 6116-2, SEP 2024 Atlantic and Gulf Coastal Plain – Version 2.0

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP 08

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. *Pinus palustris*	70	Yes	FAC
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	70 =Total Cover		
50% of total cover: 35	20% of total cover: 14		
Sapling/Shrub Stratum (Plot size: 30')			
1. *Magnolia virginiana*	10	Yes	FACW
2. *Ilex vomitoria*	10	Yes	FAC
3. *Liriodendron tulipifera*	10	Yes	FACU
4. *Quercus falcata*	10	Yes	FACU
5. *Vaccinium elliottii*	5	No	FACW
6.			
7.			
8.			
	45 =Total Cover		
50% of total cover: 23	20% of total cover: 9		
Herb Stratum (Plot size: 30')			
1. *Schizachyrium scoparium*	15	Yes	FACU
2. *Andropogon ternarius*	10	Yes	FACU
3. *Solidago altissima*	10	Yes	FACU
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	35 =Total Cover		
50% of total cover: 18	20% of total cover: 7		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
5.			
	=Total Cover		
50% of total cover:	20% of total cover:		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 8 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 37.5% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	15	x 2 =	30
FAC species	80	x 3 =	240
FACU species	55	x 4 =	220
UPL species	0	x 5 =	0
Column Totals:	150 (A)		490 (B)
Prevalence Index = B/A =			3.27

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody Vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ___ No X

Remarks: (If observed, list morphological adaptations below.)
Site does not meet hydrophytic vegetation criteria. Vegetation disurbed by planting and management of longleaf pine plantation.

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SOIL Sampling Point: DP 08

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-3	2.5Y 3/2	100					Sandy	
3-12	2.5Y 5/3	100					Sandy	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Organic Bodies (A6) **(LRR P, T, U)**
- ___ 5 cm Mucky Mineral (A7) **(LRR P, T, U)**
- ___ Muck Presence (A8) **(LRR U)**
- ___ 1 cm Muck (A9) **(LRR P, T)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Coast Prairie Redox (A16) **(MLRA 150A)**
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1) **(LRR O, S)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR P, S, T, U)**
- ___ Polyvalue Below Surface (S8) **(LRR S, T, U)**
- ___ Thin Dark Surface (S9) **(LRR S, T, U)**
- ___ Barrier Islands 1 cm Muck (S12) **(MLRA 153B, 153D)**
- ___ Loamy Mucky Mineral (F1) **(LRR O)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) **(LRR U)**
- ___ Depleted Ochric (F11) **(MLRA 151)**
- ___ Iron-Manganese Masses (F12) **(LRR O, P, T)**
- ___ Umbric Surface (F13) **(LRR P, T, U)**
- ___ Delta Ochric (F17) **(MLRA 151)**
- ___ Reduced Vertic (F18) **(MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149A)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 149A, 153C, 153D)**
- ___ Very Shallow Dark Surface (F22) **(MLRA 138, 152A in FL, 154)**

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) **(LRR O)**
- ___ 2 cm Muck (A10) **(LRR S)**
- ___ Coast Prairie Redox (A16) **(MLRA 149A)**
- ___ Reduced Vertic (F18) **(outside MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(LRR P, T)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 153B)**
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22) **(outside MLRA 138, 152A in FL, 154)**
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ____ **No** X

Remarks:
Site does not meet hydric soil criteria.

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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: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: US 11 Improvements City/County: Lamar County Sampling Date: 2/10/2026
Applicant/Owner: MDOT State: MS Sampling Point: DP 09
Investigator(s): Wilson Harper Section, Township, Range: S 13, T 3 N, R 14 W
Landform (hillside, terrace, etc.): Hillside Local relief (concave, convex, none): Convex Slope (%): 6
Subregion (LRR or MLRA): LRR P, MLRA 133C Lat: 31.221279 Long: -89.355873 Datum: WGS 84
Soil Map Unit Name: McLaurin-Lucy Association, rolling 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 X , Soil ____ , or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____ , Soil ____ , or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes X	No ____	

Remarks:
Site is drier than normal according to the USACE Antecedent Precipitation Tool. Vegetation cleared/maintained for industrial development. Site does not meet all three criteria and is not located within a wetland.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- X Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15) **(LRR U)**
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary 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)
- X Saturation Visible on Aerial Imagery (C9)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- X FAC-Neutral Test (D5)
- ___ Sphagnum Moss (D8) **(LRR T, U)**

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes X	No ____	Depth (inches): 6

Wetland Hydrology Present? Yes X No ____

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

Remarks:
Site meets wetland hydrology criteria.

ENG FORM 6116-2, SEP 2024 Atlantic and Gulf Coastal Plain – Version 2.0

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP 09

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	=Total Cover		
50% of total cover:	20% of total cover:		
Sapling/Shrub Stratum (Plot size: 30')			
1. *Quercus nigra*	10	Yes	FAC
2. *Morella cerifera*	5	Yes	FAC
3. *Magnolia virginiana*	5	Yes	FACW
4. *Ilex vomitoria*	5	Yes	FAC
5. *Quercus stellata*	5	Yes	UPL
6.			
7.			
8.			
	30 =Total Cover		
50% of total cover: 15	20% of total cover: 6		
Herb Stratum (Plot size: 30')			
1. *Rubus trivialis*	30	Yes	FACU
2. *Rhexia mariana*	10	Yes	FACW
3. *Agalinis fasciculata*	5	No	FAC
4. *Dichanthelium scoparium*	5	No	FACW
5. *Panicum virgatum*	5	No	FAC
6. *Rhynchospora glomerata*	5	No	OBL
7.			
8.			
9.			
10.			
11.			
12.			
	60 =Total Cover		
50% of total cover: 30	20% of total cover: 12		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
5.			
	=Total Cover		
50% of total cover:	20% of total cover:		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 71.4% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	5	x 1 =	5
FACW species	20	x 2 =	40
FAC species	30	x 3 =	90
FACU species	30	x 4 =	120
UPL species	5	x 5 =	25
Column Totals:	90 (A)		280 (B)
Prevalence Index = B/A =			3.11

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 be present, unless disturbed or problematic.

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody Vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (If observed, list morphological adaptations below.)
Site meets hydrophytic vegetation criteria. Vegetation cleared/maintained for EOMS development.

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SOIL Sampling Point: DP 09

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	7.5YR 4/1	90					Sandy	Silty Sand
6-8	7.5YR 7/1	100					Sandy	
8-12	7.5YR 2.5/1	100					Sandy	Sandy Clay Loam

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Organic Bodies (A6) **(LRR P, T, U)**
- ___ 5 cm Mucky Mineral (A7) **(LRR P, T, U)**
- ___ Muck Presence (A8) **(LRR U)**
- ___ 1 cm Muck (A9) **(LRR P, T)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Coast Prairie Redox (A16) **(MLRA 150A)**
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1) **(LRR O, S)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR P, S, T, U)**
- ___ Polyvalue Below Surface (S8) **(LRR S, T, U)**
- ___ Thin Dark Surface (S9) **(LRR S, T, U)**
- ___ Barrier Islands 1 cm Muck (S12) **(MLRA 153B, 153D)**
- ___ Loamy Mucky Mineral (F1) **(LRR O)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) **(LRR U)**
- ___ Depleted Ochric (F11) **(MLRA 151)**
- ___ Iron-Manganese Masses (F12) **(LRR O, P, T)**
- ___ Umbric Surface (F13) **(LRR P, T, U)**
- ___ Delta Ochric (F17) **(MLRA 151)**
- ___ Reduced Vertic (F18) **(MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149A)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 149A, 153C, 153D)**
- ___ Very Shallow Dark Surface (F22) **(MLRA 138, 152A in FL, 154)**

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) **(LRR O)**
- ___ 2 cm Muck (A10) **(LRR S)**
- ___ Coast Prairie Redox (A16) **(MLRA 149A)**
- ___ Reduced Vertic (F18) **(outside MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(LRR P, T)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 153B)**
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22) **(outside MLRA 138, 152A in FL, 154)**
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

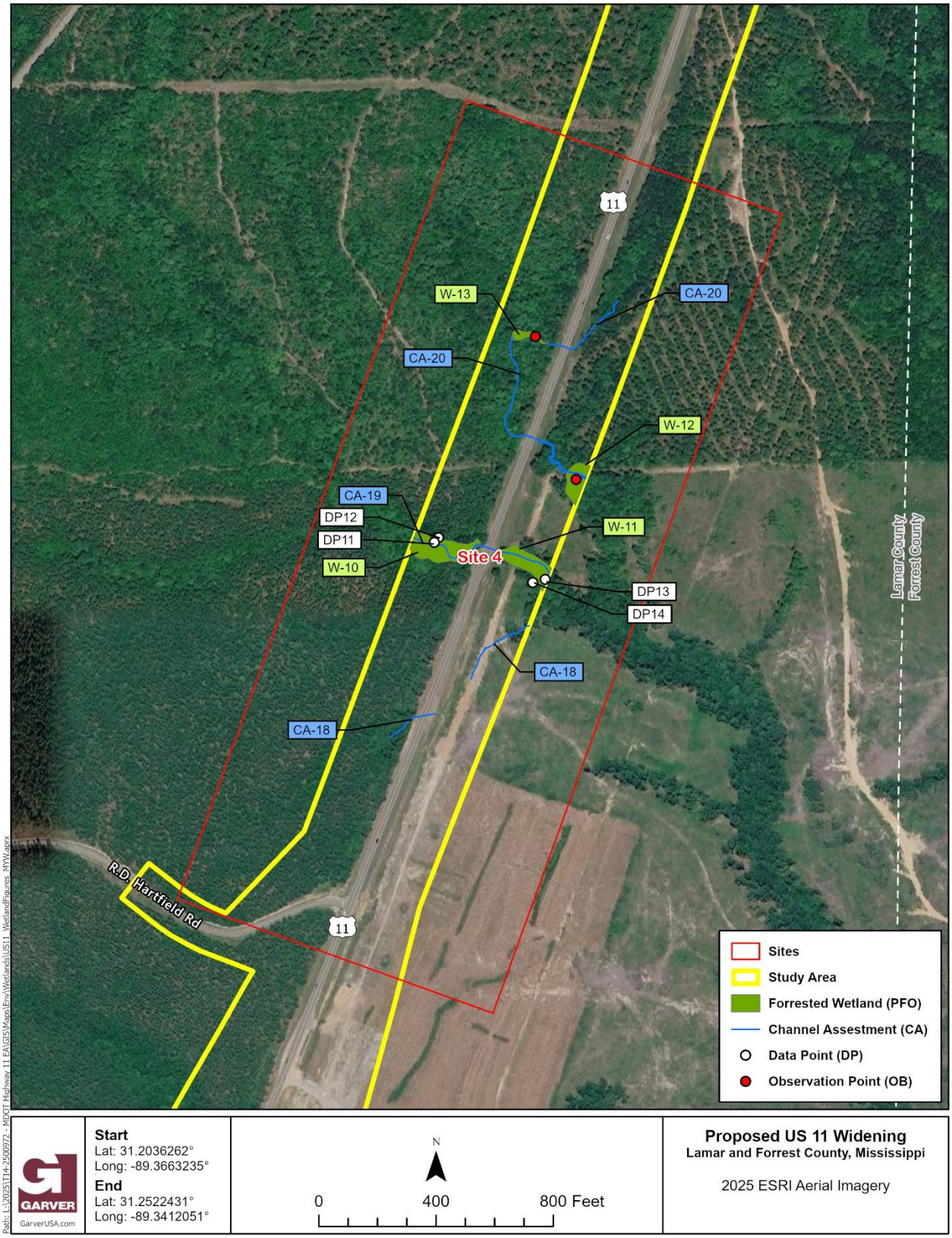
Hydric Soil Present? **Yes** ____ **No** X

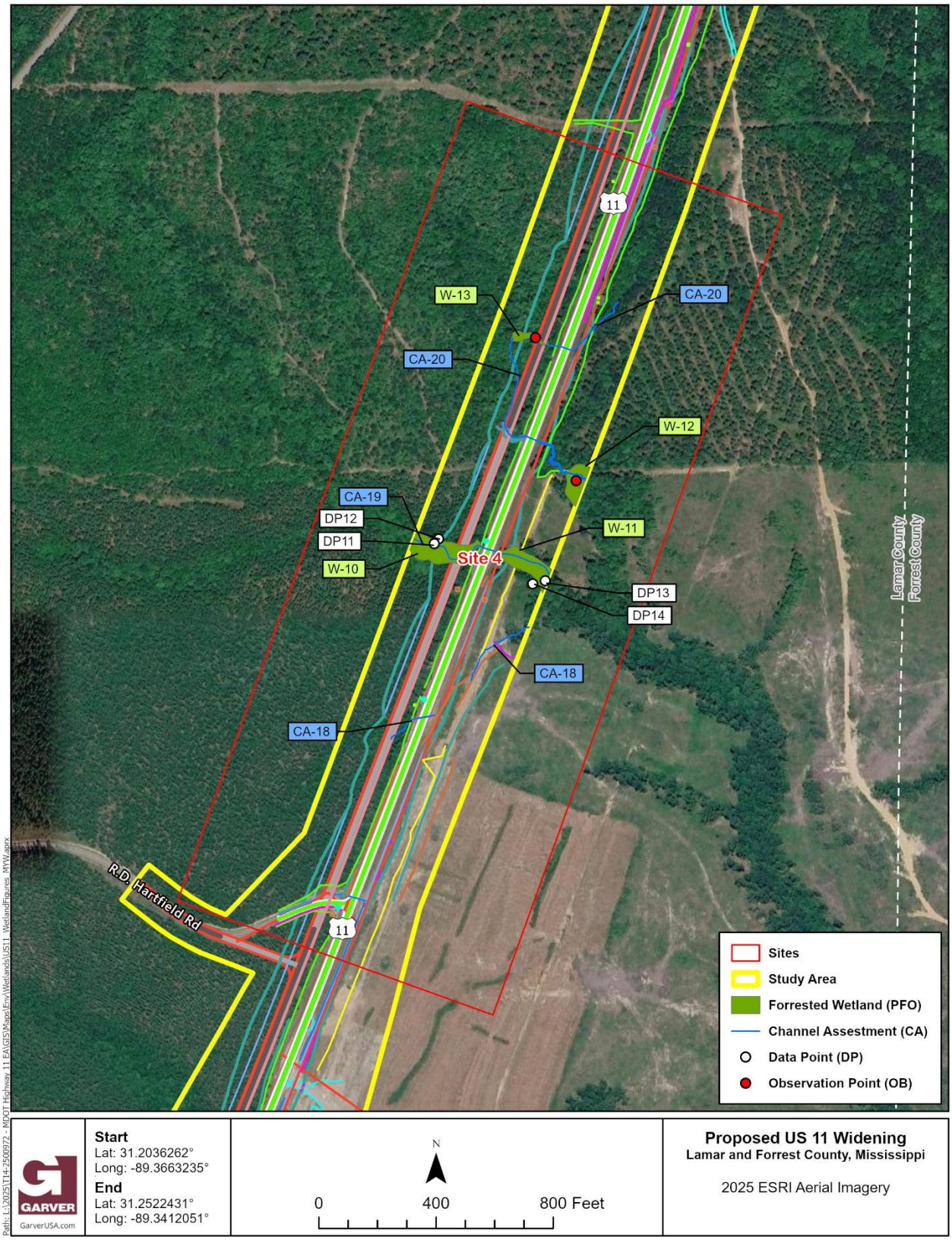
Remarks:

0"-6" second matrix color: 7.5YR 7/1, 10%. Site does not meet hydric soil criteria.

ENG FORM 6116-2, SEP 2024 Atlantic and Gulf Coastal Plain – Version 2.0

Site 4


11
W-13
CA-20
CA-20
W-12
CA-19
DP12
DP11
W-10
W-11
Site 4
DP13
DP14
CA-18
CA-18
R.D. Hartfield Rd
11
Lamar County
Forrest County
Sites
Study Area
Forrested Wetland (PFO)
Channel Assestment (CA)
Data Point (DP)
Observation Point (OB)
Start
Lat: 31.2036262°
Long: -89.3663235°
End
Lat: 31.2522431°
Long: -89.3412051°
GARVER
GarverUSA.com
N
0
400
800 Feet
Proposed US 11 Widening
Lamar and Forrest County, Mississippi
2025 ESRI Aerial Imagery
Path: L:\2025\T14-2500972 - MDOT Highway 11 EA\GIS\Maps\Env\Wetlands\US11_WetlandFigures_MYW.aprx


11
W-13
CA-20
CA-20
W-12
CA-19
DP12
DP11
W-10
Site 4
W-11
DP13
DP14
CA-18
CA-18
R.D. Hartfield Rd
11
Lamar County
Forrest County
Sites
Study Area
Forrested Wetland (PFO)
Channel Assestment (CA)
Data Point (DP)
Observation Point (OB)
Start
Lat: 31.2036262°
Long: -89.3663235°
End
Lat: 31.2522431°
Long: -89.3412051°
GARVER
GarverUSA.com
N
0
400
800 Feet
Proposed US 11 Widening
Lamar and Forrest County, Mississippi
2025 ESRI Aerial Imagery
Path: L:\2025\T14-2500972 - MDOT Highway 11 EA\GIS\Maps\Env\Wetlands\US11_WetlandFigures_MYW.aprx

CA-18	
Ephemeral Stream	
	
Description	CA-18 where it enters a culvert under US 11. View is downgradient to the northeast.
CA-18	
Ephemeral Stream	
	
Description	CA-18. View is downgradient to the north-northeast.

