

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): March 11, 2022

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Savannah District, Augusta Corporate Center, SAS-2016-00873

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: Georgia County/parish/borough: Richmond City: Augusta
Center coordinates of site (lat/long in degree decimal format): Lat. 33.274145° N, Long. -81.935537° E.
Universal Transverse Mercator: 412875.79mN, 3682069.61mE, Zone 17S

Name of nearest waterbody: Little McBean Creek

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

Name of watershed or Hydrologic Unit Code (HUC): Middle Savannah - 03060106

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: March 11, 2022 (CESAS-RD-P)

Field Determination. Date(s): October 19, 2021 (Agent)

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 no** "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: linear feet: width (ft) and/or acres.

Wetlands: acres.

c. Limits (boundaries) of jurisdiction based on: Pick List

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: **One Non-Jurisdictional Wetland.**

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: **Pick List**

Drainage area: **Pick List**

Average annual rainfall: inches

Average annual snowfall: inches

(ii) Physical Characteristics:

(a) Relationship with TNW:

Tributary flows directly into TNW.

Tributary flows through **Pick List** tributaries before entering TNW.

Project waters are **Pick List** river miles from TNW.

Project waters are **Pick List** river miles from RPW.

Project waters are **Pick List** aerial (straight) miles from TNW.

Project waters are **Pick List** aerial (straight) miles from RPW.

Project waters cross or serve as state boundaries. Explain:

Identify flow route to TNW⁵:

Tributary stream order, if known:

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.

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

Tributary is: Natural
 Artificial (man-made). Explain:
 Manipulated (man-altered). Explain:

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

Average width: feet
Average depth: feet
Average side slopes: **Pick List**.

Primary tributary substrate composition (check all that apply):

Silts Sands Concrete
 Cobbles Gravel Muck
 Bedrock Vegetation. Type/% cover:
 Other. Explain:

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

Presence of run/riffle/pool complexes. Explain:

Tributary geometry: **Pick List**

Tributary gradient (approximate average slope): %

(c) Flow:

Tributary provides for: **Pick List**

Estimate average number of flow events in review area/year: **Pick List**

Describe flow regime:

Other information on duration and volume:

Surface flow is: **Pick List**. Characteristics:

Subsurface flow: **Pick List**. Explain findings:

Dye (or other) test performed:

Tributary has (check all that apply):

Bed and banks
 OHWM⁶ (check all indicators that apply):
 clear, natural line impressed on the bank the presence of litter and debris
 changes in the character of soil destruction of terrestrial vegetation
 shelving the presence of wrack line
 vegetation matted down, bent, or absent sediment sorting
 leaf litter disturbed or washed away scour
 sediment deposition multiple observed or predicted flow events
 water staining abrupt change in plant community
 other (list):
 Discontinuous OHWM.⁷ Explain:

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

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

(iii) **Chemical Characteristics:**

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

Explain:

Identify specific pollutants, if 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:
- Habitat for:
 - Federally Listed species. Explain findings:
 - Fish/spawn areas. Explain findings:
 - Other environmentally-sensitive species. Explain findings:
 - Aquatic/wildlife diversity. Explain findings:

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: acres

Wetland type. Explain:

Wetland quality. Explain:

Project wetlands cross or serve as state boundaries. Explain:

(b) General Flow Relationship with Non-TNW:

Flow is: **Pick List**. Explain:

Surface flow is: **Pick List**

Characteristics:

Subsurface flow: **Pick List**. Explain findings:

- 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:

(d) Proximity (Relationship) to TNW

Project wetlands are **Pick List** river miles from TNW.

Project waters are **Pick List** aerial (straight) miles from TNW.

Flow is from: **Pick List**.

Estimate approximate location of wetland as within the **Pick List** 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:

Identify specific pollutants, if known:

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

- Riparian buffer. Characteristics (type, average width):
- Vegetation type/percent cover. Explain:
- Habitat for:
 - Federally Listed species. Explain findings:
 - Fish/spawn areas. Explain findings:
 - Other environmentally-sensitive species. Explain findings:
 - Aquatic/wildlife diversity. Explain findings:

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

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

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

For each wetland, specify the following:

Directly abuts? (Y/N)

Size (in acres)

Directly abuts? (Y/N)

Size (in acres)

Summarize overall biological, chemical and physical functions being performed:

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:

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:

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: .

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.

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: 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: .

⁸See Footnote # 3.

