

APPROVED JURISDICTIONAL DETERMINATION FORM
U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 01/14/2019

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: MOBILE DISTRICT, SAM-2018-01205-APS

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: MS County/parish/borough: HARRISON City: GULFPORT
Center coordinates of site (lat/long in degree decimal format): Lat. 30.386118° N, Long. 89.045287° W.
Universal Transverse Mercator: 303484.392891, 3363346.272479

Name of nearest waterbody: COFFEE CREEK

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: BILOXI BAY

Name of watershed or Hydrologic Unit Code (HUC): SHIP ISLAND PASS - MISSISSIPPI SOUND - 0317000908

☒ Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

☐ Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form.

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

☐ Office (Desk) Determination. Date:

☒ Field Determination. Date(s): 01/10/2019

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There **Are no** "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required]

☐ Waters subject to the ebb and flow of the tide.

☐ Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.
Explain: .

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There **Are** "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

1. Waters of the U.S.

a. Indicate presence of waters of U.S. in review area (check all that apply):¹

- ☐ TNWs, including territorial seas
- ☐ Wetlands adjacent to TNWs
- ☐ Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs
- ☐ Non-RPWs that flow directly or indirectly into TNWs
- ☐ Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
- ☒ Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
- ☐ Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
- ☐ Impoundments of jurisdictional waters
- ☐ Isolated (interstate or intrastate) waters, including isolated wetlands

b. Identify (estimate) size of waters of the U.S. in the review area:

Non-wetland waters: 110 linear feet: 8 width (ft) and/or acres.

Wetlands: 0.09 acres.

c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual

Elevation of established OHWM (if known): .

2. Non-regulated waters/wetlands (check if applicable):³

☐ Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional.
Explain: .

¹ Boxes checked below shall be supported by completing the appropriate sections in Section III below.

² For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

³ Supporting documentation is presented in Section III.F.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW

Identify TNW: .

Summarize rationale supporting determination: .

2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is “adjacent”: .

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are “relatively permanent waters” (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody⁴ is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

(i) General Area Conditions:

Watershed size: 43912800 **Pick List**

Drainage area: **Pick List**

Average annual rainfall: 54 inches

Average annual snowfall: 0 inches

(ii) Physical Characteristics:

(a) Relationship with TNW:

☐ Tributary flows directly into TNW.

☒ Tributary flows through **2** tributaries before entering TNW.

Project waters are **1 (or less)** river miles from TNW.

Project waters are **1 (or less)** river miles from RPW.

Project waters are **1 (or less)** aerial (straight) miles from TNW.

Project waters are **1 (or less)** aerial (straight) miles from RPW.

Project waters cross or serve as state boundaries. Explain: .

Identify flow route to TNW⁵: WETLAND TO INTERMITTENT TRIBUTARY TO COFFEE CREEK TO MISSISSIPPI SOUND.

⁴ Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

⁵ Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

Tributary stream order, if known: 2.

(b) General Tributary Characteristics (check all that apply):

Tributary is: ☐ Natural
☒ Artificial (man-made). Explain: CHANNEL IS STRAIGHT AND MAINTAINED.
☐ Manipulated (man-altered). Explain: .

Tributary properties with respect to top of bank (estimate):

Average width: 8 feet

Average depth: 2 feet

Average side slopes: **2:1**.

Primary tributary substrate composition (check all that apply):

<input checked="" type="checkbox"/> Silts	<input checked="" type="checkbox"/> Sands	<input type="checkbox"/> Concrete
<input type="checkbox"/> Cobbles	<input type="checkbox"/> Gravel	<input type="checkbox"/> Muck
<input type="checkbox"/> Bedrock	<input type="checkbox"/> Vegetation. Type/% cover:	
<input type="checkbox"/> Other. Explain: .		

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: SLOUGHING BANKS.

Presence of run/riffle/pool complexes. Explain: RUNS AND POOLS PRESENT. RIFFLES NOT OBSERVED..

Tributary geometry: **Relatively straight**

Tributary gradient (approximate average slope): 1-2 %

(c) Flow:

Tributary provides for: **Seasonal flow**

Estimate average number of flow events in review area/year: **20 (or greater)**

Describe flow regime: SEASONALLY PERENNIAL.