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

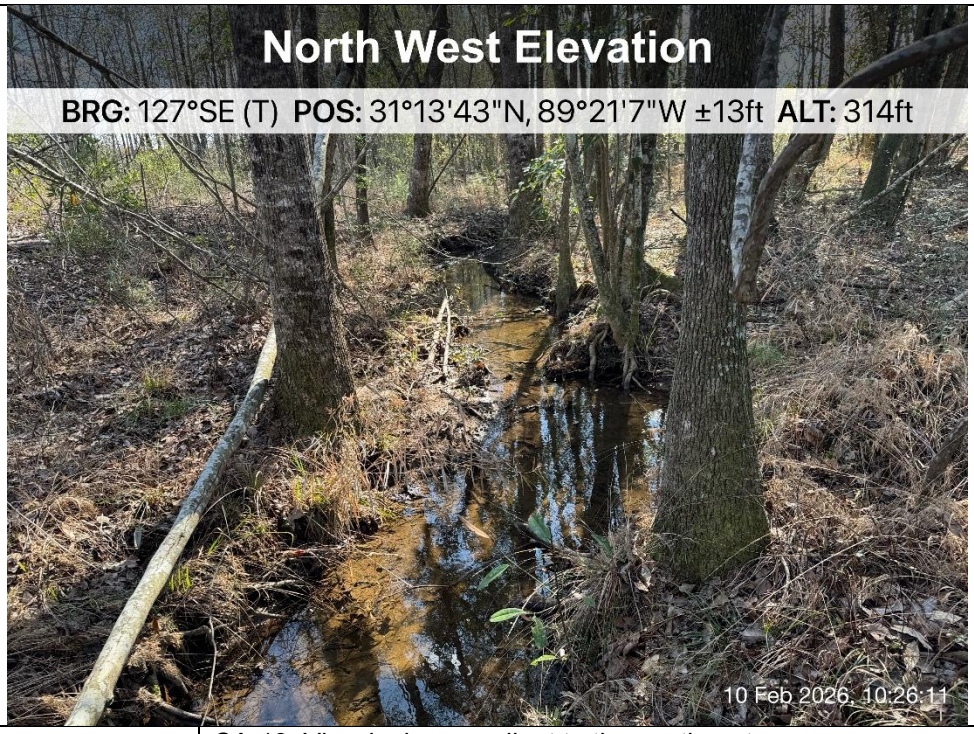
Project: US 11 Improvements	**City/County/State:** Lamar County, Mississippi	
Investigator(s): Wilson Harper	**Lat:** 31.227507 **Long:** -89.353578	**Sample Location ID:** CA-18
Applicant/Owner: Mississippi Department of Transportation	**Date:** 2/10/2026	
Reason for Survey: Wetland Delineation		
River Basin/HUC Number: 03170007 **Size of Watershed:** 811,067 acres **Size of Drainage Area:** 12.5 acres	**Tributary Name (if known):** N/A **Nearest TNW:** Pascagoula River	

TRIBUTARY CHARACTERIZATION	**Tributary subsystem:** ☑ Ephemeral ☐ Intermittent ☐ Perennial **Tributary flows directly into a TNW?** **Explain:** No **Distance to nearest TNW:** River Miles: 75.5 Aerial Miles: 57.9 **Describe flow route to TNW:** Unnamed tributary into unnamed tributary (CA19), thence into Black Tom Creek, thence into Black Creek, thence into Big Black Creek, thence into Pascagoula River. **Tributary is** (natural / artificial / manipulated): **Explain:** Manipulated. Culvert under US 11.
WEATHER CONDITIONS	**Current:** ☐ rain (steady rain) ☐ showers (intermittent) ☑ cloud cover 100 (%) ☐ clear/ sunny air temperature: 61 (°F) **Has there been heavy rain in the last 7 days?** No **Average Rainfall:** 0.0 (in.) **Comment:**
WATERSHED FEATURES	**Predominant surrounding landuse:** ☑ Forest ☐ Commercial ☑ Other (Explain): Transportation ☑ Field/Pasture ☐ Industrial ☐ Agricultural ☐ Residential

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

TRIBUTARY FEATURES	**Estimated reach length**: 475 (ft.) **Estimated channel width**: 0.5 (ft.) **Estimated channel depth**: 0.25 (ft.) **Channelized:** No **Dam present:** No **Estimated slope of banks**: vertical ☐ 2:1 ☑ 3:1 ☐ 4:1 ☐ greater ☐ **Substrate:** sand ☑ cobble ☐ silt ☑ gravel ☐
TRIBUTARY CONDITION	**Tributary has** (defined bed and banks / OHWM): **Explain:** OHWM **Bank stability** (highly eroded, sloughing banks, etc): **Explain:** Lightly eroded **Riffle / Run / Pool complex:** No **Explain:** Not observed
FLOW CONDITIONS	**Tributary geometry** (relatively straight, meandering, other): **Explain:** Relatively straight **Current flow is** (discrete, confined, overland sheet flow, etc): **Explain:** None **Average flow events per year:** Unknow
VEGETATION	**Approximate width of riparian buffer:** 20 (ft.) **Dominant species present** (top bank / buffer): *Quercus nigra, Ligustrum sinense, Smilax laurelfolia, Smilax rotundifolia. Andropogon ternarius* **Aquatic vegetation present:** No **Comment:**

CA-19	
Perennial Stream	
	
Description	CA-19. View is upgradient to the west.
CA-19	
Perennial Stream	
	
Description	CA-19. View is downgradient to the southeast.

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

Project: US 11 Improvements	**City/County/State:** Lamar County, Mississippi	
Investigator(s): Wilson Harper	**Lat:** 31.229146 **Long:** -89.353466	**Sample Location ID:** CA-19
Applicant/Owner: Mississippi Department of Transportation	**Date:** 2/10/2026	
Reason for Survey: Wetland Delineation		
River Basin/HUC Number: 03170007 **Size of Watershed:** 811,067 acres **Size of Drainage Area:** 85 acres	**Tributary Name (if known):** N/A **Nearest TNW:** Pascagoula River	

TRIBUTARY CHARACTERIZATION	**Tributary subsystem:** ☐ Ephemeral ☐ Intermittent ☑ Perennial **Tributary flows directly into a TNW?** **Explain:** No **Distance to nearest TNW:** River Miles: 75.5 Aerial Miles: 57.9 **Describe flow route to TNW:** Unnamed tributary into Black Tom Creek, thence into Black Creek, thence into Big Black Creek, thence into Pascagoula River. **Tributary is** (natural / artificial / manipulated): **Explain:** Manipulated. Culvert under US 11.
WEATHER CONDITIONS	**Current:** ☐ rain (steady rain) ☐ showers (intermittent) ☑ cloud cover 50 (%) ☐ clear/ sunny air temperature: 64 (°F) **Has there been heavy rain in the last 7 days?** No **Average Rainfall:** 0.0 (in.) **Comment:**
WATERSHED FEATURES	**Predominant surrounding landuse:** ☑ Forest ☐ Commercial ☑ Other (Explain): Transportation ☐ Field/Pasture ☐ Industrial ☐ Agricultural ☐ Residential

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

TRIBUTARY FEATURES	**Estimated reach length**: 541 (ft.) **Estimated channel width**: 3 (ft.) **Estimated channel depth**: 1 (ft.) **Channelized:** No **Dam present:** No **Estimated slope of banks**: vertical ☐ 2:1 ☑ 3:1 ☐ 4:1 ☐ greater ☐ **Substrate:** sand ☑ cobble ☐ silt ☑ gravel ☐
TRIBUTARY CONDITION	**Tributary has** (defined bed and banks / OHWM): **Explain:** Defined bed and banks **Bank stability** (highly eroded, sloughing banks, etc): **Explain:** Relatively stable **Riffle / Run / Pool complex:** Yes **Explain:** All observed
FLOW CONDITIONS	**Tributary geometry** (relatively straight, meandering, other): **Explain:** Relatively straight **Current flow is** (discrete, confined, overland sheet flow, etc): **Explain:** Confined **Average flow events per year:** 365
VEGETATION	**Approximate width of riparian buffer:** 0 - 500 (ft.) **Dominant species present** (top bank / buffer): *Magnolia virginiana, Quercus nigra, Pinus palustris* **Aquatic vegetation present:** No **Comment:**

W-10	
Forested Wetland	
	
Description	W-10. View is to the southwest.
DP 11	
Hydric Soil	
	
Description	Hydric soil at DP 11 within W-10.

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: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: US 11 Improvements City/County: Lamar County Sampling Date: 2/10/2026
Applicant/Owner: MDOT State: MS Sampling Point: DP 11
Investigator(s): Wilson Harper Section, Township, Range: S 13, T 3 N, R 14 W
Landform (hillside, terrace, etc.): Floodplain Local relief (concave, convex, none): Concave Slope (%): 1
Subregion (LRR or MLRA): LRR P, MLRA 133C Lat: 31.229150 Long: -89.353363 Datum: WGS 84
Soil Map Unit Name: McLaurin-Lucy Association, rolling 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 X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?** **Yes** X **No** ____
Hydric Soil Present?	Yes X	No ____	
Wetland Hydrology Present?	Yes X	No ____	

Remarks:
Site is drier than normal according to the USACE Antecedent Precipitation Tool. Site meets all three criteria and is located within a wetland.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- X High Water Table (A2)
- X Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- X Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- X Aquatic Fauna (B13)
- ___ Marl Deposits (B15) **(LRR U)**
- ___ Hydrogen Sulfide Odor (C1)
- X Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- X Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- X FAC-Neutral Test (D5)
- ___ Sphagnum Moss (D8) **(LRR T, U)**

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes X	No ____	Depth (inches): 0
Saturation Present? (includes capillary fringe)	Yes X	No ____	Depth (inches): 0

Wetland Hydrology Present? **Yes** X **No** ____

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

Remarks:
Site meets wetland hydrology criteria.

ENG FORM 6116-2, SEP 2024 Atlantic and Gulf Coastal Plain – Version 2.0

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP 11

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. *Magnolia virginiana*	25	Yes	FACW
2. *Quercus nigra*	5	No	FAC
3.			
4.			
5.			
6.			
7.			
8.			
	30	=Total Cover	
50% of total cover: 15		20% of total cover:	6
Sapling/Shrub Stratum (Plot size: 30')			
1. *Magnolia virginiana*	10	Yes	FACW
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	10	=Total Cover	
50% of total cover: 5		20% of total cover:	2
Herb Stratum (Plot size: 30')			
1. *Carex lurida*	10	Yes	OBL
2. *Dichanthelium scoparium*	10	Yes	FACW
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	20	=Total Cover	
50% of total cover: 10		20% of total cover:	4
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
5.			
		=Total Cover	
50% of total cover:		20% of total cover:	

Dominance Test worksheet:

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/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

X 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody Vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (If observed, list morphological adaptations below.)
Site meets hydrophytic vegetation criteria.

ENG FORM 6116-2, SEP 2024 Atlantic and Gulf Coastal Plain – Version 2.0

SOIL Sampling Point: DP 11

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	7.5YR 2.5/1	97	7.5YR 4/6	3	C	M	Loamy/Clayey	Prominent redox concentrations;Silt Loam

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Organic Bodies (A6) **(LRR P, T, U)**
- ___ 5 cm Mucky Mineral (A7) **(LRR P, T, U)**
- ___ Muck Presence (A8) **(LRR U)**
- ___ 1 cm Muck (A9) **(LRR P, T)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Coast Prairie Redox (A16) **(MLRA 150A)**
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1) **(LRR O, S)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR P, S, T, U)**
- ___ Polyvalue Below Surface (S8) **(LRR S, T, U)**
- ___ Thin Dark Surface (S9) **(LRR S, T, U)**
- ___ Barrier Islands 1 cm Muck (S12) **(MLRA 153B, 153D)**
- ___ Loamy Mucky Mineral (F1) **(LRR O)**
- ___ Loamy Gleyed Matrix (F2)
- X Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) **(LRR U)**
- ___ Depleted Ochric (F11) **(MLRA 151)**
- ___ Iron-Manganese Masses (F12) **(LRR O, P, T)**
- ___ Umbric Surface (F13) **(LRR P, T, U)**
- ___ Delta Ochric (F17) **(MLRA 151)**
- ___ Reduced Vertic (F18) **(MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149A)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 149A, 153C, 153D)**
- ___ Very Shallow Dark Surface (F22) **(MLRA 138, 152A in FL, 154)**

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) **(LRR O)**
- ___ 2 cm Muck (A10) **(LRR S)**
- ___ Coast Prairie Redox (A16) **(MLRA 149A)**
- ___ Reduced Vertic (F18) **(outside MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(LRR P, T)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 153B)**
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22) **(outside MLRA 138, 152A in FL, 154)**
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks:
Site meets hydric soil criteria.

ENG FORM 6116-2, SEP 2024 Atlantic and Gulf Coastal Plain – Version 2.0

W-11	
Forested Wetland	
	
Description	W-11. View is to the south-southeast
DP 13	
Hydric Soil	
	
Description	Hydric soil at DP 13 within W-11.

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: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: US 11 Improvements City/County: Lamar County Sampling Date: 2/10/2026
Applicant/Owner: MDOT State: MS Sampling Point: DP 13
Investigator(s): Wilson Harper Section, Township, Range: S 13, T 3 N, R 14 W
Landform (hillside, terrace, etc.): Floodplain Local relief (concave, convex, none): Concave Slope (%): 1
Subregion (LRR or MLRA): LRR P, MLRA 133C Lat: 31.228806 Long: -89.352150 Datum: WGS 84
Soil Map Unit Name: McLaurin-Lucy Association, rolling 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 X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?** **Yes** X **No** ____
Hydric Soil Present?	Yes X	No ____	
Wetland Hydrology Present?	Yes X	No ____	

Remarks:
Site is drier than normal according to the USACE Antecedent Precipitation Tool. Site meets all three criteria and is located within a wetland.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- X Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- X Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- X Aquatic Fauna (B13)
- ___ Marl Deposits (B15) **(LRR U)**
- ___ Hydrogen Sulfide Odor (C1)
- X Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- X Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- X FAC-Neutral Test (D5)
- ___ 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? (includes capillary fringe)	Yes X	No ____	Depth (inches): 6

Wetland Hydrology Present? **Yes** X **No** ____

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

Remarks:
Site meets wetland hydrology criteria.

ENG FORM 6116-2, SEP 2024 Atlantic and Gulf Coastal Plain – Version 2.0

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP 13

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. *Magnolia virginiana*	20	Yes	FACW
2. *Pinus palustris*	15	Yes	FAC
3. *Acer rubrum*	10	Yes	FAC
4. *Liquidambar styraciflua*	5	No	FAC
5.			
6.			
7.			
8.			
	50	=Total Cover	
50% of total cover: 25	20% of total cover:		10
Sapling/Shrub Stratum (Plot size: 30')			
1. *Ilex vomitoria*	15	Yes	FAC
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	15	=Total Cover	
50% of total cover: 8	20% of total cover:		3
Herb Stratum (Plot size: 30')			
1. *Chasmanthium sessiliflorum*	20	Yes	FAC
2. *Dichanthelium scoparium*	15	Yes	FACW
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	35	=Total Cover	
50% of total cover: 18	20% of total cover:		7
Woody Vine Stratum (Plot size: 30')			
1. *Smilax laurifolia*	5	Yes	FACW
2.			
3.			
4.			
5.			
	5	=Total Cover	
50% of total cover: 3	20% of total cover:		1

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 7 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)
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]

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody Vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (If observed, list morphological adaptations below.)
Site meets hydrophytic vegetation criteria.

ENG FORM 6116-2, SEP 2024 Atlantic and Gulf Coastal Plain – Version 2.0

SOIL Sampling Point: DP 13

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-8	7.5YR 2.5/1	97	7.5YR 4/6	3	C	M	Loamy/Clayey	Prominent redox concentrations;Silt Loam
8-10	7.5YR 7/2	80	2.5YR 3/6	20	C	M	Sandy	Prominent redox concentrations
10-12	7.5YR 2.5/1	100					Loamy/Clayey	Sandy Silt Loam

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Organic Bodies (A6) **(LRR P, T, U)**
- ___ 5 cm Mucky Mineral (A7) **(LRR P, T, U)**
- ___ Muck Presence (A8) **(LRR U)**
- ___ 1 cm Muck (A9) **(LRR P, T)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Coast Prairie Redox (A16) **(MLRA 150A)**
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1) **(LRR O, S)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR P, S, T, U)**
- ___ Polyvalue Below Surface (S8) **(LRR S, T, U)**
- ___ Thin Dark Surface (S9) **(LRR S, T, U)**
- ___ Barrier Islands 1 cm Muck (S12) **(MLRA 153B, 153D)**
- ___ Loamy Mucky Mineral (F1) **(LRR O)**
- ___ Loamy Gleyed Matrix (F2)
- X Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) **(LRR U)**
- ___ Depleted Ochric (F11) **(MLRA 151)**
- ___ Iron-Manganese Masses (F12) **(LRR O, P, T)**
- ___ Umbric Surface (F13) **(LRR P, T, U)**
- ___ Delta Ochric (F17) **(MLRA 151)**
- ___ Reduced Vertic (F18) **(MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149A)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 149A, 153C, 153D)**
- ___ Very Shallow Dark Surface (F22) **(MLRA 138, 152A in FL, 154)**

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) **(LRR O)**
- ___ 2 cm Muck (A10) **(LRR S)**
- ___ Coast Prairie Redox (A16) **(MLRA 149A)**
- ___ Reduced Vertic (F18) **(outside MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(LRR P, T)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 153B)**
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22) **(outside MLRA 138, 152A in FL, 154)**
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

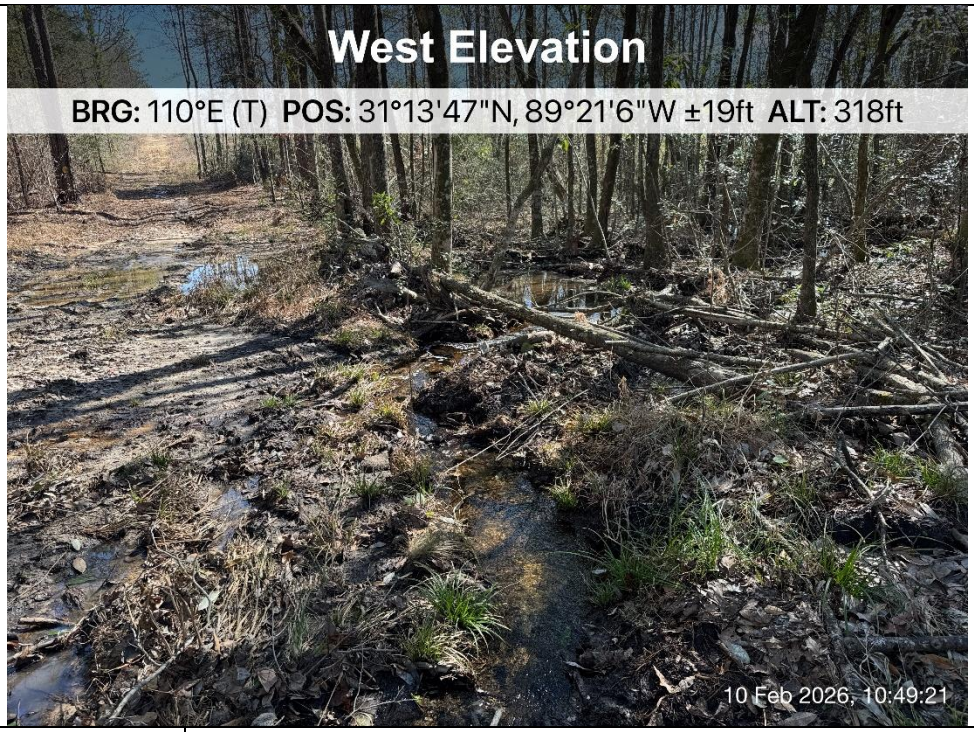
Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks:
Site meets hydric soil criteria.

ENG FORM 6116-2, SEP 2024 Atlantic and Gulf Coastal Plain – Version 2.0

CA-20	
Perennial Stream	
	
Description	CA-20. View is upgradient to the west.

CA-20	
Perennial Stream	
	
Description	CA-20. View is downgradient to the east where it enters W-12.