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

¹⁰Prior 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 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): **Non-Jurisdictional Wetland does not have unbroken surface or shallow sub-surface connection to jurisdictional waters. It is not physically separated from jurisdictional waters by man-made dikes or barriers, natural river berms, beach dunes, and the like. Its proximity to a jurisdictional water is not reasonably close. Isolated Wetland is non-abutting and does not meet the description of "adjacent", as defined in 33 CFR 328.3(c).**

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.

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: 0.68-acres.

SECTION IV: DATA SOURCES.

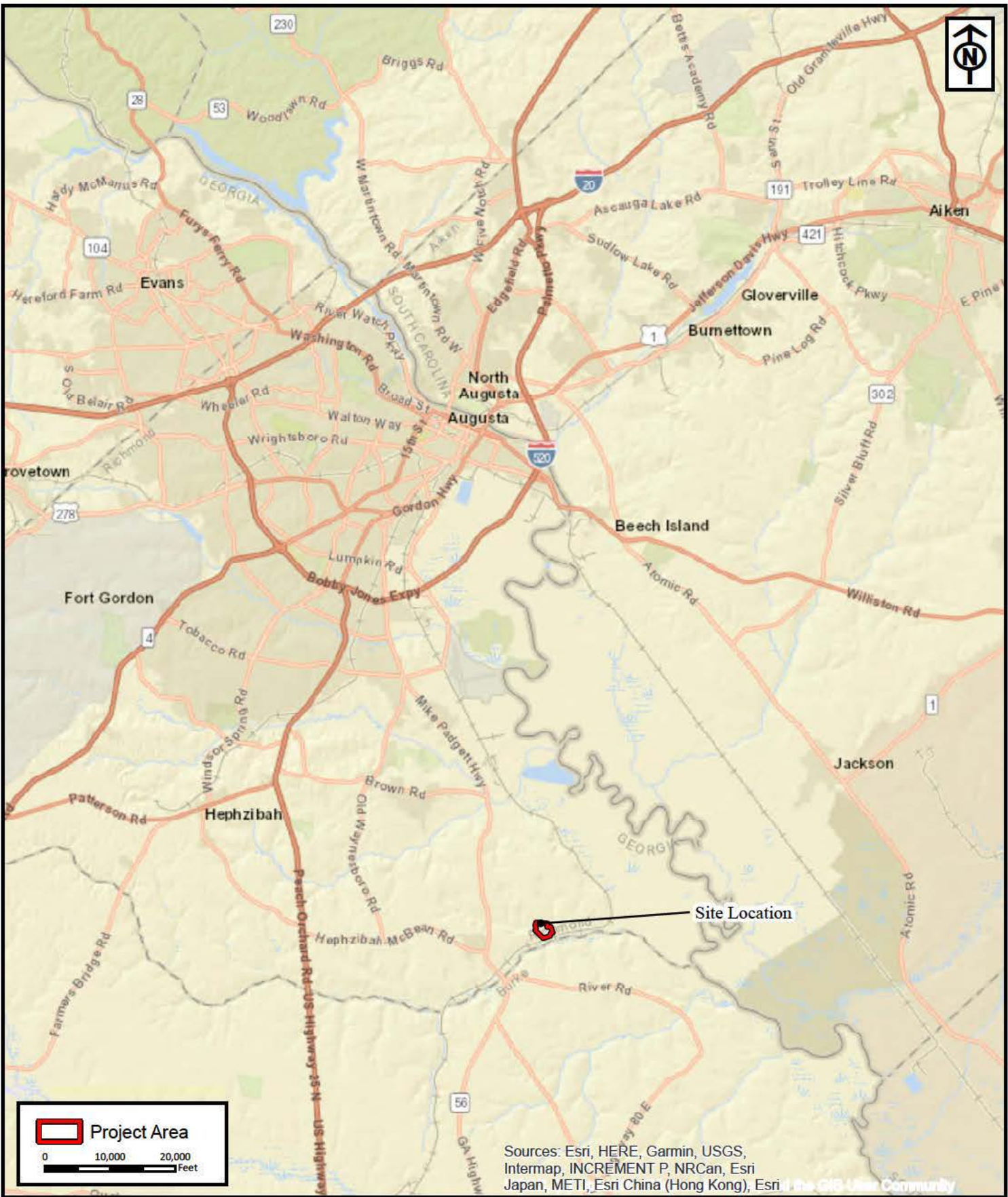
A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):

- Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: AJD request received February 1, 2022, as prepared by Resource & Land Consultants, LLC, PDF page 12, Figure 1: Vicinity Map, dated January 25, 2022; PDF page 16, Figure 5: 1999 Color Infrared Photograph, dated January 28, 2022; Figure 7: Aquatic Resource GPS Exhibit, revised March 9, 2022 .
- 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: AJD request received February 1, 2022, as prepared by Resource & Land Consultants, LLC, PDF page 13, Figure 2: USGS Topographic Survey, dated January 25, 2022.
- USDA Natural Resources Conservation Service Soil Survey. Citation: AJD request received February 1, 2022, as prepared by Resource & Land Consultants, LLC, PDF page 15, Figure 4: USDA - NRCS Soil Survey, dated January 25, 2022.
- National wetlands inventory map(s). Cite name: AJD request received February 1, 2022, as prepared by Resource & Land Consultants, LLC, PDF page 14, Figure 3: USFWS National Wetland Inventory, dated January 25, 2022.
- State/Local wetland inventory map(s): .
- FEMA/FIRM maps: National Flood Hazard Layer FIRMett, exported on March 9, 2022.
- 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- Photographs: Aerial (Name & Date): AJD request received February 1, 2022, as prepared by Resource & Land Consultants, LLC, PDF page 17, Figure 6: Color Ortho Photograph, dated January 28, 2022.
 - or Other (Name & Date): Site Photographs: IMG 2411-2413 and IMG 2416, dated October 19, 2021.
- Previous determination(s). File no. and date of response letter: .

- Applicable/supporting case law: .
- Applicable/supporting scientific literature: .
- Other information (please specify): US Drought Monitor, Georgia (October 19, 2021); SAD Regulatory Viewer, including DEM dataset for subject review area; Google Earth aerial imagery, including EPA surface water data; and USDA hydrologic soil group map.

B. ADDITIONAL COMMENTS TO SUPPORT JD: During the site inspection, conducted by RLC on October 19, 2021, Non-Jurisdictional Wetland was observed to be completely surrounded by uplands that are approximately two (2) feet higher in elevation than the average surface elevation of the wetland. The wetland is a depression with no outfall. No direct surface connection was identified between the non-jurisdictional water and other onsite waters. Based on observations made during the inspection and the distance from the non-jurisdictional wetland to the nearest jurisdictional waters, no subsurface connection could be documented. It was determined that any subsurface flow would occur from the upland into the non-jurisdictional wetland.

Onsite waters flow to the southeast. The nearest potentially jurisdictional water is a wetland located approximately 30.5 meters southeast of the subject isolated wetland. Waters from potentially jurisdiction wetland flow approximately 340 meters southward into McBean Creek. McBean Creek flows eastward for approximately 7.2 kilometers until it enters the Savannah River, the closest TNW to the subject isolated wetland..