Other information on duration and volume: .

Surface flow is: **Confined**. Characteristics: .

Subsurface flow: **Yes**. Explain findings: OBSERVATIONS OVER TIME DUE TO FAMILIARITY WITH THE AREA INDICATE THAT FLOW IS GROUNDWATER DRIVEN.

☐ Dye (or other) test performed: .

Tributary has (check all that apply):

<input checked="" type="checkbox"/> Bed and banks	
<input checked="" type="checkbox"/> OHWM ⁶ (check all indicators that apply):	
<input checked="" type="checkbox"/> clear, natural line impressed on the bank	<input checked="" type="checkbox"/> the presence of litter and debris
<input type="checkbox"/> changes in the character of soil	<input checked="" type="checkbox"/> destruction of terrestrial vegetation
<input type="checkbox"/> shelving	<input type="checkbox"/> the presence of wrack line
<input checked="" type="checkbox"/> vegetation matted down, bent, or absent	<input type="checkbox"/> sediment sorting
<input checked="" type="checkbox"/> leaf litter disturbed or washed away	<input checked="" type="checkbox"/> scour
<input checked="" type="checkbox"/> sediment deposition	<input checked="" type="checkbox"/> multiple observed or predicted flow events
<input type="checkbox"/> water staining	<input type="checkbox"/> abrupt change in plant community
<input type="checkbox"/> other (list):	
<input type="checkbox"/> Discontinuous OHWM. ⁷ Explain: .	

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):

<input type="checkbox"/> High Tide Line indicated by:	<input type="checkbox"/> Mean High Water Mark indicated by:
<input type="checkbox"/> oil or scum line along shore objects	<input type="checkbox"/> survey to available datum;
<input type="checkbox"/> fine shell or debris deposits (foreshore)	<input checked="" type="checkbox"/> physical markings;
<input type="checkbox"/> physical markings/characteristics	<input checked="" type="checkbox"/> vegetation lines/changes in vegetation types.
<input type="checkbox"/> tidal gauges	
<input type="checkbox"/> other (list):	

(iii) **Chemical Characteristics:**

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Explain: WATER COLOR IS CLEAR, BUT TANIC. WATERSHED/DRAINAGE AREA IS RELATIVELY FLAT AND COASTAL.

Identify specific pollutants, if known: NONE KNOWN.

⁶A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

⁷Ibid.

(iv) **Biological Characteristics. Channel supports (check all that apply):**

- ☐ Riparian corridor. Characteristics (type, average width): .
- ☒ Wetland fringe. Characteristics: DUE TO THE ENCROACHING DEVELOPMENT, HYDROLOGIC ALTERATIONS ARE SIGNIFICANT. THIS CHANNEL SUPPORTS THE 0.09 ACRE WETLAND NOTED IN THIS FORM.
- ☒ Habitat for:
- ☐ Federally Listed species. Explain findings: .
- ☒ Fish/spawn areas. Explain findings: SMALL FISH (NOT GAMBUSIA) OBSERVED IN CHANNEL.
- ☐ Other environmentally-sensitive species. Explain findings: .
- ☒ Aquatic/wildlife diversity. Explain findings: FISH OBSERVED, RACCOON TRACKS OBSERVED, BIRDS

OBSERVED.

2. **Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW**

(i) **Physical Characteristics:**

(a) General Wetland Characteristics:

Properties:

Wetland size: 0.09 acres

Wetland type. Explain: HERBACEOUS. PRIMARILY GRASSES AND SEDGES, BUT SOME SMALL SHRUBS OBSERVED.

Wetland quality. Explain: LOW, SITE IS HEAVILY ALTERED BY SURROUNDING DEVELOPMENT AND PAST ACTIVITIES ON THE SITE. RECENT SIDECASTING OF MATERIAL EXCAVATED FROM THE CHANNEL HAS IMPACTED THE QUALITY OF THE WETLAND BY SEVERING THE DIRECT CONNECTIVITY OF THE WETLAND WITH THE CHANNEL.