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

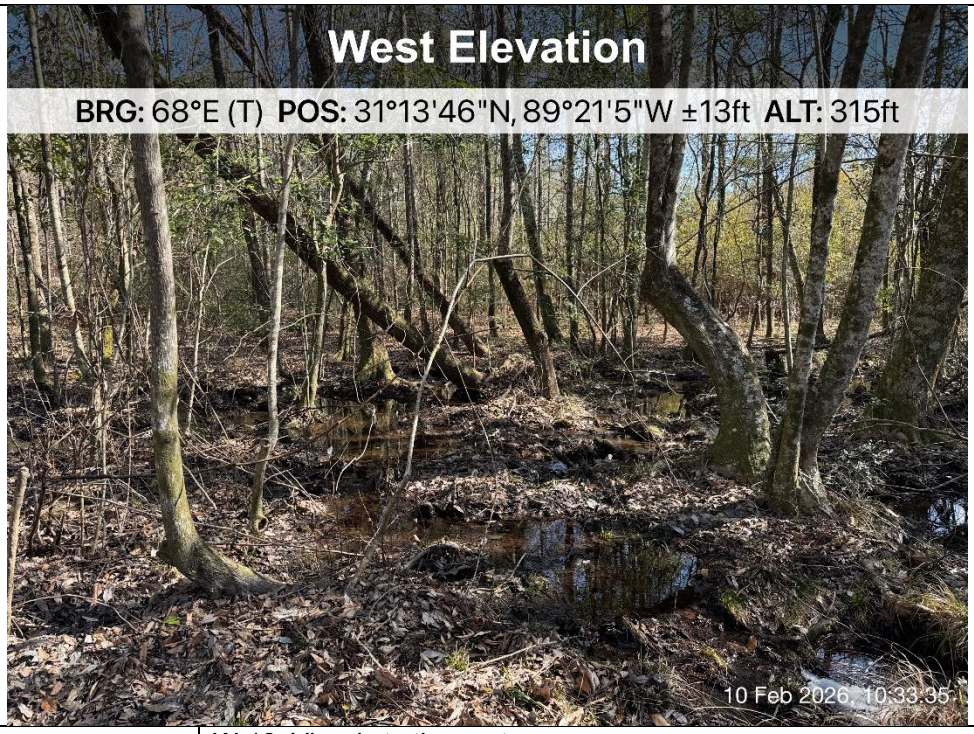
Project: US 11 Improvements	**City/County/State:** Lamar County, Mississippi	
Investigator(s): Wilson Harper	**Lat:** 31.230099 **Long:** -89.352173	**Sample Location ID:** CA-20
Applicant/Owner: Mississippi Department of Transportation	**Date:** 2/10/2026	
Reason for Survey: Wetland Delineation		
River Basin/HUC Number: 03170007 **Size of Watershed:** 811,067 acres **Size of Drainage Area:** 30 acres	**Tributary Name (if known):** N/A **Nearest TNW:** Pascagoula River	

TRIBUTARY CHARACTERIZATION	**Tributary subsystem:** ☐ Ephemeral ☐ Intermittent ☑ Perennial **Tributary flows directly into a TNW?** **Explain:** No **Distance to nearest TNW:** River Miles: 75.5 Aerial Miles: 57.9 **Describe flow route to TNW:** Unnamed tributary into unnamed tributary (CA19, thence into Black Tom Creek, thence into Black Creek, thence into Big Black Creek, thence into Pascagoula River. **Tributary is** (natural / artificial / manipulated): **Explain:** Manipulated. Two culvert crossings under US 11.
WEATHER CONDITIONS	**Current:** ☐ rain (steady rain) ☐ showers (intermittent) ☐ cloud cover_____ (%) ☑ clear/ sunny air temperature: 69 (°F) **Has there been heavy rain in the last 7 days?** No **Average Rainfall:** 0.0 (in.) **Comment:**
WATERSHED FEATURES	**Predominant surrounding landuse:** ☑ Forest ☐ Commercial ☑ Other (Explain): Transportation ☐ Field/Pasture ☐ Industrial ☐ Agricultural ☐ Residential

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

TRIBUTARY FEATURES	**Estimated reach length**: 1,019 (ft.) **Estimated channel width**: 2 (ft.) **Estimated channel depth**: 1 (ft.) **Channelized:** No **Dam present:** No **Estimated slope of banks**: vertical [✓] 2:1 [ ] 3:1 [ ] 4:1 [ ] greater [ ] **Substrate:** sand [✓] cobble [ ] silt [✓] gravel [ ]
TRIBUTARY CONDITION	**Tributary has** (defined bed and banks / OHWM): **Explain:** Defined bed and banks. Begins to lose definition downstream and becomes a wetland (W12). **Bank stability** (highly eroded, sloughing banks, etc): **Explain:** Eroded **Riffle / Run / Pool complex:** Yes **Explain:** All observed
FLOW CONDITIONS	**Tributary geometry** (relatively straight, meandering, other): **Explain:** Meandering **Current flow is** (discrete, confined, overland sheet flow, etc): **Explain:** Confined. Springs observed **Average flow events per year:** Unknow
VEGETATION	**Approximate width of riparian buffer:** 200 (ft.) **Dominant species present** (top bank / buffer): *Magnolia virginiana, Liquidambar styraciflua, Pinus palustris, Chasmanthium sessiliflorum, Dichanthelium scoparium* **Aquatic vegetation present:** No **Comment:**

W-12	
Forested Wetland	
	
Description	W-12. View is to the east
OB Soil Check	
Hydric Soil	
	
Description	Hydric soil at an observation point within W-12.

W-13	
Forested Wetland	
	
Description	W-13. View is to the southwest
OB Soil Check	
Hydric Soil	
	
Description	Hydric soil at an observation point within W-13.

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: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: US 11 Improvements City/County: Lamar County Sampling Date: 2/10/2026
Applicant/Owner: MDOT State: MS Sampling Point: DP 12
Investigator(s): Wilson Harper Section, Township, Range: S 13, T 3 N, R 14 W
Landform (hillside, terrace, etc.): Hillside Local relief (concave, convex, none): Convex Slope (%): 4
Subregion (LRR or MLRA): LRR P, MLRA 133C Lat: 31.229195 Long: -89.353314 Datum: WGS 84
Soil Map Unit Name: McLaurin-Lucy Association, rolling 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 X , Soil ____ , or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____ , Soil ____ , or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes ____	No X	

Remarks:
Site is drier than normal according to the USACE Antecedent Precipitation Tool. Vegetation disturbed by planting and management of longleaf pine plantation. Site does not meet all three criteria and is not located within a wetland.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15) **(LRR U)**
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary 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)
- X FAC-Neutral Test (D5)
- ___ Sphagnum Moss (D8) **(LRR T, U)**

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? Yes ____ No X

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

Remarks:
Site does not meet wetland hydrology criteria.

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VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP 12

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. *Pinus palustris*	45	Yes	FAC
2. *Acer rubrum*	10	No	FAC
3. *Magnolia virginiana*	10	No	FACW
4.			
5.			
6.			
7.			
8.			
	65	=Total Cover	
50% of total cover: 33	20% of total cover: 13		
Sapling/Shrub Stratum (Plot size: 30')			
1. *Magnolia virginiana*	10	Yes	FACW
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	10	=Total Cover	
50% of total cover: 5	20% of total cover: 2		
Herb Stratum (Plot size: 30')			
1. *Arundinaria gigantea*	5	Yes	FACW
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	5	=Total Cover	
50% of total cover: 3	20% of total cover: 1		
Woody Vine Stratum (Plot size: 30')			
1. *Smilax rotundifolia*	10	Yes	FAC
2.			
3.			
4.			
5.			
	10	=Total Cover	
50% of total cover: 5	20% of total cover: 2		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	25	x 2 =	50
FAC species	65	x 3 =	195
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	90 (A)		245 (B)

Prevalence Index = B/A = 2.72

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 be present, unless disturbed or problematic.

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody Vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (If observed, list morphological adaptations below.)
Site meets hydrophytic vegetation criteria. Vegetation disturbed by planting and management of longleaf pine plantation.

ENG FORM 6116-2, SEP 2024 Atlantic and Gulf Coastal Plain – Version 2.0

SOIL Sampling Point: DP 12

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	7.5YR 2.5/1	100					Sandy	Silty Sand Loam

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Organic Bodies (A6) **(LRR P, T, U)**
- ___ 5 cm Mucky Mineral (A7) **(LRR P, T, U)**
- ___ Muck Presence (A8) **(LRR U)**
- ___ 1 cm Muck (A9) **(LRR P, T)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Coast Prairie Redox (A16) **(MLRA 150A)**
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1) **(LRR O, S)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR P, S, T, U)**
- ___ Polyvalue Below Surface (S8) **(LRR S, T, U)**
- ___ Thin Dark Surface (S9) **(LRR S, T, U)**
- ___ Barrier Islands 1 cm Muck (S12) **(MLRA 153B, 153D)**
- ___ Loamy Mucky Mineral (F1) **(LRR O)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) **(LRR U)**
- ___ Depleted Ochric (F11) **(MLRA 151)**
- ___ Iron-Manganese Masses (F12) **(LRR O, P, T)**
- ___ Umbric Surface (F13) **(LRR P, T, U)**
- ___ Delta Ochric (F17) **(MLRA 151)**
- ___ Reduced Vertic (F18) **(MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149A)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 149A, 153C, 153D)**
- ___ Very Shallow Dark Surface (F22) **(MLRA 138, 152A in FL, 154)**

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) **(LRR O)**
- ___ 2 cm Muck (A10) **(LRR S)**
- ___ Coast Prairie Redox (A16) **(MLRA 149A)**
- ___ Reduced Vertic (F18) **(outside MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(LRR P, T)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 153B)**
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22) **(outside MLRA 138, 152A in FL, 154)**
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ____ **No** X

Remarks:
Site does not meet hydric soil criteria.

ENG FORM 6116-2, SEP 2024 Atlantic and Gulf Coastal Plain – Version 2.0

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: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: US 11 Improvements City/County: Lamar County Sampling Date: 2/10/2026
Applicant/Owner: MDOT State: MS Sampling Point: DP 14
Investigator(s): Wilson Harper Section, Township, Range: S 13, T 3 N, R 14 W
Landform (hillside, terrace, etc.): Hillside Local relief (concave, convex, none): Convex Slope (%): 5
Subregion (LRR or MLRA): LRR P, MLRA 133C Lat: 31.228775 Long: -89.352284 Datum: WGS 84
Soil Map Unit Name: McLaurin-Lucy Association, rolling 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 X , Soil ____ , or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____ , Soil ____ , or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes X	No ____	

Remarks:
Site is drier than normal according to the USACE Antecedent Precipitation Tool. Vegetation disturbed by clearing related to industrial development. Site does not meet all three criteria and is not located within a wetland.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15) **(LRR U)**
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- X 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)
- X FAC-Neutral Test (D5)
- ___ Sphagnum Moss (D8) **(LRR T, U)**

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** X **No** ____

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

Remarks:
Site meets wetland hydrology criteria.

ENG FORM 6116-2, SEP 2024 Atlantic and Gulf Coastal Plain – Version 2.0

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP 14

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. *Liriodendron tulipifera*	20	Yes	FACU
2. *Acer rubrum*	10	Yes	FAC
3. *Liquidambar styraciflua*	5	No	FAC
4.			
5.			
6.			
7.			
8.			
	35	=Total Cover	
50% of total cover: 18		20% of total cover: 7	
Sapling/Shrub Stratum (Plot size: 30')			
1. *Ilex vomitoria*	10	Yes	FAC
2. *Quercus nigra*	10	Yes	FAC
3. *Magnolia virginiana*	10	Yes	FACW
4.			
5.			
6.			
7.			
8.			
	30	=Total Cover	
50% of total cover: 15		20% of total cover: 6	
Herb Stratum (Plot size: 30')			
1. *Chasmanthium sessiliflorum*	15	Yes	FAC
2. *Dichanthelium scoparium*	5	Yes	FACW
3. *Lygodium japonicum*	5	Yes	FAC
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	25	=Total Cover	
50% of total cover: 13		20% of total cover: 5	
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
5.			
		=Total Cover	
50% of total cover:		20% of total cover:	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 7 (A)

Total Number of Dominant Species Across All Strata: 8 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 87.5% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	15	x 2 =	30
FAC species	55	x 3 =	165
FACU species	20	x 4 =	80
UPL species	0	x 5 =	0
Column Totals:	90 (A)		275 (B)
Prevalence Index = B/A =			3.06

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 be present, unless disturbed or problematic.

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody Vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (If observed, list morphological adaptations below.)
Site meets hydrophytic vegetation criteria. Vegetation disturbed by clearing related to EOMS development.

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SOIL Sampling Point: DP 14

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10YR 7/4	100					Sandy	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Organic Bodies (A6) **(LRR P, T, U)**
- ___ 5 cm Mucky Mineral (A7) **(LRR P, T, U)**
- ___ Muck Presence (A8) **(LRR U)**
- ___ 1 cm Muck (A9) **(LRR P, T)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Coast Prairie Redox (A16) **(MLRA 150A)**
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1) **(LRR O, S)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR P, S, T, U)**
- ___ Polyvalue Below Surface (S8) **(LRR S, T, U)**
- ___ Thin Dark Surface (S9) **(LRR S, T, U)**
- ___ Barrier Islands 1 cm Muck (S12) **(MLRA 153B, 153D)**
- ___ Loamy Mucky Mineral (F1) **(LRR O)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) **(LRR U)**
- ___ Depleted Ochric (F11) **(MLRA 151)**
- ___ Iron-Manganese Masses (F12) **(LRR O, P, T)**
- ___ Umbric Surface (F13) **(LRR P, T, U)**
- ___ Delta Ochric (F17) **(MLRA 151)**
- ___ Reduced Vertic (F18) **(MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149A)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 149A, 153C, 153D)**
- ___ Very Shallow Dark Surface (F22) **(MLRA 138, 152A in FL, 154)**

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) **(LRR O)**
- ___ 2 cm Muck (A10) **(LRR S)**
- ___ Coast Prairie Redox (A16) **(MLRA 149A)**
- ___ Reduced Vertic (F18) **(outside MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(LRR P, T)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 153B)**
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22) **(outside MLRA 138, 152A in FL, 154)**
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

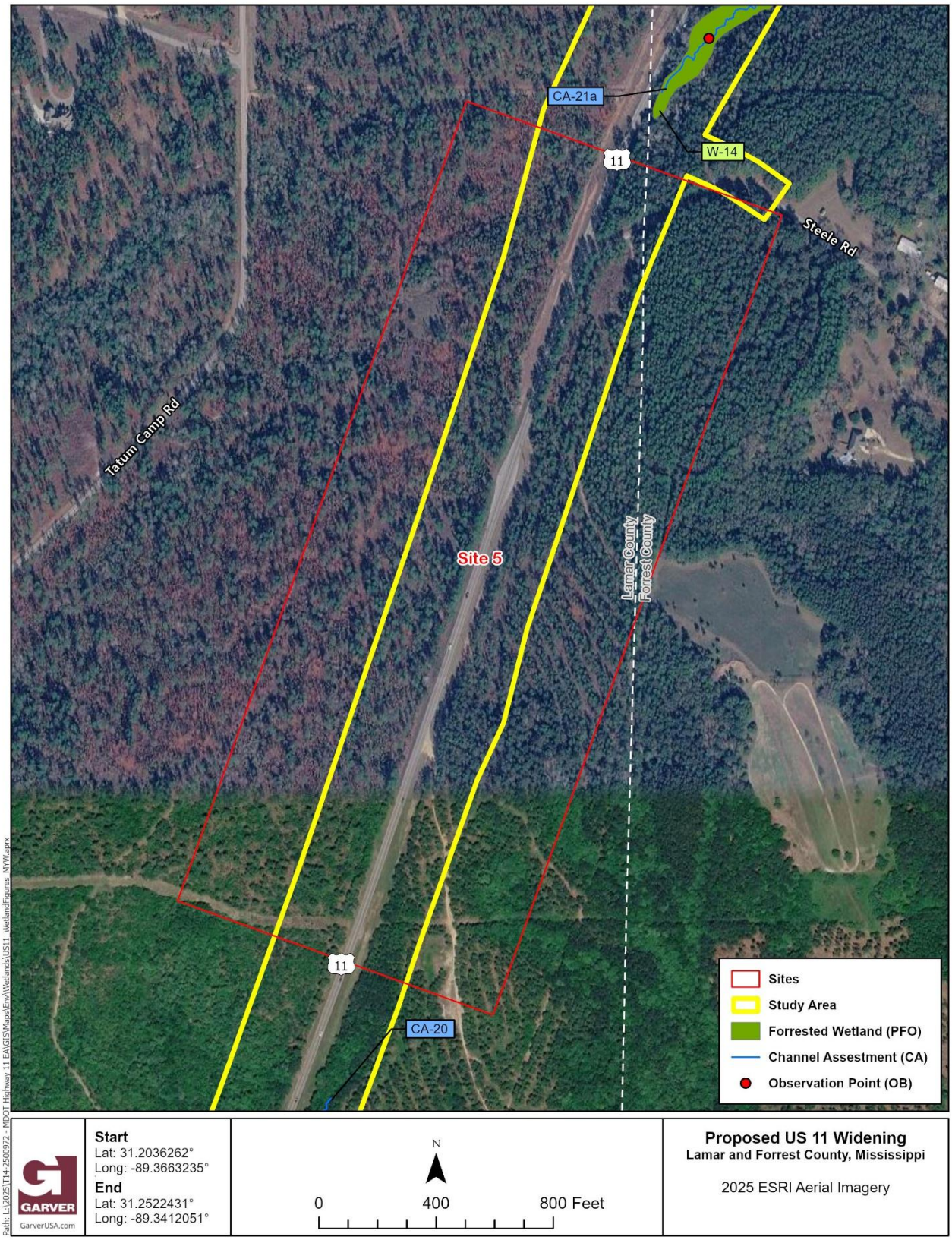
Depth (inches): _____

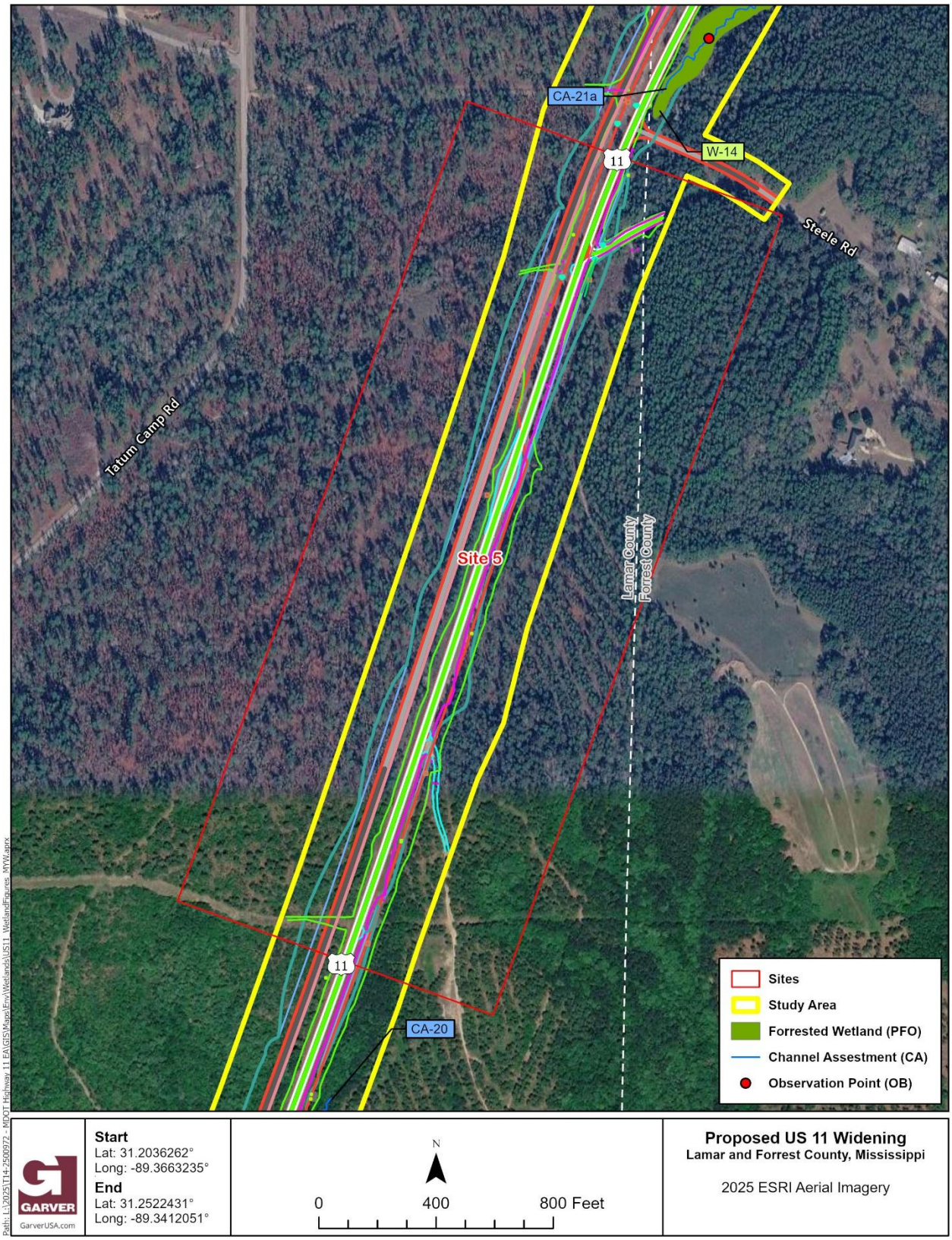
Hydric Soil Present? **Yes** ____ **No** X

Remarks:
Site does not meet hydric soil criteria.