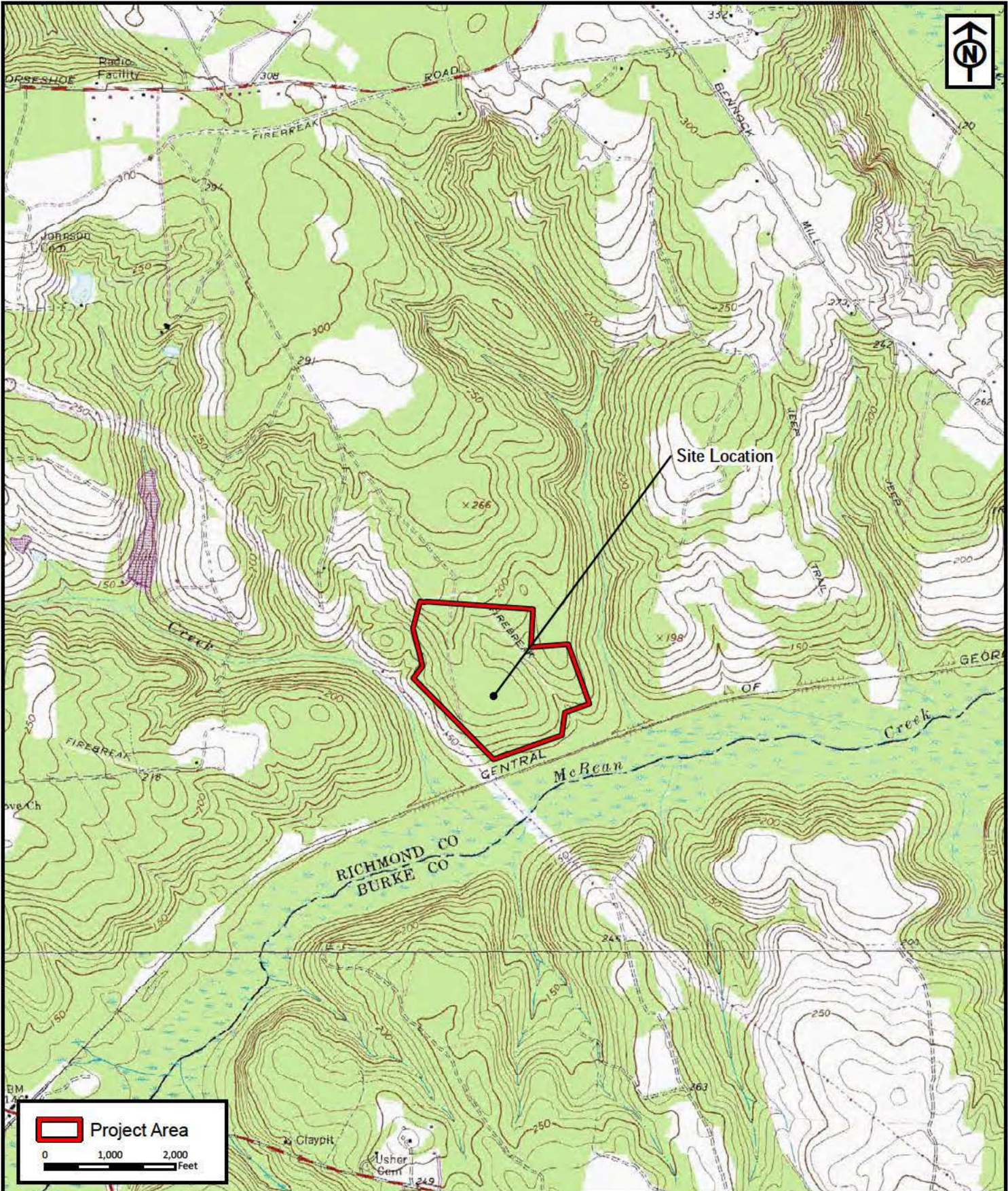


RLC Project No.:	14-182.1
Figure No.:	1
Prepared By:	RP
Sketch Date:	1/25/2022
Map Scale :	1 inch = 20,000 feet

Augusta Corporate Park
Richmond County, Georgia

Vicinity Map
Prepared For: Augusta Economic Development Authority

RLC
RESOURCE+LAND
CONSULTANTS
41 Park of Commerce Way, Ste. 303
Savannah, Georgia 31405
912.443.5896 www.rlcnc.com