Project wetlands cross or serve as state boundaries. Explain: .

(b) General Flow Relationship with Non-TNW:

Flow is: **Ephemeral flow**. Explain: NO FLOW OBSERVED DURING SITE VISIT, BUT EVIDENCE OF PAST FLOW OBSERVED.

Surface flow is: **Overland sheetflow**

Characteristics: FLOW INTO THE WETLAND RECEIVED FROM THE SURROUNDING UPLAND AREAS.

Subsurface flow: **No**. Explain findings: ELEVATION OF WATER IN CHANNEL IS APPROXIMATELY 6 FEET BELOW THE GROUND SURFACE OF THE WETLAND. SUBSURFACE FLOW IS UNLIKELY. NONE OBSERVED.

☐ Dye (or other) test performed: .

(c) Wetland Adjacency Determination with Non-TNW:

☐ Directly abutting

☒ Not directly abutting

☐ Discrete wetland hydrologic connection. Explain: .

☐ Ecological connection. Explain: .

☒ Separated by berm/barrier. Explain: SEPARATED FROM THE CHANNEL BY SIDECASTING OF MATERIAL EXCAVATED FROM THE CHANNEL. WETLAND HISTORICALLY CONNECTED DIRECTLY TO THE CHANNEL. SIDECASTING APPEARS TO HAVE OCCURRED WITHIN THE LAST 6 MONTHS.

(d) Proximity (Relationship) to TNW

Project wetlands are **1 (or less)** river miles from TNW.

Project waters are **1 (or less)** aerial (straight) miles from TNW.

Flow is from: **Wetland to navigable waters**.

Estimate approximate location of wetland as within the **2-year or less** floodplain.

(ii) **Chemical Characteristics:**

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: NO SURFACE WATER AT TIME OF INVESTIGATION. ALGAL MAT OBSERVED. WATERSHED FLAT AS TYPICAL WITH COASTAL WATERSHEDS.

Identify specific pollutants, if known: NONE KNOWN.

(iii) **Biological Characteristics. Wetland supports (check all that apply):**

- ☐ Riparian buffer. Characteristics (type, average width): .
- ☒ Vegetation type/percent cover. Explain: PRIMARILY HERBACEOUS GRASSES AND SEDGES SEVERAL FEET TALL. SPECIES PRESENT INCLUDE SPECIES SUCH AS PANICUM REPENS, ARUNDINARIA GIGANTEA, HELIANTHUS ANGUSTIFOLIUS, ETC.
- ☒ Habitat for:
- ☐ Federally Listed species. Explain findings: .
- ☐ Fish/spawn areas. Explain findings: .
- ☐ Other environmentally-sensitive species. Explain findings: .

☒ Aquatic/wildlife diversity. Explain findings: MANY ANIMAL TRAILS AND BIRDS OBSERVED THROUGH THE TALL GRASSES.

3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: **1**

Approximately (0.09) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

<u>Directly abuts? (Y/N)</u>	<u>Size (in acres)</u>	<u>Directly abuts? (Y/N)</u>	<u>Size (in acres)</u>
N	0.09		

Summarize overall biological, chemical and physical functions being performed:

FLOOD WATER STORAGE, WILDLIFE HABITAT, WATER QUALITY.

PRESENCE OF AN ALGAL MAT INDICATES THAT THE AREA HOLDS ENOUGH WATER TO SUPPORT THE PRESENCE OF ALGAE. HOLDING STORMWATER FOR LONGER PERIODS AIDS IN DECREASING STORMWATER FLOW IN THE CHANNEL.

THE AREA IS ONE OF THE ONLY UNDEVELOPED AREAS IN THE VICINITY OF THE SITE. THE SITE IS SURROUNDED ON ALL 4 SIDES BY RESIDENTIAL DEVELOPMENT, COMMERCIAL DEVELOPMENT AND TWO ROADS, ONE OF WHICH IS A BUSY CORRIDOR. THE UNDEVELOPED NATURE OF THE WETLAND CAN REASONABLY BE ASSUMED TO SERVE AS HABITAT THAT SUPPORTS MANY TYPES OF SMALL MAMMALS, REPTILES AND AMPHIBIANS, AND BIRDS.