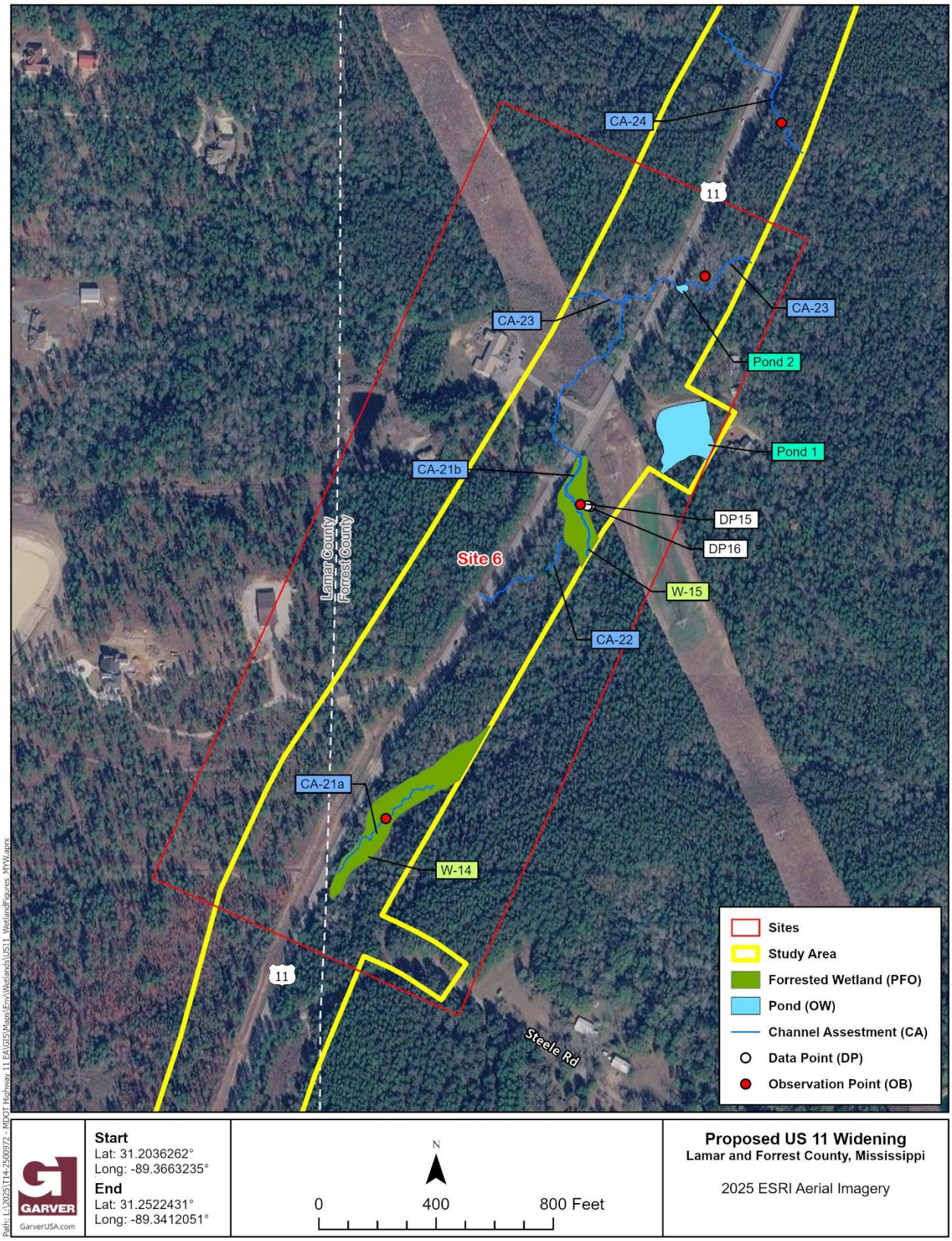
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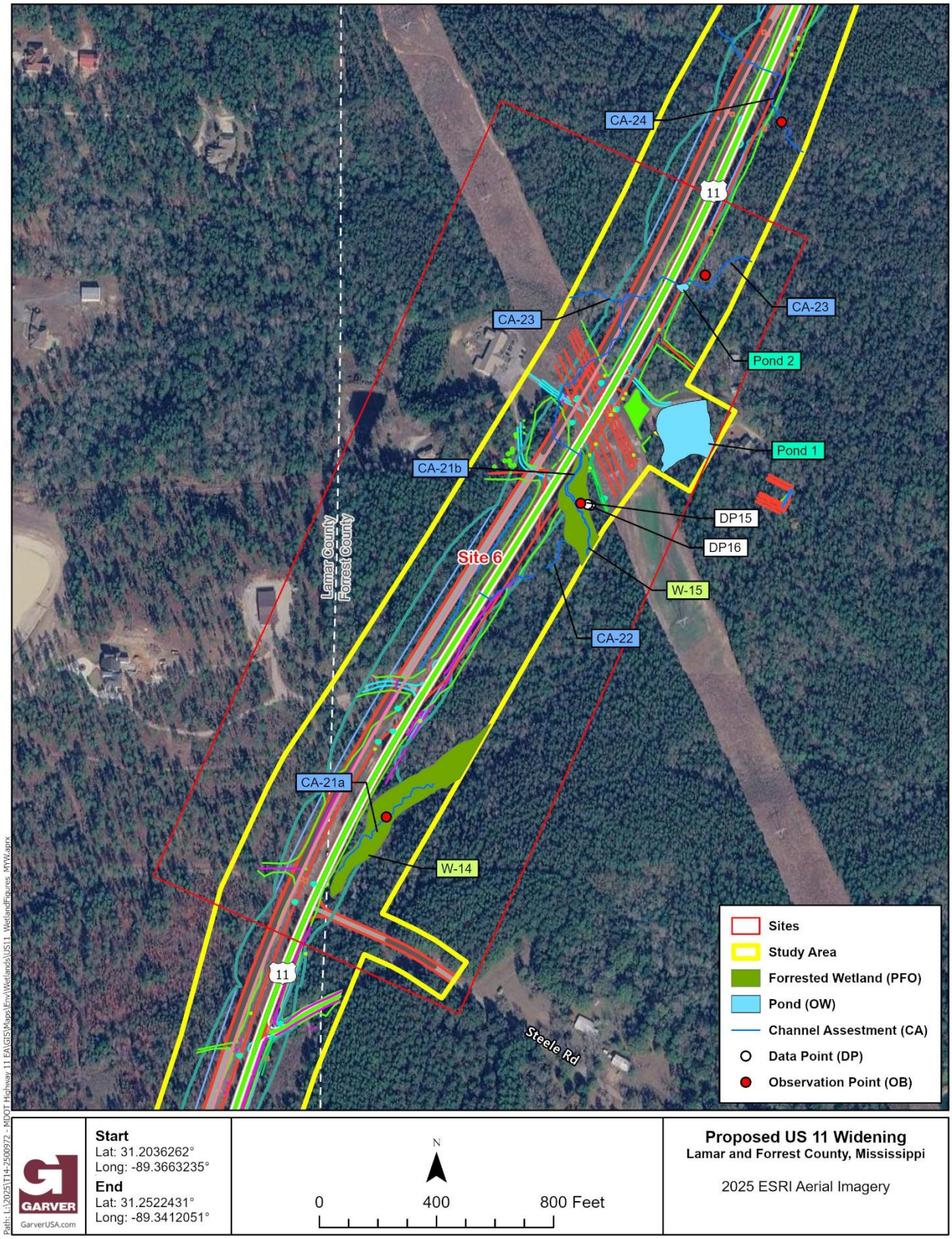
Site 5


CA-21a
W-14
11
Steele Rd
Tatum Camp Rd
Site 5
Lamar County
Forrest County
11
CA-20
Sites
Study Area
Forrested Wetland (PFO)
Channel Assestment (CA)
Observation Point (OB)
Start
Lat: 31.2036262°
Long: -89.3663235°
End
Lat: 31.2522431°
Long: -89.3412051°
GARVER
GarverUSA.com
N
0
400
800 Feet
Proposed US 11 Widening
Lamar and Forrest County, Mississippi
2025 ESRI Aerial Imagery
Path: L:\2025\T14-2500972 - MDOT Highway 11 EA\GIS\Maps\Env\Wetlands\US11_WetlandFigures_MYW.aprx


CA-21a
W-14
11
Steele Rd
Tatum Camp Rd
Site 5
Lamar County
Forrest County
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CA-20
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Lamar and Forrest County, Mississippi
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Path: L:\2025\T14-2500972 - MDOT Highway 11 EA\GIS\Maps\Env\Wetlands\US11_WetlandFigures_MYW.aprx

Site 6


CA-24
11
CA-23
CA-23
Pond 2
Pond 1
CA-21b
DP15
DP16
Site 6
Lamar County
Forrest County
W-15
CA-22
CA-21a
W-14
11
Steele Rd
Sites
Study Area
Forrested Wetland (PFO)
Pond (OW)
Channel Assestment (CA)
Data Point (DP)
Observation Point (OB)
Start
Lat: 31.2036262°
Long: -89.3663235°
End
Lat: 31.2522431°
Long: -89.3412051°
GARVER
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Lamar and Forrest County, Mississippi
2025 ESRI Aerial Imagery
Path: I:\2025\T14-2500972 - MDOT Highway 11 EA\GIS\Maps\Env\Wetlands\US11_WetlandFigures_MYW.aprx


CA-24
11
CA-23
CA-23
Pond 2
Pond 1
CA-21b
DP15
DP16
Site 6
Lamar County
Forrest County
W-15
CA-22
CA-21a
W-14
11
Steele Rd
Sites
Study Area
Forrested Wetland (PFO)
Pond (OW)
Channel Assestment (CA)
Data Point (DP)
Observation Point (OB)
Start
Lat: 31.2036262°
Long: -89.3663235°
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GARVER
GarverUSA.com
N
0
400
800 Feet
Proposed US 11 Widening
Lamar and Forrest County, Mississippi
2025 ESRI Aerial Imagery
Path: L:\2025\T14-2500972 - MDOT Highway 11 EA\GIS\Maps\Env\Wetlands\US11_WetlandFigures_MYW.aprx

CA-21a	
Ephemeral Stream	
	
Description	CA-21a. View is upgradient to the west-northwest.
CA-21a	
Ephemeral Stream	
	
Description	CA-21a. View is downgradient to the east-southeast.

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

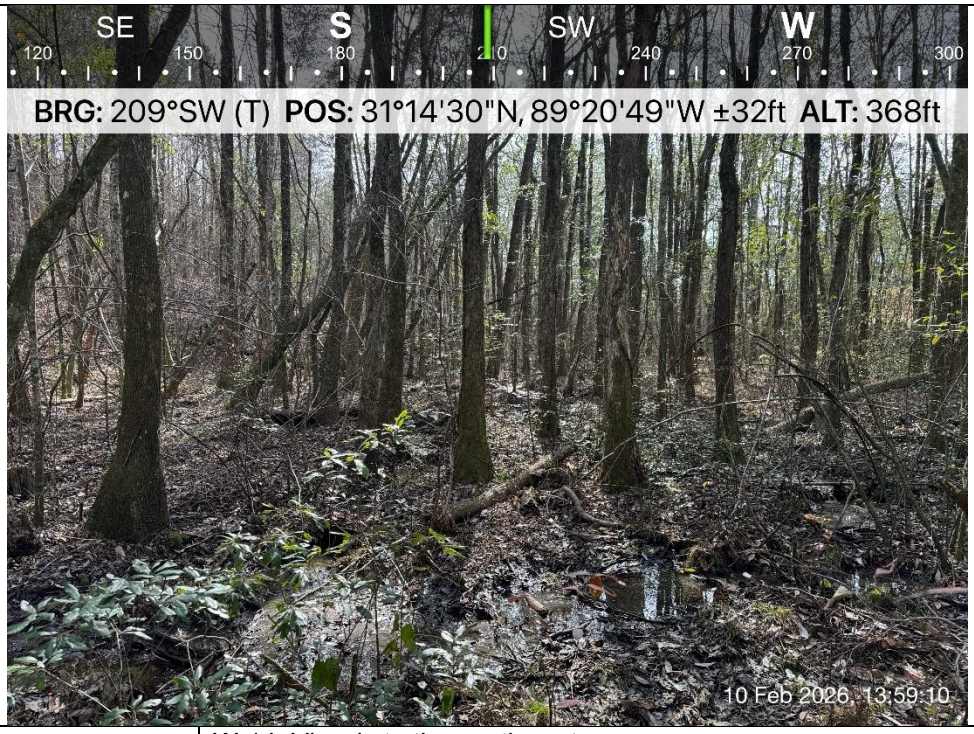
Project: US 11 Improvements	**City/County/State:** Forrest County, Mississippi	
Investigator(s): Wilson Harper	**Lat:** 31.240875 **Long:** -89.347810	**Sample Location ID:** CA-21a
Applicant/Owner: Mississippi Department of Transportation	**Date:** 2/10/2026	
Reason for Survey: Wetland Delineation		
River Basin/HUC Number: 03170007 **Size of Watershed:** 811,067 acres **Size of Drainage Area:** 17 acres	**Tributary Name (if known):** N/A **Nearest TNW:** Pascagoula River	

TRIBUTARY CHARACTERIZATION	**Tributary subsystem:** ☑ Ephemeral ☐ Intermittent ☐ Perennial **Tributary flows directly into a TNW?** **Explain:** No **Distance to nearest TNW:** River Miles: 78 Aerial Miles: 58.3 **Describe flow route to TNW:** Unnamed tributary into Wetland 14, thence into unnamed tributary (CA23), thence into unnamed tributary, thence into unnamed tributary, thence into Black Tom Creek, thence into Black Creek, **Tributary is** (natural / artificial / manipulated): **Explain:** Natural
WEATHER CONDITIONS	**Current:** ☐ rain (steady rain) ☐ showers (intermittent) ☐ cloud cover_____ (%) ☑ clear/ sunny air temperature: 76 (°F) **Has there been heavy rain in the last 7 days?** No **Average Rainfall:** 0.0 (in.) **Comment:**
WATERSHED FEATURES	**Predominant surrounding landuse:** ☑ Forest ☐ Commercial ☑ Other (Explain): Transportation ☐ Field/Pasture ☐ Industrial ☐ Agricultural ☐ Residential

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

TRIBUTARY FEATURES	**Estimated reach length**: 539 (ft.) **Estimated channel width**: 1 (ft.) **Estimated channel depth**: 0.25 (ft.) **Channelized:** No **Dam present:** No **Estimated slope of banks**: vertical ☐ 2:1 ☐ 3:1 ☑ 4:1 ☐ greater ☐ **Substrate:** sand ☑ cobble ☐ silt ☑ gravel ☐
TRIBUTARY CONDITION	**Tributary has** (defined bed and banks / OHWM): **Explain:** OHWM. Begins to lose definition downstream and transitions to wetland (W14). **Bank stability** (highly eroded, sloughing banks, etc): **Explain:** Relatively stable **Riffle / Run / Pool complex:** No **Explain:** Not observed
FLOW CONDITIONS	**Tributary geometry** (relatively straight, meandering, other): **Explain:** Relatively straight **Current flow is** (discrete, confined, overland sheet flow, etc): **Explain:** None **Average flow events per year:** Unknow
VEGETATION	**Approximate width of riparian buffer:** 200 (ft.) **Dominant species present** (top bank / buffer): *Liquidambar styraciflua, Quercus nigra, Arundinaria tecta, Morella cerifera* **Aquatic vegetation present:** No **Comment:**

W-14	
Forested Wetland	
	
Description	W-14. View is to the southwest
OB Soil Check	
Hydric Soil	
	
Description	Hydric soil from an observation point in W-14.

CA-22	
Ephemeral Stream	
	
Description	CA-22. View is upgradient to the south-southwest.

CA-22	
Ephemeral Stream	
	
Description	CA-22 where it exits a culvert under US 11. View is downgradient to the north.