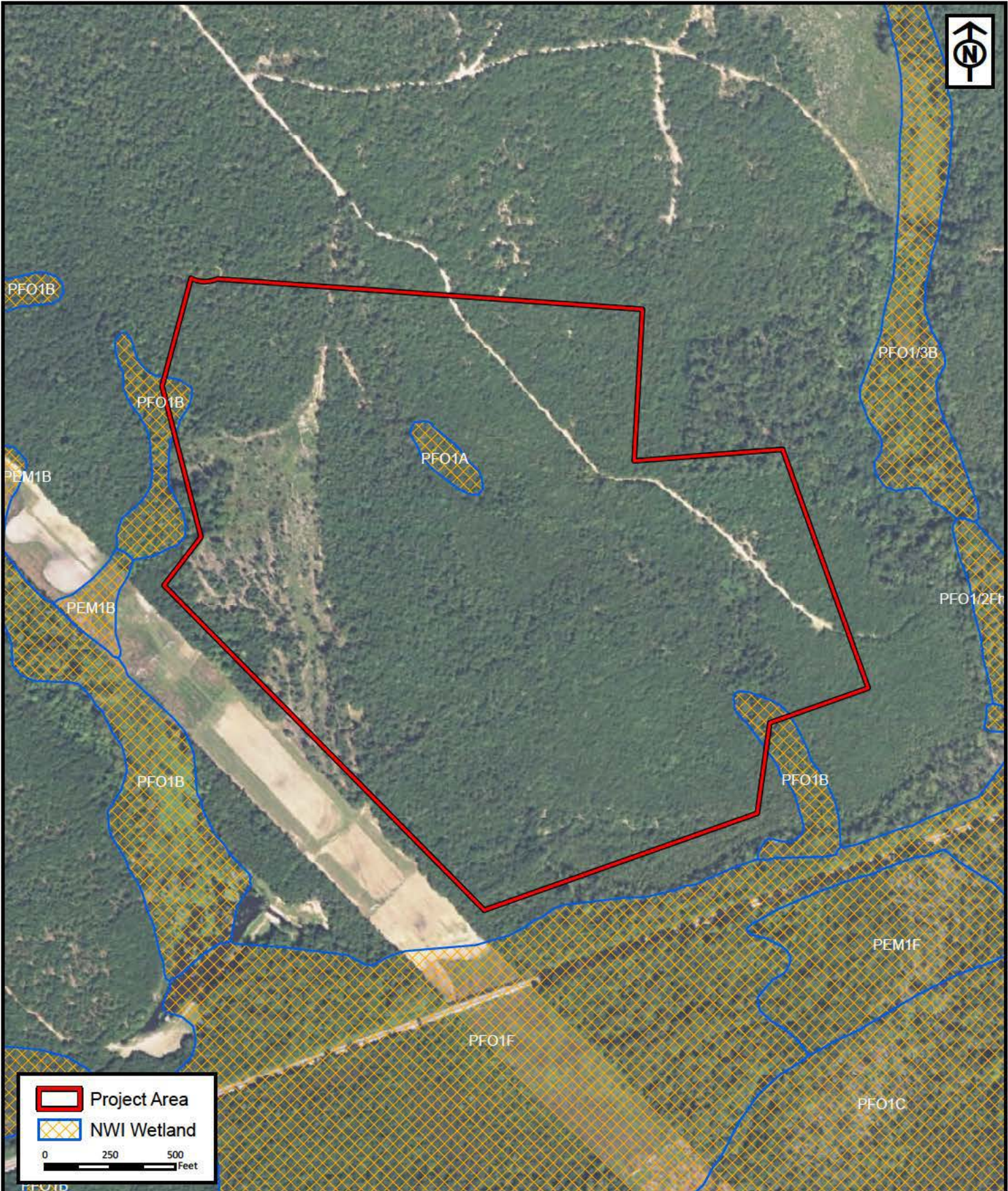


RLC Project No.:	14-182.1
Figure No.:	2
Prepared By:	RP
Sketch Date:	1/25/2022
Map Scale :	1 inch = 2,000 feet

Augusta Corporate Park
 Richmond County, Georgia

USGS Topographic Survey
 Prepared For: Augusta Economic Development Authority

RLC
RESOURCE+LAND CONSULTANTS
 41 Park of Commerce Way, Ste. 303
 Savannah, Georgia 31405
 912.443.5896 www.rlandc.com



	Project Area
	NWI Wetland
0 250 500 Feet	

RLC Project No.:	14-182
Figure No.:	3
Prepared By:	RP
Sketch Date:	1/25/2022
Map Scale :	1 inch = 500 feet

Augusta Corporate Park
Richmond County, Georgia

USFWS National Wetland Inventory
Prepared For: Augusta Economic Development Authority

RLC
<small>RESOURCE+LAND CONSULTANTS 41 Park of Commerce Way, Ste. 303 Savannah, Georgia 31405 912.443.5896 www.rlandc.com</small>



Project Area

0 250 500
Feet

RLC Project No.:	14-182.1
Figure No.:	5
Prepared By:	RP
Sketch Date:	1/28/2022
Map Scale :	1 inch = 500 feet