WATER QUALITY IS ENHANCED THROUGH THE ABILITY OF THE WETLAND TO HOLD WATER LONG ENOUGH TO ALLOW SEDIMENT TO SETTLE OUT OF THE WATER COLUMN, ESSENTIALLY SERVING AS A STORMWATER BASIN. THE VEGETATION IN THE WETLAND AIDS IN FILTRATION OF THE WATER THAT ENTERS THE WETLAND SYSTEM PRIOR TO ENTRY INTO THE ADJACENT CHANNEL.

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

1. **Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D: .
2. **Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .
3. **Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: PRIMARY FUNCTIONS OF THE TRIBUTARY ARE THE CONVEYANCE OF GROUNDWATER, THE CONVEYANCE OF STORMWATER FROM THE SURROUNDING UPLAND AREAS, AND THE TRANSPORT OF POLLUTANTS FROM IMPERVIOUS SURFACES TO A LARGER BODY OF WATER (MS SOUND) EFFECTIVELY DILUTING THE POLLUTANTS THAT MAY BE IN THE WATER COLUMN. THE PRIMARY FUNCTIONS OF THE ADJACENT WETLAND ARE FLOOD WATER STORAGE, WILDLIFE HABITAT, WATER QUALITY ENHANCEMENT. THE AREA HAS EXPERIENCED MODERATE DEVELOPMENT IN THE AREA IN RECENT YEARS, INCREASING THE

IMPERVIOUS SURFACE AREA AND THE QUANTITY OF STORMWATER RUNOFF. THE AREA UNDER REVIEW IS ONE OF THE ONLY UNDEVELOPED AREAS IN THE VICINITY OF THE SITE. THE SITE IS SURROUNDED ON ALL 4 SIDES BY RESIDENTIAL DEVELOPMENT, COMMERCIAL DEVELOPMENT AND TWO ROADS, ONE OF WHICH IS A MODERATELY TRAFFICKED ROADWAY. THE TRIBUTARY AND WETLAND SERVE AS HABITAT FOR VARIOUS URBAN WILDLIFE SPECIES (SMALL MAMMALS, BIRDS, FISH, AMPHIBIANS, REPTILES, ETC.). THE PRESENCE OF AN ALGAL MAT IN THE WETLAND INDICATES THAT THE AREA HOLDS WATER MORE OFTEN THAN NOT. HOLDING STORMWATER FOR LONGER PERIODS AIDS IN DECREASING STORMWATER RUNOFF INTO THE CHANNEL. WATER QUALITY FOR THE AREA IS ENHANCED THROUGH THE ABILITY OF THE WETLAND TO HOLD WATER LONG ENOUGH TO ALLOW SEDIMENT TO SETTLE OUT OF THE WATER COLUMN, ESSENTIALLY SERVING AS A STORMWATER BASIN. THE VEGETATION IN THE WETLAND AIDS IN FILTRATION OF THE WATER THAT ENTERS THE WETLAND SYSTEM PRIOR TO ENTRY INTO THE ADJACENT CHANNEL. THE PRIMARY RELATIONSHIP BETWEEN THE INTERMITTENT TRIBUTARY AND WETLAND WITH THE TNW (MS SOUND) ARE IN THE FORM OF STORMWATER CONVEYANCE AND CONTROL AND WATER QUALITY. THE INCREASED URBANIZATION OF THE AREA MAKES THESE FUNCTIONS MORE AND MORE IMPORTANT FOR THE AREA AS DEVELOPMENT CONTINUES.

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1. TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area:

- ☐ TNWs: linear feet width (ft), Or, acres.
☐ Wetlands adjacent to TNWs: acres.

2. RPWs that flow directly or indirectly into TNWs.

- ☐ Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: .
☒ Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: SIGNIFICANT PRESENCE OF ALGAE WITHIN THE WATER COLUMN AND BASEFLOW PRESENT. RAINFALL ACCUMULATION WITHIN PRECEEDING 48-HOURS OF 09 JAN 2019 SITE VISIT: 0.00 INCHES. ACCUMULATED RAINFALL DATA RETRIEVED FROM NOAA NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE FOR NOAA STATION GULFPORT BILOXI AIRPORT, MS USW00093874, RETRIEVED 30 JAN 2019.