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

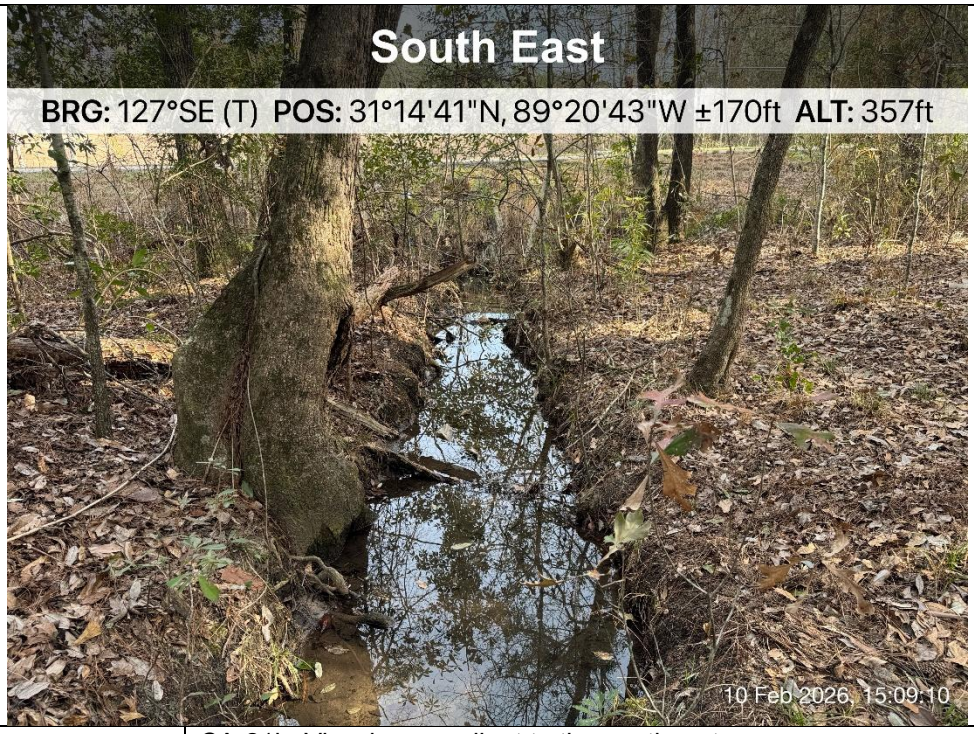
Project: US 11 Improvements	**City/County/State:** Forrest County, Mississippi	
Investigator(s): Wilson Harper	**Lat:** 31.243427 **Long:** -89.346159	**Sample Location ID:** CA-22
Applicant/Owner: Mississippi Department of Transportation	**Date:** 2/10/2026	
Reason for Survey: Wetland Delineation		
River Basin/HUC Number: 03170007 **Size of Watershed:** 811,067 acres **Size of Drainage Area:** 5 acres	**Tributary Name (if known):** N/A **Nearest TNW:** Pascagoula River	

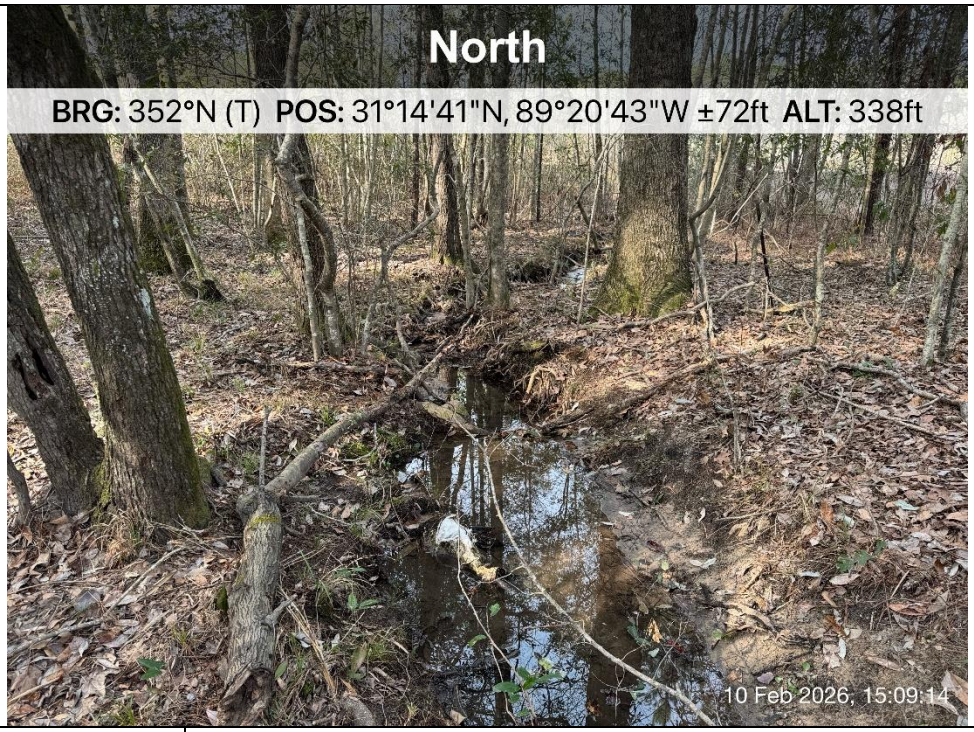
TRIBUTARY CHARACTERIZATION	**Tributary subsystem:** ☑ Ephemeral ☐ Intermittent ☐ Perennial **Tributary flows directly into a TNW?** **Explain:** No **Distance to nearest TNW:** River Miles: 77.9 Aerial Miles: 58.3 **Describe flow route to TNW:** Unnamed tributary into Wetland 15, thence into unnamed tributary (CA23), thence into unnamed tributary, thence into unnamed tributary, thence into Black Tom Creek, thence into Black Creek, **Tributary is** (natural / artificial / manipulated): **Explain:** Manipulated. Culvert under US 11.
WEATHER CONDITIONS	**Current:** ☐ rain (steady rain) ☐ showers (intermittent) ☐ cloud cover_____ (%) ☑ clear/ sunny air temperature: 77 (°F) **Has there been heavy rain in the last 7 days?** No **Average Rainfall:** 0.0 (in.) **Comment:**
WATERSHED FEATURES	**Predominant surrounding landuse:** ☑ Forest ☐ Commercial ☑ Other (Explain): Transportation ☐ Field/Pasture ☐ Industrial ☐ Agricultural ☐ Residential

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

TRIBUTARY FEATURES	**Estimated reach length**: 382 (ft.) **Estimated channel width**: 0.5 (ft.) **Estimated channel depth**: 0.25 (ft.) **Channelized:** No **Dam present:** No **Estimated slope of banks**: vertical ☐ 2:1 ☐ 3:1 ☐ 4:1 ☑ greater ☐ **Substrate:** sand ☑ cobble ☐ silt ☑ gravel ☐
TRIBUTARY CONDITION	**Tributary has** (defined bed and banks / OHWM): **Explain:** OHWM. Begins to lose definition downstream and transitions to wetland (W15). **Bank stability** (highly eroded, sloughing banks, etc): **Explain:** Relatively stable **Riffle / Run / Pool complex:** No **Explain:** Not observed
FLOW CONDITIONS	**Tributary geometry** (relatively straight, meandering, other): **Explain:** Relatively straight **Current flow is** (discrete, confined, overland sheet flow, etc): **Explain:** None **Average flow events per year:** Unknow
VEGETATION	**Approximate width of riparian buffer:** 200 (ft.) **Dominant species present** (top bank / buffer): *Magnolia virginiana, Quercus nigra, Arundinaria tecta, Morella cerifera, Ligustrum sinense* **Aquatic vegetation present:** No **Comment:**

CA-21b	
Intermittent Stream	
	
Description	CA-21b. View is upgradient to the southeast.

CA-21b	
Intermittent Stream	
	
Description	CA-21b. View is downgradient to the north.

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

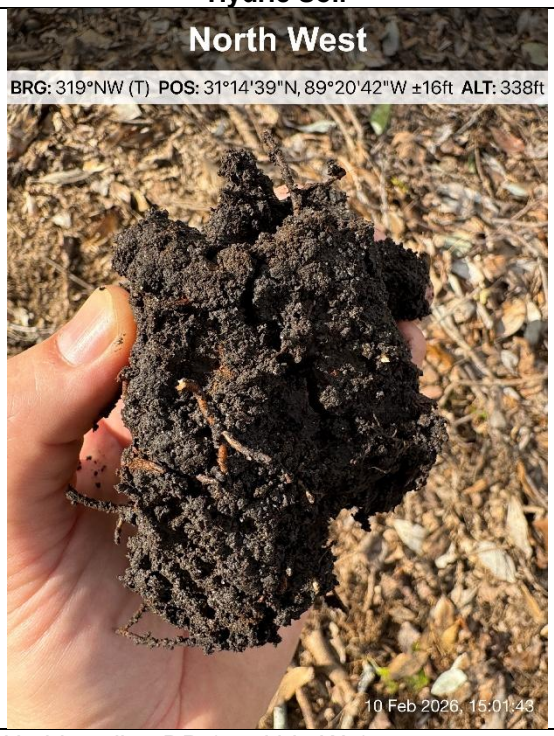
Project: US 11 Improvements	**City/County/State:** Forrest County, Mississippi	
Investigator(s): Wilson Harper	**Lat:** 31.245284 **Long:** -89.345435	**Sample Location ID:** CA-21b
Applicant/Owner: Mississippi Department of Transportation	**Date:** 2/10/2026	
Reason for Survey: Wetland Delineation		
River Basin/HUC Number: 03170007 **Size of Watershed:** 811,067 acres **Size of Drainage Area:** 70 acres	**Tributary Name (if known):** N/A **Nearest TNW:** Pascagoula River	

TRIBUTARY CHARACTERIZATION	**Tributary subsystem:** ☐ Ephemeral ☑ Intermittent ☐ Perennial **Tributary flows directly into a TNW?** **Explain:** No **Distance to nearest TNW:** River Miles: 77.9 Aerial Miles: 58.3 **Describe flow route to TNW:** Unnamed tributary into unnamed tributary (CA23), thence into unnamed tributary, thence into Black Tom Creek, thence into Black Creek, thence into Big Black Creek, thence into Pascagoula River. **Tributary is** (natural / artificial / manipulated): **Explain:** Manipulated. Culvert under US 11 and driveway.
WEATHER CONDITIONS	**Current:** ☐ rain (steady rain) ☐ showers (intermittent) ☐ cloud cover_____ (%) ☑ clear/ sunny air temperature: 77 (°F) **Has there been heavy rain in the last 7 days?** No **Average Rainfall:** 0.0 (in.) **Comment:**
WATERSHED FEATURES	**Predominant surrounding landuse:** ☑ Forest ☐ Commercial ☑ Other (Explain): Transportation ☑ Field/Pasture ☐ Industrial ☐ Agricultural ☐ Residential

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

TRIBUTARY FEATURES	**Estimated reach length**: 1,146 (ft.) **Estimated channel width**: 2 (ft.) **Estimated channel depth**: 1 (ft.) **Channelized:** No **Dam present:** No **Estimated slope of banks**: vertical ☑ 2:1 ☐ 3:1 ☐ 4:1 ☐ greater ☐ **Substrate:** sand ☑ cobble ☐ silt ☑ gravel ☐
TRIBUTARY CONDITION	**Tributary has** (defined bed and banks / OHWM): **Explain:** Defined bed and banks **Bank stability** (highly eroded, sloughing banks, etc): **Explain:** Relatively stable **Riffle / Run / Pool complex:** Yes **Explain:** All observed
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:** Unknow
VEGETATION	**Approximate width of riparian buffer:** 100 (ft.) **Dominant species present** (top bank / buffer): *Magnolia virginiana, Quercus nigra, Arundinaria tecta, Morella cerifera, Ligustrum sinense* **Aquatic vegetation present:** No **Comment:**

W-15	
Forested Wetland	
	
Description	W-15. View is to the south.
DP 15	
Hydric Soil	
	
Description	Hydric soil at DP 15 within W-15.

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: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: US 11 Improvements City/County: Forrest County Sampling Date: 2/10/2026
Applicant/Owner: MDOT State: MS Sampling Point: DP 15
Investigator(s): Wilson Harper Section, Township, Range: S 13, T 3 N, R 14 W
Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 5
Subregion (LRR or MLRA): LRR P, MLRA 133C Lat: 31.244327 Long: -89.345106 Datum: WGS 84
Soil Map Unit Name: Heidel sandy loam, 12 to 30 percent slopes 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 X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?** **Yes** X **No** ____
Hydric Soil Present?	Yes X	No ____	
Wetland Hydrology Present?	Yes X	No ____	

Remarks:
Site is drier than normal according to the USACE Antecedent Precipitation Tool. Site meets all three criteria and is located within a wetland.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- X Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- X Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15) **(LRR U)**
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- X Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- X FAC-Neutral Test (D5)
- ___ 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? (includes capillary fringe)	Yes X	No ____	Depth (inches): 7

Wetland Hydrology Present? **Yes** X **No** ____

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

Remarks:
Site meets wetland hydrology criteria.

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VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP 15

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. *Magnolia virginiana*	50	Yes	FACW
2. *Liriodendron tulipifera*	10	No	FACU
3. *Liquidambar styraciflua*	10	No	FAC
4. *Quercus nigra*	10	No	FAC
5.			
6.			
7.			
8.			
	80	=Total Cover	
50% of total cover: 40		20% of total cover:	16
Sapling/Shrub Stratum (Plot size: 30')			
1. *Magnolia virginiana*	10	Yes	FACW
2. *Quercus nigra*	10	Yes	FAC
3. *Morella cerifera*	10	Yes	FAC
4.			
5.			
6.			
7.			
8.			
	30	=Total Cover	
50% of total cover: 15		20% of total cover:	6
Herb Stratum (Plot size: 30')			
1. *Arundinaria tecta*	5	Yes	FACW
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	5	=Total Cover	
50% of total cover: 3		20% of total cover:	1
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
5.			
		=Total Cover	
50% of total cover:		20% of total cover:	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	65	x 2 =	130
FAC species	40	x 3 =	120
FACU species	10	x 4 =	40
UPL species	0	x 5 =	0
Column Totals:	115 (A)		290 (B)

Prevalence Index = B/A = 2.52

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0[1]

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody Vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (If observed, list morphological adaptations below.)
Site meets hydrophytic vegetation criteria.

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SOIL Sampling Point: DP 15

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10YR 2/1	92	7.5YR 5/8	8	C	M	Sandy	Sandy silt; Prominent redox concentrations

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Organic Bodies (A6) **(LRR P, T, U)**
- ___ 5 cm Mucky Mineral (A7) **(LRR P, T, U)**
- ___ Muck Presence (A8) **(LRR U)**
- ___ 1 cm Muck (A9) **(LRR P, T)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Coast Prairie Redox (A16) **(MLRA 150A)**
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1) **(LRR O, S)**
- ___ Sandy Gleyed Matrix (S4)
- X Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR P, S, T, U)**
- ___ Polyvalue Below Surface (S8) **(LRR S, T, U)**
- ___ Thin Dark Surface (S9) **(LRR S, T, U)**
- ___ Barrier Islands 1 cm Muck (S12) **(MLRA 153B, 153D)**
- ___ Loamy Mucky Mineral (F1) **(LRR O)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) **(LRR U)**
- ___ Depleted Ochric (F11) **(MLRA 151)**
- ___ Iron-Manganese Masses (F12) **(LRR O, P, T)**
- ___ Umbric Surface (F13) **(LRR P, T, U)**
- ___ Delta Ochric (F17) **(MLRA 151)**
- ___ Reduced Vertic (F18) **(MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149A)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 149A, 153C, 153D)**
- ___ Very Shallow Dark Surface (F22) **(MLRA 138, 152A in FL, 154)**

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) **(LRR O)**
- ___ 2 cm Muck (A10) **(LRR S)**
- ___ Coast Prairie Redox (A16) **(MLRA 149A)**
- ___ Reduced Vertic (F18) **(outside MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(LRR P, T)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 153B)**
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22) **(outside MLRA 138, 152A in FL, 154)**
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks:
Site meets hydric soil criteria.

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Pond 1	
Pond	
	
Description	Pond 1. View is to the southeast.
Pond 1	
Pond	
	
Description	Pond 1. View is to the northeast.

CA-23	
Perennial Stream	
	
Description	CA-23. View is upgradient to the west.

CA-23	
Perennial Stream	
	
Description	CA-23 where it enters a culvert under US 11. View is downgradient to the southeast.

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

Project: US 11 Improvements	**City/County/State:** Forrest County, Mississippi	
Investigator(s): Wilson Harper	**Lat:** 31.246305 **Long:** -89.345126	**Sample Location ID:** CA-23
Applicant/Owner: Mississippi Department of Transportation	**Date:** 2/10/2026	
Reason for Survey: Wetland Delineation		
River Basin/HUC Number: 03170007 **Size of Watershed:** 811,067 acres **Size of Drainage Area:** 90 acres	**Tributary Name (if known):** N/A **Nearest TNW:** Pascagoula River	

TRIBUTARY CHARACTERIZATION	**Tributary subsystem:** ☐ Ephemeral ☐ Intermittent ☑ Perennial **Tributary flows directly into a TNW?** **Explain:** No **Distance to nearest TNW:** River Miles: 77.7 Aerial Miles: 58.4 **Describe flow route to TNW:** Unnamed tributary into unnamed tributary, thence into Black Tom Creek, thence into Black Creek, thence into Big Black Creek, thence into Pascagoula River. **Tributary is** (natural / artificial / manipulated): **Explain:** Manipulated. Culvert under US 11.
WEATHER CONDITIONS	**Current:** ☐ rain (steady rain) ☐ showers (intermittent) ☐ cloud cover_____ (%) ☑ clear/ sunny air temperature: 78 (°F) **Has there been heavy rain in the last 7 days?** No **Average Rainfall:** 0.0 (in.) **Comment:**
WATERSHED FEATURES	**Predominant surrounding landuse:** ☑ Forest ☐ Commercial ☑ Other (Explain): Transportation ☑ Field/Pasture ☐ Industrial ☐ Agricultural ☐ Residential

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

TRIBUTARY FEATURES	**Estimated reach length**: 720 (ft.) **Estimated channel width**: 3 (ft.) **Estimated channel depth**: 1.5 (ft.) **Channelized:** No **Dam present:** No **Estimated slope of banks**: vertical ☑ 2:1 ☐ 3:1 ☐ 4:1 ☐ greater ☐ **Substrate:** sand ☑ cobble ☐ silt ☑ gravel ☐
TRIBUTARY CONDITION	**Tributary has** (defined bed and banks / OHWM): **Explain:** Defined bed and banks **Bank stability** (highly eroded, sloughing banks, etc): **Explain:** Relatively stable **Riffle / Run / Pool complex:** Yes **Explain:** All observed
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:** 365
VEGETATION	**Approximate width of riparian buffer:** 200 (ft.) **Dominant species present** (top bank / buffer): *Magnolia virginiana, Quercus nigra, Arundinaria tecta, Morella cerifera, Ligustrum sinense* **Aquatic vegetation present:** Yes **Comment:** Aquatic fauna also observed

Pond 2	
Pond	
	
Description	Pond 2. View is to the east.
Pond 2	
Pond	
	
Description	Pond 2 where CA-23 exits the culvert under US 11. View is upgradient to the west-southwest.

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: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: US 11 Improvements City/County: Forrest County Sampling Date: 2/10/2026
Applicant/Owner: MDOT State: MS Sampling Point: DP 16
Investigator(s): Wilson Harper Section, Township, Range: S 13, T 3 N, R 14 W
Landform (hillside, terrace, etc.): Hillside Local relief (concave, convex, none): Convex Slope (%): 5
Subregion (LRR or MLRA): LRR P, MLRA 133C Lat: 31.244320 Long: -89.345075 Datum: WGS 84
Soil Map Unit Name: Heidel sandy loam, 12 to 30 percent slopes 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 X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes ____	No X	

Remarks:
Site is drier than normal according to the USACE Antecedent Precipitation Tool. Site does not meet all three criteria and is not located within a wetland.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15) **(LRR U)**
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary 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): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

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

Remarks:
Site does not meet wetland hydrology criteria.

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VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP 16

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. *Quercus nigra*	20	Yes	FAC
2. *Liriodendron tulipifera*	10	Yes	FACU
3. *Quercus falcata*	10	Yes	FACU
4. *Magnolia virginiana*	10	Yes	FACW
5. *Pinus taeda*	5	No	FAC
6.			
7.			
8.			
	55	=Total Cover	
50% of total cover: 28		20% of total cover:	11
Sapling/Shrub Stratum (Plot size: 30')			
1. *Ligustrum sinense*	10	Yes	FAC
2. *Quercus nigra*	10	Yes	FAC
3. *Morella cerifera*	10	Yes	FAC
4.			
5.			
6.			
7.			
8.			
	30	=Total Cover	
50% of total cover: 15		20% of total cover:	6
Herb Stratum (Plot size: 30')			
1. *Arundinaria tecta*	5	Yes	FACW
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	5	=Total Cover	
50% of total cover: 3		20% of total cover:	1
Woody Vine Stratum (Plot size: 30')			
1. *Smilax rotundifolia*	10	Yes	FAC
2.			
3.			
4.			
5.			
	10	=Total Cover	
50% of total cover: 5		20% of total cover:	2

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 7 (A)

Total Number of Dominant Species Across All Strata: 9 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 77.8% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	15	x 2 =	30
FAC species	65	x 3 =	195
FACU species	20	x 4 =	80
UPL species	0	x 5 =	0
Column Totals:	100 (A)		305 (B)

Prevalence Index = B/A = 3.05

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 be present, unless disturbed or problematic.

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody Vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (If observed, list morphological adaptations below.)
Site meets hydrophytic vegetation criteria.

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SOIL Sampling Point: DP 16

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10YR 3/1	70					Sandy	Sandy silt

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Organic Bodies (A6) **(LRR P, T, U)**
- ___ 5 cm Mucky Mineral (A7) **(LRR P, T, U)**
- ___ Muck Presence (A8) **(LRR U)**
- ___ 1 cm Muck (A9) **(LRR P, T)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Coast Prairie Redox (A16) **(MLRA 150A)**
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1) **(LRR O, S)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR P, S, T, U)**
- ___ Polyvalue Below Surface (S8) **(LRR S, T, U)**
- ___ Thin Dark Surface (S9) **(LRR S, T, U)**
- ___ Barrier Islands 1 cm Muck (S12) **(MLRA 153B, 153D)**
- ___ Loamy Mucky Mineral (F1) **(LRR O)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) **(LRR U)**
- ___ Depleted Ochric (F11) **(MLRA 151)**
- ___ Iron-Manganese Masses (F12) **(LRR O, P, T)**
- ___ Umbric Surface (F13) **(LRR P, T, U)**
- ___ Delta Ochric (F17) **(MLRA 151)**
- ___ Reduced Vertic (F18) **(MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149A)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 149A, 153C, 153D)**
- ___ Very Shallow Dark Surface (F22) **(MLRA 138, 152A in FL, 154)**

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) **(LRR O)**
- ___ 2 cm Muck (A10) **(LRR S)**
- ___ Coast Prairie Redox (A16) **(MLRA 149A)**
- ___ Reduced Vertic (F18) **(outside MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(LRR P, T)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 153B)**
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22) **(outside MLRA 138, 152A in FL, 154)**
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

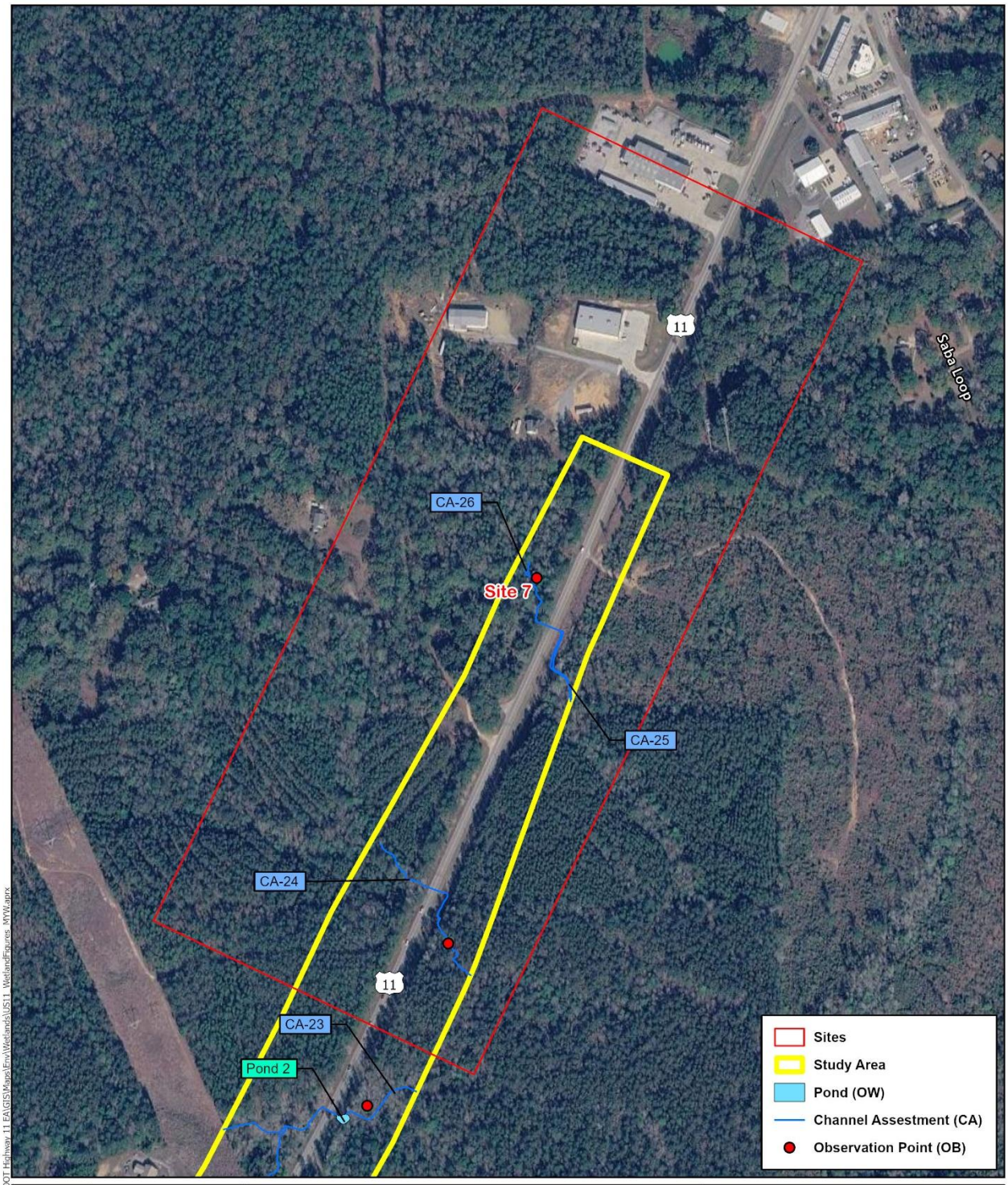
Hydric Soil Present? **Yes** ___ **No** X

Remarks:

Second soil matrix color 0-12": 10YR 5/4 (30%). Site does not meet hydric soil criteria.

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Site 7



Path: L:\2025\T14-2500972 - MDOT Highway 11 EA\GIS\Maps\Env\Wetlands\US11_WetlandFigures_MYW.aprx

GARVER
GarverUSA.com

Start
Lat: 31.2036262°
Long: -89.3663235°

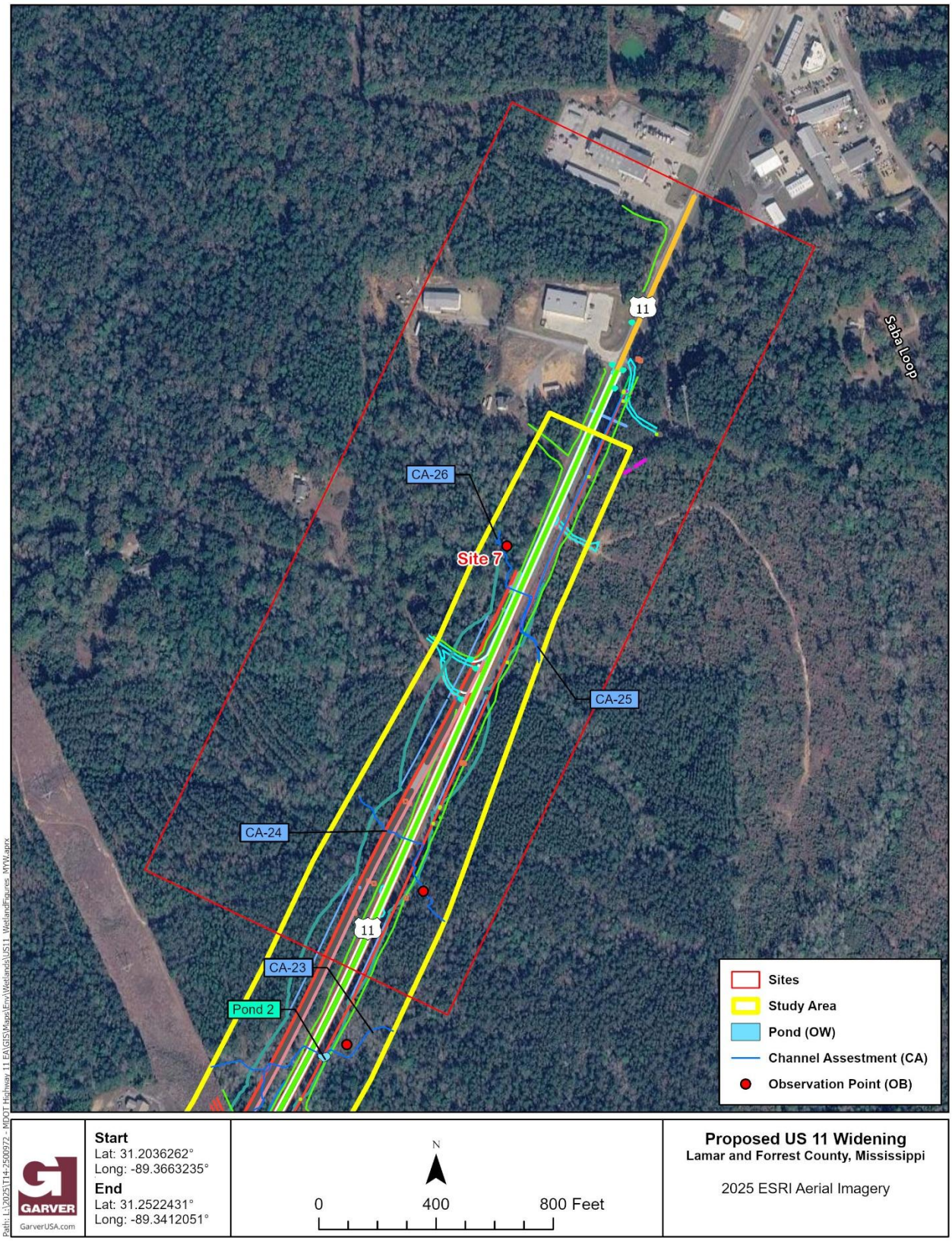
End
Lat: 31.2522431°
Long: -89.3412051°

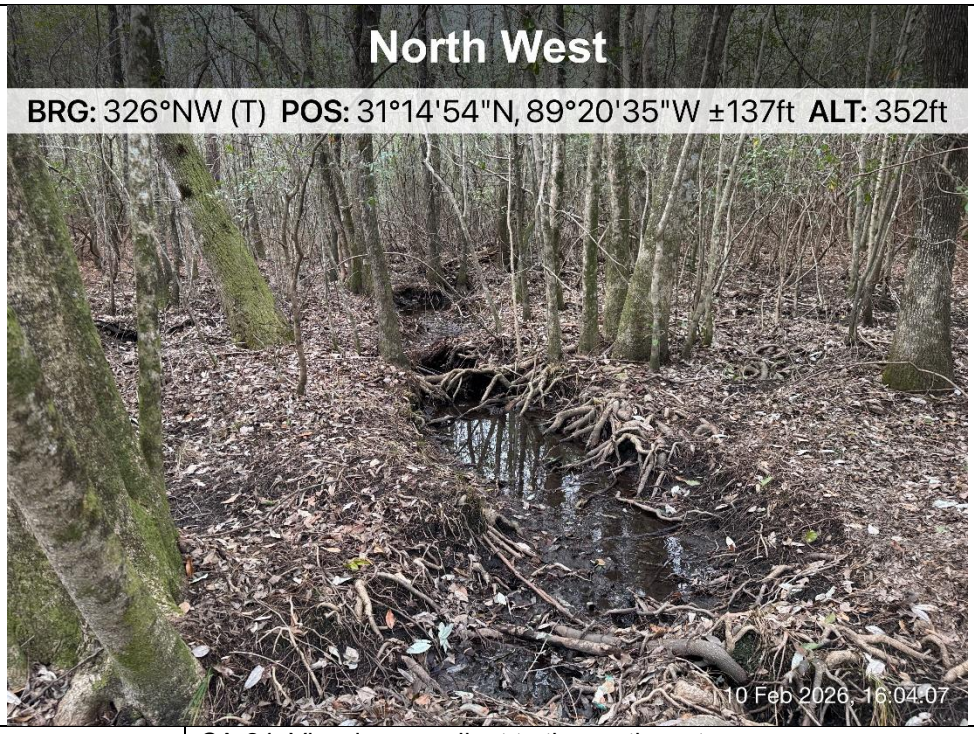
N

0 400 800 Feet

Proposed US 11 Widening
Lamar and Forrest County, Mississippi

2025 ESRI Aerial Imagery


11
Saba Loop
CA-26
Site 7
CA-25
CA-24
11
CA-23
Pond 2
Sites
Study Area
Pond (OW)
Channel Assessment (CA)
Observation Point (OB)
Start
Lat: 31.2036262°
Long: -89.3663235°
End
Lat: 31.2522431°
Long: -89.3412051°
N
0
400
800 Feet
Proposed US 11 Widening
Lamar and Forrest County, Mississippi
2025 ESRI Aerial Imagery
GARVER
GarverUSA.com

CA-24	
Intermittent Stream	
	
Description	CA-24. View is upgradient to the northwest.

CA-24	
Intermittent Stream	
	
Description	CA-24. View is downgradient to the southeast.

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

Project: US 11 Improvements	**City/County/State:** Forrest County, Mississippi	
Investigator(s): Wilson Harper	**Lat:** 31.248798 **Long:** -89.343707	**Sample Location ID:** CA-24
Applicant/Owner: Mississippi Department of Transportation	**Date:** 2/10/2026	
Reason for Survey: Wetland Delineation		
River Basin/HUC Number: 03170007 **Size of Watershed:** 811,067 acres **Size of Drainage Area:** 38 acres	**Tributary Name (if known):** N/A **Nearest TNW:** Pascagoula River	

TRIBUTARY CHARACTERIZATION	**Tributary subsystem:** ☐ Ephemeral ☑ Intermittent ☐ Perennial **Tributary flows directly into a TNW?** **Explain:** No **Distance to nearest TNW:** River Miles: 77.7 Aerial Miles: 58.4 **Describe flow route to TNW:** Unnamed tributary into unnamed tributary, thence into Black Tom Creek, thence into Black Creek, thence into Big Black Creek, thence into Pascagoula River. **Tributary is** (natural / artificial / manipulated): **Explain:** Manipulated. Culvert under US 11.
WEATHER CONDITIONS	**Current:** ☐ rain (steady rain) ☐ showers (intermittent) ☐ cloud cover_____ (%) ☑ clear/ sunny air temperature: 77 (°F) **Has there been heavy rain in the last 7 days?** No **Average Rainfall:** 0.0 (in.) **Comment:**
WATERSHED FEATURES	**Predominant surrounding landuse:** ☑ Forest ☐ Commercial ☑ Other (Explain): Transportation ☐ Field/Pasture ☐ Industrial ☐ Agricultural ☐ Residential

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

TRIBUTARY FEATURES	**Estimated reach length**: 634 (ft.) **Estimated channel width**: 3 (ft.) **Estimated channel depth**: 1.5 (ft.) **Channelized:** No **Dam present:** No **Estimated slope of banks**: vertical [✓] 2:1 [ ] 3:1 [ ] 4:1 [ ] greater [ ] **Substrate:** sand [✓] cobble [ ] silt [✓] gravel [ ]
TRIBUTARY CONDITION	**Tributary has** (defined bed and banks / OHWM): **Explain:** Defined bed and banks **Bank stability** (highly eroded, sloughing banks, etc): **Explain:** Relatively stable **Riffle / Run / Pool complex:** Yes **Explain:** All observed
FLOW CONDITIONS	**Tributary geometry** (relatively straight, meandering, other): **Explain:** Relatively straight **Current flow is** (discrete, confined, overland sheet flow, etc): **Explain:** Confined **Average flow events per year:** Unknow
VEGETATION	**Approximate width of riparian buffer:** 500 (ft.) **Dominant species present** (top bank / buffer): *Magnolia virginiana, Quercus nigra, Pinus taeda, Liriodendron tulipifera, Arundinaria tecta, Morella cerifera, Ligustrum sinense* **Aquatic vegetation present:** No **Comment:**

CA-25	
Intermittent Stream	
	
Description	CA-25. View is upgradient to the northwest.

CA-25	
Intermittent Stream	
	
Description	CA-25. View is downgradient to the southeast.