Provide estimates for jurisdictional waters in the review area (check all that apply):

- ☒ Tributary waters: **110** linear feet **8** width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: .

3. Non-RPWs⁸ that flow directly or indirectly into TNWs.

- ☐ Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):

- ☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: .

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

- ☐ Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.
☐ Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .
☐ Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

⁸See Footnote # 3.

5. **Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.**

- ☒ Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: **0.9** acres.

6. **Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

- ☐ Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

7. **Impoundments of jurisdictional waters.⁹**

As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.

- ☐ Demonstrate that impoundment was created from “waters of the U.S.,” or
☐ Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
☐ Demonstrate that water is isolated with a nexus to commerce (see E below).

E. **ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):¹⁰**

- ☐ which are or could be used by interstate or foreign travelers for recreational or other purposes.
☐ from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
☐ which are or could be used for industrial purposes by industries in interstate commerce.
☐ Interstate isolated waters. Explain: .
☐ Other factors. Explain: .

Identify water body and summarize rationale supporting determination: .

Provide estimates for jurisdictional waters in the review area (check all that apply):

- ☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: .
☐ Wetlands: acres.

F. **NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):**

- ☐ If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
☐ Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
☐ Prior to the Jan 2001 Supreme Court decision in “SWANCC,” the review area would have been regulated based solely on the “Migratory Bird Rule” (MBR).
☐ Waters do not meet the “Significant Nexus” standard, where such a finding is required for jurisdiction. Explain: .
☐ Other: (explain, if not covered above): .

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):

- ☐ Non-wetland waters (i.e., rivers, streams): linear feet width (ft).
☐ Lakes/ponds: acres.
☐ Other non-wetland waters: acres. List type of aquatic resource: .
☐ Wetlands: acres.

⁹ To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

¹⁰ Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):

- ☐ Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).
- ☐ Lakes/ponds: acres.
- ☐ Other non-wetland waters: acres. List type of aquatic resource: .
- ☐ Wetlands: acres.

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):

- ☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: DELINEATION WITH MAPS AND DATA SHEETS SUBMITTED BY BMA, INC..
- ☒ Data sheets prepared/submitted by or on behalf of the applicant/consultant.
 - ☒ Office concurs with data sheets/delineation report.
 - ☐ Office does not concur with data sheets/delineation report.
- ☐ Data sheets prepared by the Corps: .
- ☐ Corps navigable waters' study: .
- ☐ U.S. Geological Survey Hydrologic Atlas: .
 - ☐ USGS NHD data.
 - ☐ USGS 8 and 12 digit HUC maps.
- ☒ U.S. Geological Survey map(s). Cite scale & quad name: GULFPORT NORTH QUADRANGE, 1999, 7.5 MIN SERIES, 1:24,000.
- ☒ USDA Natural Resources Conservation Service Soil Survey. Citation: NRCS WEB SOIL SURVEY AT <https://websoilsurvey.nrcs.usda.gov/app/>, ACCESSED 24 OCT 2018.
- ☒ National wetlands inventory map(s). Cite name: NWI MAPPER AT <https://www.fws.gov/wetlands/Data/Mapper.html> ACCESSED 29 OCT 2018.
- ☐ State/Local wetland inventory map(s): .
- ☐ FEMA/FIRM maps: .
- ☐ 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- ☐ Photographs: ☒ Aerial (Name & Date): GOOGLE EARTH AERIAL IMAGERY, 25 FEB 2017.
or ☒ Other (Name & Date): SUBMITTED SITE PHOTOGRAPHS AND PHOTOGRAPHS TAKEN BY PM DURING

SITE VISIT.

- ☐ Previous determination(s). File no. and date of response letter: .
- ☐ Applicable/supporting case law: .
- ☐ Applicable/supporting scientific literature: .
- ☒ Other information (please specify): SITE VISIT CONDUCTED BY PM ON 09 JAN 2019.

B. ADDITIONAL COMMENTS TO SUPPORT JD: .