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

Project: US 11 Improvements	**City/County/State:** Forrest County, Mississippi	
Investigator(s): Wilson Harper	**Lat:** 31.251278 **Long:** -89.342178	**Sample Location ID:** CA-25
Applicant/Owner: Mississippi Department of Transportation	**Date:** 2/10/2026	
Reason for Survey: Wetland Delineation		
River Basin/HUC Number: 03170007 **Size of Watershed:** 811,067 acres **Size of Drainage Area:** 20 acres	**Tributary Name (if known):** N/A **Nearest TNW:** Pascagoula River	

TRIBUTARY CHARACTERIZATION	**Tributary subsystem:** ☐ Ephemeral ☑ Intermittent ☐ Perennial **Tributary flows directly into a TNW?** **Explain:** No **Distance to nearest TNW:** River Miles: 78.1 Aerial Miles: 58.6 **Describe flow route to TNW:** Unnamed tributary into unnamed tributary, thence into Black Tom Creek, thence into Black Creek, thence into Big Black Creek, thence into Pascagoula River. **Tributary is** (natural / artificial / manipulated): **Explain:** Manipulated. Culvert under US 11.
WEATHER CONDITIONS	**Current:** ☐ rain (steady rain) ☐ showers (intermittent) ☐ cloud cover_____ (%) ☑ clear/ sunny air temperature: 77 (ºF) **Has there been heavy rain in the last 7 days?** No **Average Rainfall:** 0.0 (in.) **Comment:**
WATERSHED FEATURES	**Predominant surrounding landuse:** ☑ Forest ☐ Commercial ☑ Other (Explain): Transportation ☐ Field/Pasture ☐ Industrial ☐ Agricultural ☐ Residential

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

TRIBUTARY FEATURES	**Estimated reach length**: 566 (ft.) **Estimated channel width**: 1.5 (ft.) **Estimated channel depth**: 1 (ft.) **Channelized:** No **Dam present:** No **Estimated slope of banks**: vertical ☐ 2:1 ☑ 3:1 ☐ 4:1 ☐ greater ☐ **Substrate:** sand ☑ cobble ☐ silt ☑ gravel ☐
TRIBUTARY CONDITION	**Tributary has** (defined bed and banks / OHWM): **Explain:** Defined bed and banks **Bank stability** (highly eroded, sloughing banks, etc): **Explain:** Relatively stable **Riffle / Run / Pool complex:** Yes **Explain:** All observed
FLOW CONDITIONS	**Tributary geometry** (relatively straight, meandering, other): **Explain:** Relatively straight **Current flow is** (discrete, confined, overland sheet flow, etc): **Explain:** Confined **Average flow events per year:** Unknow
VEGETATION	**Approximate width of riparian buffer:** 0 - 300 (ft.) **Dominant species present** (top bank / buffer): *Magnolia virginiana, Quercus nigra, Liriodendron tulipifera, Arundinaria tecta, Morella cerifera, Ligustrum sinense* **Aquatic vegetation present:** No **Comment:**

CA-26	
Ephemeral Stream	
NO PHOTO TAKEN	
Description	

CA-26	
Ephemeral Stream	
NO PHOTO TAKEN	
Description	

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

Project: US 11 Improvements	**City/County/State:** Forrest County, Mississippi	
Investigator(s): Wilson Harper	**Lat:** 31.251207 **Long:** -89.342224	**Sample Location ID:** CA-26
Applicant/Owner: Mississippi Department of Transportation	**Date:** 2/10/2026	
Reason for Survey: Wetland Delineation		
River Basin/HUC Number: 03170007 **Size of Watershed:** 811,067 acres **Size of Drainage Area:** 1.5 acres	**Tributary Name (if known):** N/A **Nearest TNW:** Pascagoula River	

TRIBUTARY CHARACTERIZATION	**Tributary subsystem:** ☑ Ephemeral ☐ Intermittent ☐ Perennial **Tributary flows directly into a TNW?** **Explain:** No **Distance to nearest TNW:** River Miles: 78.3 Aerial Miles: 58.7 **Describe flow route to TNW:** Unnamed tributary into unnamed tributary (CA25), thence into unnamed tributary, thence into Black Tom Creek, thence into Black Creek, thence into Big Black Creek, thence into Pascagoula River. **Tributary is** (natural / artificial / manipulated): **Explain:** Natural
WEATHER CONDITIONS	**Current:** ☐ rain (steady rain) ☐ showers (intermittent) ☐ cloud cover_____ (%) ☑ clear/ sunny air temperature: 77 (ºF) **Has there been heavy rain in the last 7 days?** No **Average Rainfall:** 0.0 (in.) **Comment:**
WATERSHED FEATURES	**Predominant surrounding landuse:** ☑ Forest ☐ Commercial ☐ Other (Explain): ☐ Field/Pasture ☐ Industrial ☐ Agricultural ☐ Residential

FIELD DATA SHEET

OTHER WATERS OF THE U.S.

TRIBUTARY FEATURES	**Estimated reach length**: 36 (ft.) **Estimated channel width**: 1 (ft.) **Estimated channel depth**: 0.5 (ft.) **Channelized:** No **Dam present:** No **Estimated slope of banks**: vertical ☑ 2:1 ☐ 3:1 ☐ 4:1 ☐ greater ☐ **Substrate:** sand ☐ cobble ☐ silt ☑ gravel ☐
TRIBUTARY CONDITION	**Tributary has** (defined bed and banks / OHWM): **Explain:** OHWM **Bank stability** (highly eroded, sloughing banks, etc): **Explain:** Relatively stable **Riffle / Run / Pool complex:** No **Explain:** Not observed
FLOW CONDITIONS	**Tributary geometry** (relatively straight, meandering, other): **Explain:** Relatively straight **Current flow is** (discrete, confined, overland sheet flow, etc): **Explain:** None **Average flow events per year:** Unknow
VEGETATION	**Approximate width of riparian buffer:** 70 - 500 (ft.) **Dominant species present** (top bank / buffer): *Magnolia virginiana, Quercus nigra, Morella cerifera, Ligustrum sinense* **Aquatic vegetation present:** No **Comment:**

Appendix C — Background Information

USDA NRCS Web Soil Survey

USFWS National Wetland Inventory Map

USGS National Elevation Dataset

USDA National Land Cover Dataset

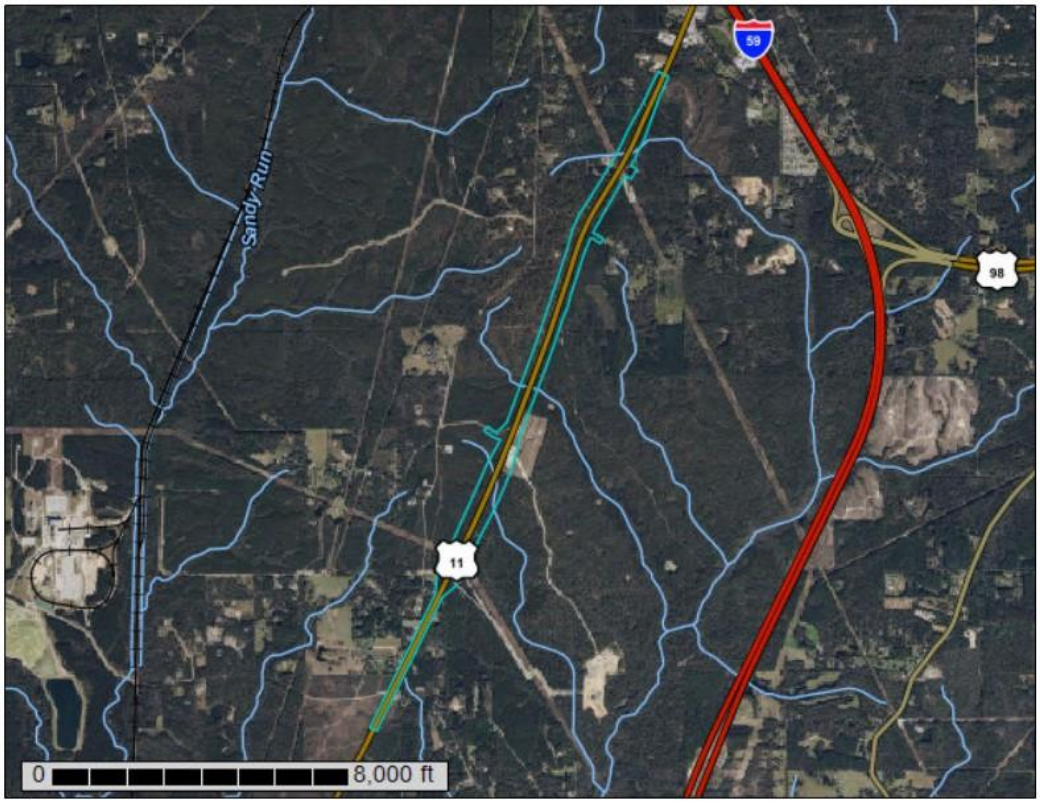
United States Department of Agriculture

NRCS

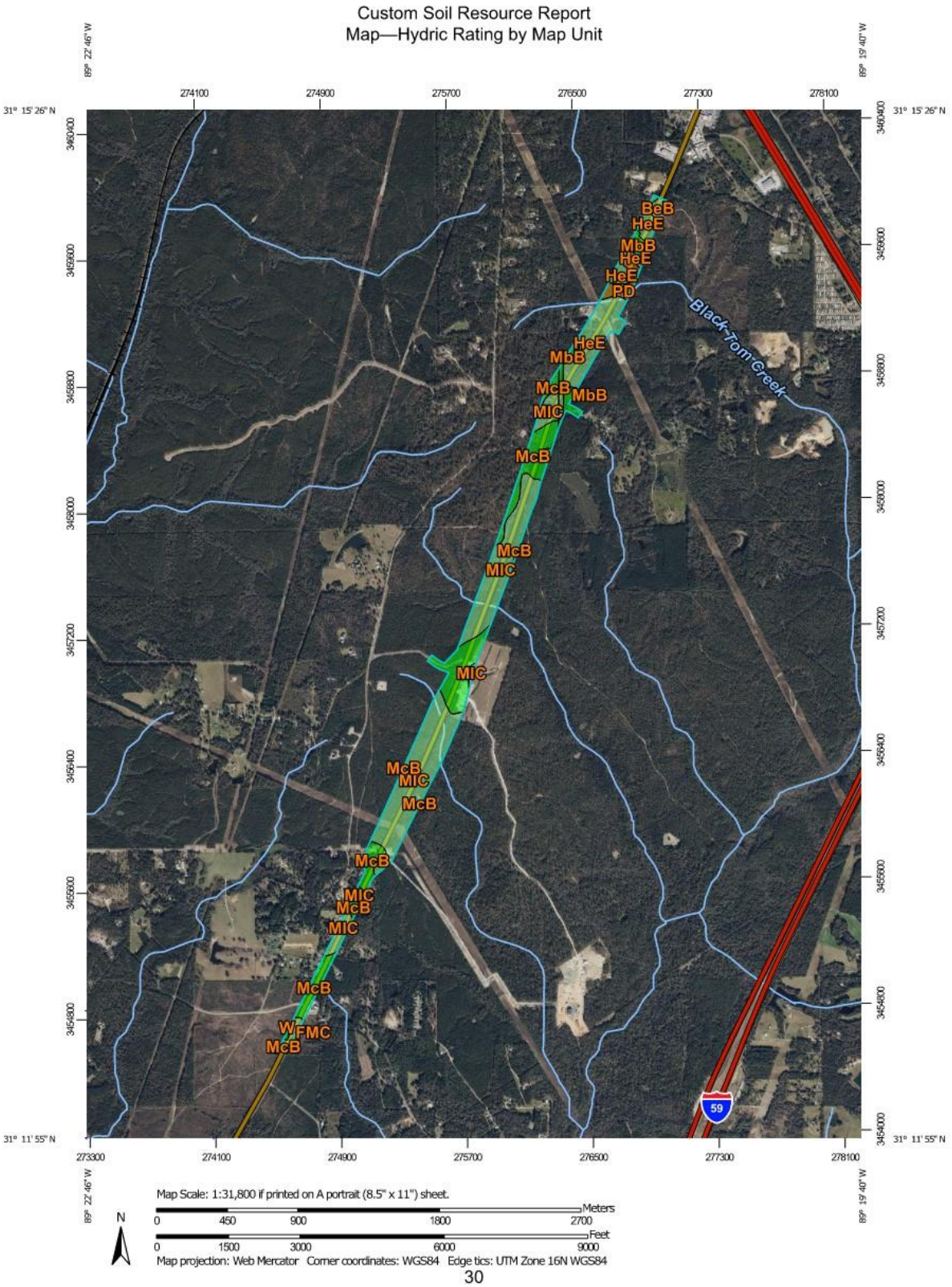
Natural Resources Conservation Service

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 Forrest County, Mississippi, and Lamar County, Mississippi



March 6, 2026


Custom Soil Resource Report
Map—Hydric Rating by Map Unit
89° 22' 46" W
89° 19' 40" W
31° 15' 26" N
31° 11' 55" N
274100
274900
275700
276500
277300
278100
273300
3460400
3459600
3458800
3458000
3457200
3456400
3455600
3454800
3454000
BeB
HeE
MbB
HeE
HeE
PD
HeE
MbB
McB
MbB
MIC
McB
McB
MIC
MIC
McB
MIC
McB
McB
MIC
McB
W
FMC
McB
Black Tom Creek
59
Map Scale: 1:31,800 if printed on A portrait (8.5" x 11") sheet.
N
Meters
0
450
900
1800
2700
Feet
0
1500
3000
6000
9000
Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84

30

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- Hydric (100%)
- Hydric (66 to 99%)
- Hydric (33 to 65%)
- Hydric (1 to 32%)
- Not Hydric (0%)
- Not rated or not available

Soil Rating Lines
- Hydric (100%)
- Hydric (66 to 99%)
- Hydric (33 to 65%)
- Hydric (1 to 32%)
- Not Hydric (0%)
- Not rated or not available

Soil Rating Points
- Hydric (100%)
- Hydric (66 to 99%)
- Hydric (33 to 65%)
- Hydric (1 to 32%)
- Not Hydric (0%)
- Not rated or not available

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Forrest County, Mississippi
Survey Area Data: Version 21, Sep 4, 2025

Soil Survey Area: Lamar County, Mississippi
Survey Area Data: Version 19, Sep 8, 2025

Your area of interest (AOI) includes more than one soil survey area. These survey areas may have been mapped at different scales, with a different land use in mind, at different times, or at different levels of detail. This may result in map unit symbols, soil properties, and interpretations that do not completely agree across soil survey area boundaries.

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 14, 2021—Nov 24, 2021

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background

Table—Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
BeB	Benndale fine sandy loam, 2 to 5 percent slopes	5	2.2	1.1%
HeE	Heidel sandy loam, 12 to 30 percent slopes	2	34.5	16.9%
MbB	McLaurin loamy sand, 2 to 5 percent slopes	0	8.5	4.2%
PD	Pamlico-Dorovan association (croatan-dorovan)	90	6.4	3.1%
Subtotals for Soil Survey Area			**51.7**	**25.3%**
Totals for Area of Interest			**204.2**	**100.0%**

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
FMC	Freestone-McLaurin-Susquehanna association, rolling (freest-mclaurin-susquehanna)	2	2.7	1.3%
McB	McLaurin fine sandy loam, 2 to 5 percent slopes	0	51.2	25.1%
MIC	McLaurin-Lucy association, rolling	5	98.3	48.1%
W	Water	0	0.3	0.1%
Subtotals for Soil Survey Area			**152.6**	**74.7%**
Totals for Area of Interest			**204.2**	**100.0%**

Rating Options—Hydric Rating by Map Unit

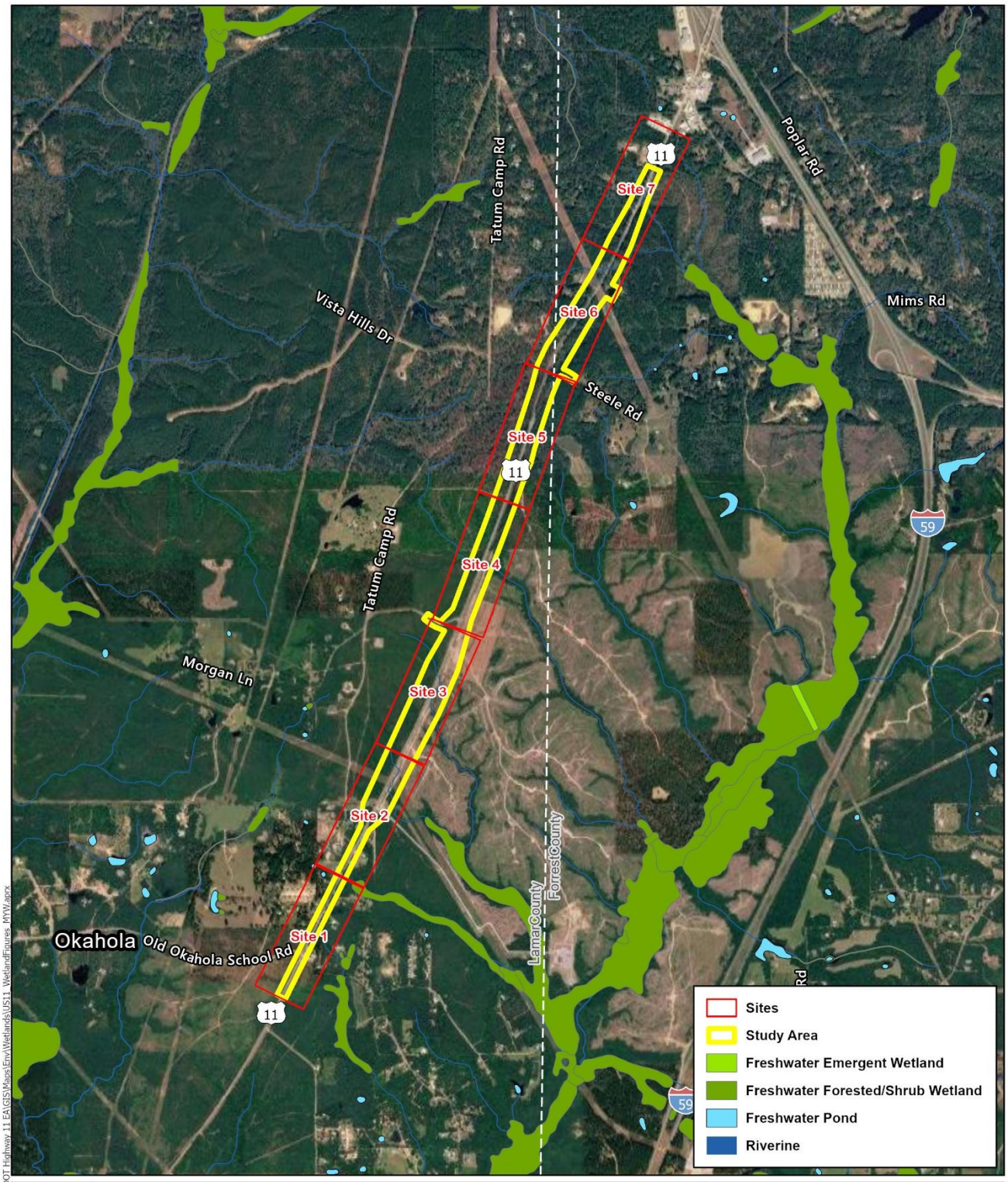
Aggregation Method: Percent Present

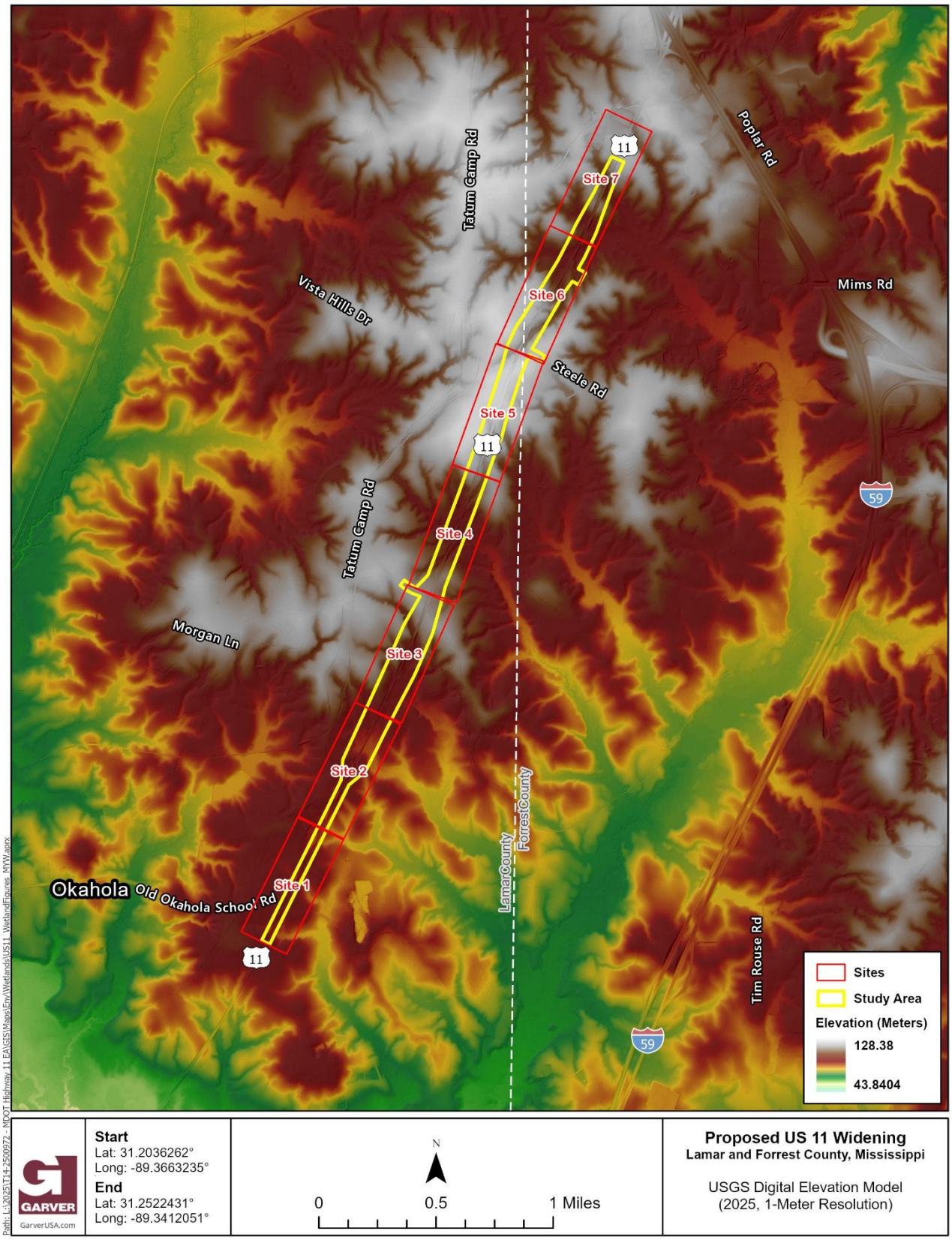
Component Percent Cutoff: None Specified

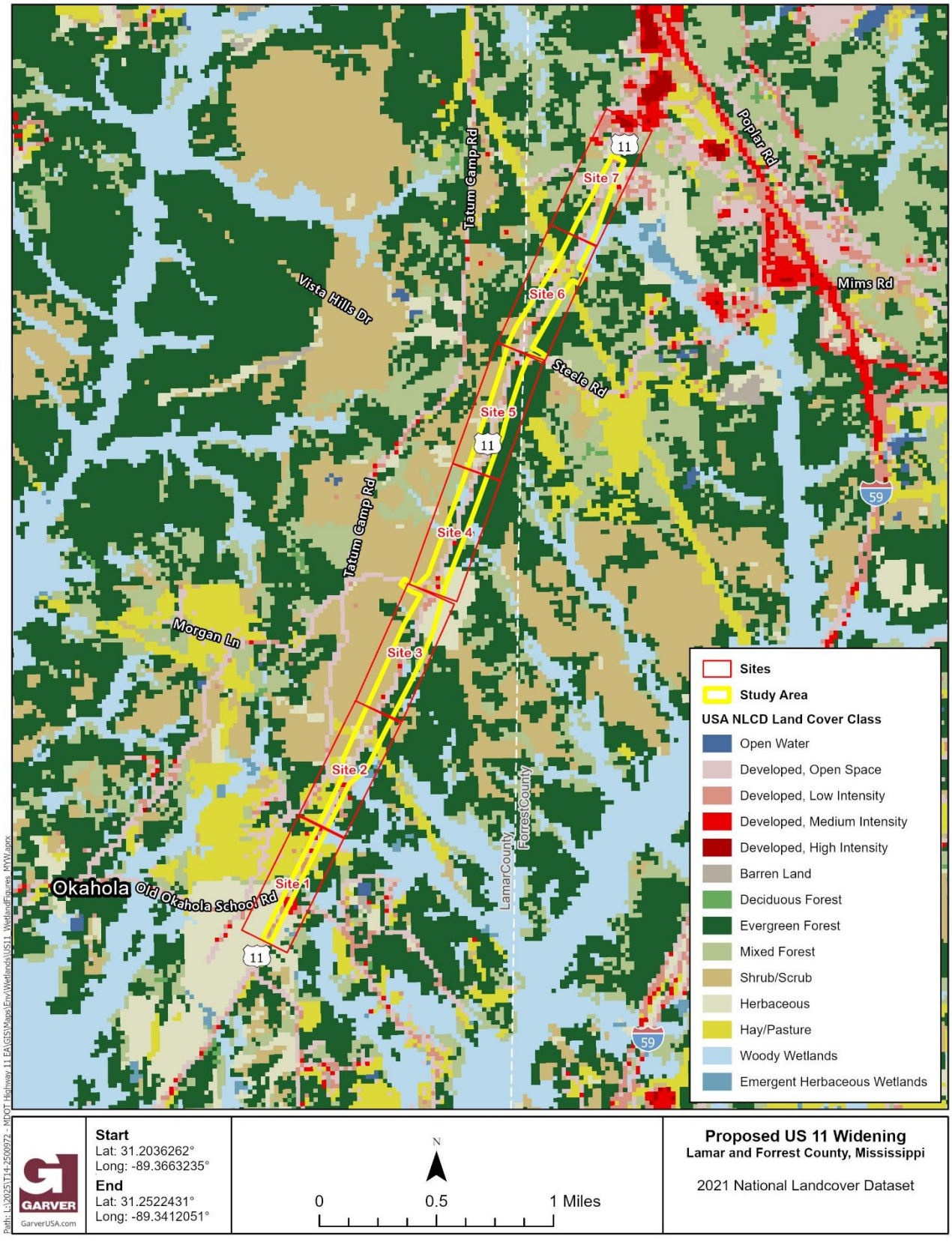
Tie-break Rule: Lower

Farmland Classification

Farmland classification identifies map units as prime farmland, farmland of statewide importance, farmland of local importance, or unique farmland. It identifies the location and extent of the soils that are best suited to food, feed, fiber, forage, and oilseed crops. NRCS policy and procedures on prime and unique farmlands are published in the "Federal Register," Vol. 43, No. 21, January 31, 1978.


Site 7
Site 6
Site 5
Site 4
Site 3
Site 2
Site 1
Tatum Camp Rd
Tatum Camp Rd
Vista Hills Dr
Steele Rd
Poplar Rd
Mims Rd
Morgan Ln
Old Okahola School Rd
Okahola
Lamar County
Forrest County
11
59
Sites
Study Area
Freshwater Emergent Wetland
Freshwater Forested/Shrub Wetland
Freshwater Pond
Riverine
Start
Lat: 31.2036262°
Long: -89.3663235°
End
Lat: 31.2522431°
Long: -89.3412051°
N
0
0.5
1 Miles
Proposed US 11 Widening
Lamar and Forrest County, Mississippi
NWI Wetlands
2025 ESRI Aerial Imagery
GARVER
GarverUSA.com
Path: L:\2025\T14-2500972 - MDOT Highway 11 EA\GIS\Maps\Env\Wetlands\US11_WetlandFigures_MYW.aprx


Site 7
Site 6
Site 5
Site 4
Site 3
Site 2
Site 1
Tatum Camp Rd
Tatum Camp Rd
Poplar Rd
Mims Rd
Vista Hills Dr
Steele Rd
Morgan Ln
Okahola
Old Okahola School Rd
LamarCounty
ForrestCounty
Tim Rouse Rd
11
59
Sites
Study Area
Elevation (Meters)
128.38
43.8404
Start
Lat: 31.2036262°
Long: -89.3663235°
End
Lat: 31.2522431°
Long: -89.3412051°
GARVER
GarverUSA.com
N
0
0.5
1 Miles
Proposed US 11 Widening
Lamar and Forrest County, Mississippi
USGS Digital Elevation Model
(2025, 1-Meter Resolution)
Path: L:\2025\T14-2500972 - MDOT Highway 11 EA\GIS\Maps\Env\Wetlands\US11_WetlandFigures_MYW.aprx


Site 7
Site 6
Site 5
Site 4
Site 3
Site 2
Site 1
Tatum Camp Rd
Poplar Rd
Vista Hills Dr
Mims Rd
Steele Rd
Morgan Ln
Okahola
Old Okahola School Rd
LamarCounty
ForrestCounty
11
59
Sites
Study Area
USA NLCD Land Cover Class
Open Water
Developed, Open Space
Developed, Low Intensity
Developed, Medium Intensity
Developed, High Intensity
Barren Land
Deciduous Forest
Evergreen Forest
Mixed Forest
Shrub/Scrub
Herbaceous
Hay/Pasture
Woody Wetlands
Emergent Herbaceous Wetlands
Start
Lat: 31.2036262°
Long: -89.3663235°
End
Lat: 31.2522431°
Long: -89.3412051°
GARVER
GarverUSA.com
N
0
0.5
1 Miles
Proposed US 11 Widening
Lamar and Forrest County, Mississippi
2021 National Landcover Dataset
Path: L:\2025\T14-2500972 - MDOT Highway 11 EA\GIS\Maps\Env\Wetlands\US11_WetlandFigures_MYW.aprx

Appendix D — Rainfall Data

Local Recorded Weather and USACE Antecedent Precipitation Tool Results

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

Record of Climatological Observations

These data are quality controlled and may not be identical to the original observations.

Generated on 03/04/2026

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Current Location: Elev: 147 ft. Lat: 31.2695° N Lon: 89.2561° W

Station: **HATTIESBURG CHAIN MUNICIPAL AIRPORT, MS US USW00013833**

Observation Time Temperature: Unknown Observation Time Precipitation: 2400

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		"Soil Temperature (F)"					
			"24 Hrs. Ending at Observation Time"			24 Hour Amounts Ending at Observation Time				At Obs. Time			4 in. Depth			8 in. Depth		
			Max.	Min.	At Obs.	Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2026	01	01	71	35		0.00		0.0		0.0								
2026	01	02	72	46		0.00		0.0		0.0								
2026	01	03	79	58		0.00		0.0		0.0								
2026	01	04	68	49		0.00		0.0		0.0								
2026	01	05	73	49		0.00		0.0		0.0								
2026	01	06	80	58		0.00		0.0		0.0								
2026	01	07	81	61		0.00		0.0		0.0								
2026	01	08	81	61		0.00		0.0		0.0								
2026	01	09	79	69		0.00		0.0		0.0								
2026	01	10	75	53		0.00		0.0		0.0								
2026	01	11	60	41		0.00		0.0		0.0								
2026	01	12	55	33		0.00		0.0		0.0								
2026	01	13	64	29		0.00		0.0		0.0								
2026	01	14	62	46		0.00		0.0		0.0								
2026	01	15	52	30		0.00		0.0		0.0								
2026	01	16	68	29		0.00		0.0		0.0								
2026	01	17	56	42		0.26		0.0		0.0								
2026	01	18	48	29		0.00		0.0		0.0								
2026	01	19	60	26		0.00		0.0		0.0								
2026	01	20	61	30		0.00		0.0		0.0								
2026	01	21	69	33		0.05		0.0		0.0								
2026	01	22	62	54		0.13		0.0		0.0								
2026	01	23	65	49		0.00		0.0		0.0								
2026	01	24	64	43				0.0		0.0								
2026	01	25	73	28				0.0		0.0								
2026	01	26	39	25		0.00		0.0		0.0								
2026	01	27	50	19		0.00												
2026	01	28	56	28		0.00		0.0		0.0								
2026	01	29	60	26		0.00		0.0		0.0								
2026	01	30	59	31		0.00		0.0		0.0								
2026	01	31	34	26		0.00		0.0		0.0								
		Summary	64	40		0.44		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

"s" This data value failed one of NCEI's quality control tests. "At Obs." = Temperature at time of observation

"T" values in the Precipitation or Snow category above indicate a "trace" value was recorded.

"A" values in the Precipitation Flag or the Snow Flag column indicate a multiday total, accumulated since last measurement, is being used.

Data value inconsistency may be present due to rounding calculations during the conversion process from SI metric units to standard imperial units.

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

Record of Climatological Observations

These data are quality controlled and may not be identical to the original observations.

Generated on 03/04/2026

National Centers for Environmental Information
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Current Location: Elev: 147 ft. Lat: 31.2695° N Lon: 89.2561° W

Station: **HATTIESBURG CHAIN MUNICIPAL AIRPORT, MS US USW00013833**

Observation Time Temperature: Unknown Observation Time Precipitation: 2400

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		"Soil Temperature (F)"					
			"24 Hrs. Ending at Observation Time"		At Obs.	24 Hour Amounts Ending at Observation Time				At Obs. Time			4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2026	02	01	47	19		0.00		0.0		0.0								
2026	02	02	64	23		0.00		0.0		0.0								
2026	02	03	74	34		0.00		0.0										
2026	02	04	61	37		0.00		0.0		0.0								
2026	02	05	54	30		0.00		0.0		0.0								
2026	02	06	77	32		0.00		0.0		0.0								
2026	02	07	67	37		0.00		0.0		0.0								
2026	02	08	74	31		0.00		0.0		0.0								
2026	02	09	75	49		0.00		0.0		0.0								
2026	02	10	79	56		0.00		0.0		0.0								
2026	02	11																
2026	02	12																
2026	02	13																
2026	02	14																
2026	02	15																
2026	02	16																
2026	02	17																
2026	02	18																
2026	02	19																
2026	02	20																
2026	02	21																
2026	02	22																
2026	02	23																
2026	02	24																
2026	02	25																
2026	02	26																
2026	02	27																
2026	02	28																
		Summary	67	35		0.00		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

"s" This data value failed one of NCEI's quality control tests. "At Obs." = Temperature at time of observation

"T" values in the Precipitation or Snow category above indicate a "trace" value was recorded.

"A" values in the Precipitation Flag or the Snow Flag column indicate a multiday total, accumulated since last measurement, is being used.

Data value inconsistency may be present due to rounding calculations during the conversion process from SI metric units to standard imperial units.

Coordinates	31.22291, -89.35581
Observation Date	2026-01-30
Elevation (ft)	332.56
Drought Index (PDSI)	Moderate drought
WebWIMP H_2O Balance	Wet Season

30 Days Ending	30^{th} %ile (in)	70^{th} %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2026-01-30	3.584252	6.124803	1.543307	Dry	1	3	3
2025-12-31	3.330315	5.971654	0.0	Dry	1	2	2
2025-12-01	2.086221	4.166536	0.291339	Dry	1	1	1
Result							Drier than Normal - 6

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
HATTIESBURG CHAIN MUNI AP	31.2694, -89.2561	146.982	6.709	185.578	4.264	9249	87
HATTIESBURG 3SW	31.3069, -89.3275	208.005	4.948	61.023	2.529	1	3
PETAL 0.7 N	31.3544, -89.2506	259.843	5.882	112.861	3.311	1	0
HATTIESBURG 5SW	31.2547, -89.3392	384.843	5.012	237.861	3.448	2102	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network
Daily Total
30-Day Rolling Total
30-Year Normal Range
Rainfall (Inches)
2026-02-10
2025-12-12
Jul 2025
Aug 2025
Sep 2025
Oct 2025
Nov 2025
Dec 2025
Jan 2026
Feb 2026
Mar 2026
Apr 2026
May 2026
Jun 2026
Coordinates 31.22291, -89.35581
Observation Date 2026-02-10
Elevation (ft) 332.56
Drought Index (PDSI) Moderate drought (2026-01)
WebWIMP H2O Balance Wet Season
30 Days Ending | 30th %ile (in) | 70th %ile (in) | Observed (in) | Wetness Condition | Condition Value | Month Weight | Product
2026-02-10 | 4.281102 | 6.134646 | 1.543307 | Dry | 1 | 3 | 3
2026-01-11 | 4.29252 | 7.593307 | 0.0 | Dry | 1 | 2 | 2
2025-12-12 | 2.257874 | 4.257874 | 0.291339 | Dry | 1 | 1 | 1
Result | | | | | | | Drier than Normal - 6
Figures and tables made by the Antecedent Precipitation Tool Version 3.0
US Army Corps of Engineers.
ERDC
Developed by: U.S. Army Corps of Engineers and U.S. Army Engineer Research and Development Center
Weather Station Name | Coordinates | Elevation (ft) | Distance (mi) | Elevation Δ | Weighted Δ | Days Normal | Days Antecedent
HATTIESBURG CHAIN MUNI AP | 31.2694, -89.2561 | 146.982 | 6.709 | 185.578 | 4.264 | 9249 | 87
HATTIESBURG 3SW | 31.3069, -89.3275 | 208.005 | 4.948 | 61.023 | 2.529 | 1 | 3
PETAL 0.7 N | 31.3544, -89.2506 | 259.843 | 5.882 | 112.861 | 3.311 | 1 | 0
HATTIESBURG 5SW | 31.2547, -89.3392 | 384.843 | 5.012 | 237.861 | 3.448 | 2102 | 0