Augusta Corporate Park

Richmond County, Georgia

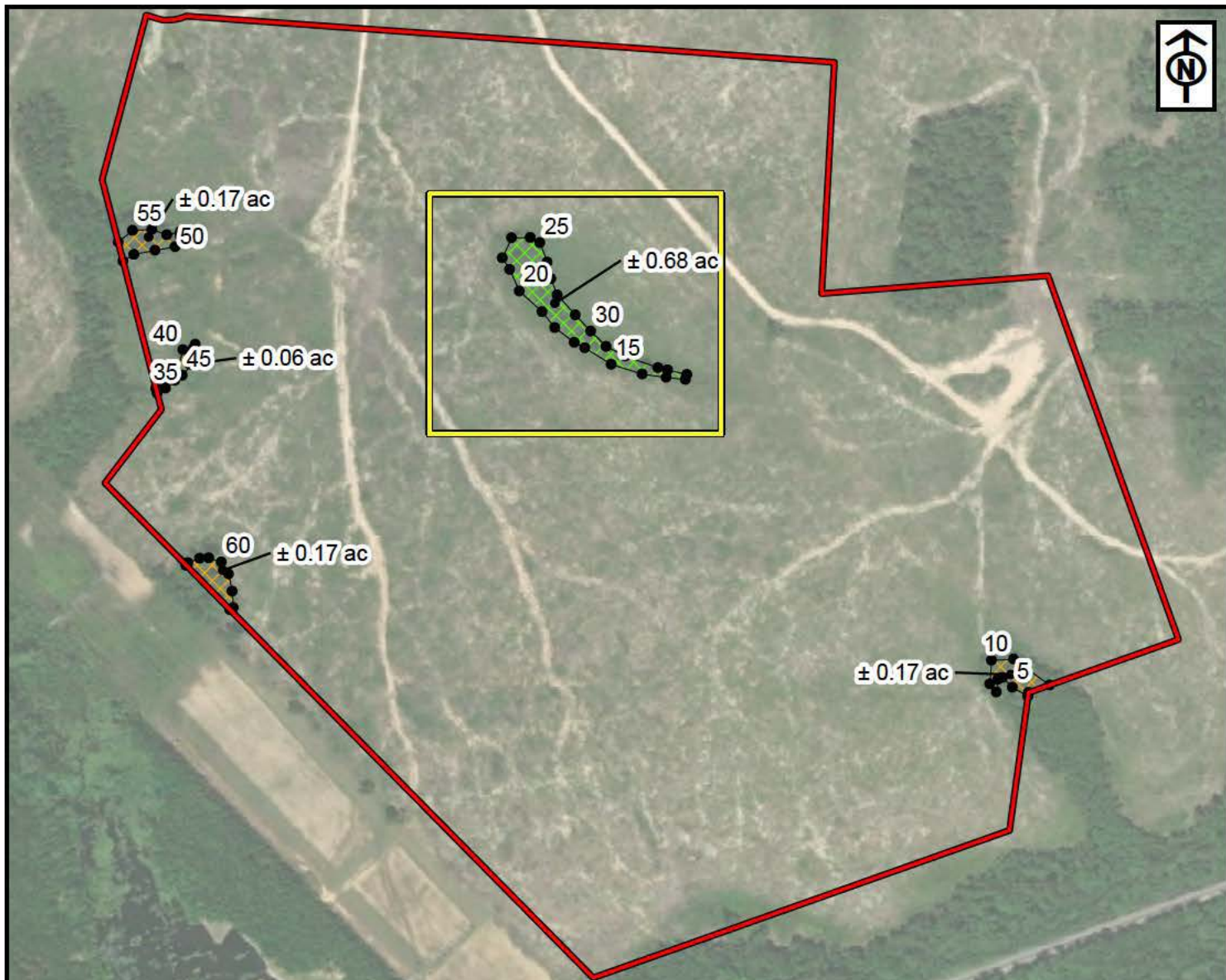
1999 Color Infrared Photograph

Prepared For: Augusta Economic Development Authority

RLC

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Savannah, Georgia 31405
912.443.5896 www.rlandc.com



Label	Latitude	Longitude	Label	Latitude	Longitude	Label	Latitude	Longitude
1	33.260442	-81.923762	23	33.263364	-81.927888	45	33.262418	-81.930602
2	33.260262	-81.923466	24	33.263366	-81.927733	46	33.263428	-81.930849
3	33.260211	-81.923641	25	33.263330	-81.927655	47	33.263391	-81.930726
4	33.260184	-81.923645	26	33.263196	-81.927596	48	33.263412	-81.930614
5	33.260247	-81.923773	27	33.263080	-81.927565	49	33.263381	-81.930615
6	33.260314	-81.923855	28	33.262969	-81.927513	50	33.263308	-81.930658
7	33.260303	-81.923892	29	33.262830	-81.927365	51	33.263284	-81.930823
8	33.260214	-81.923906	30	33.262718	-81.927237	52	33.263255	-81.930997
9	33.260271	-81.923958	31	33.262612	-81.927111	53	33.263209	-81.931087
10	33.260434	-81.923944	32	33.262545	-81.926953	54	33.263341	-81.931127
11	33.262416	-81.926447	33	33.262464	-81.926685	55	33.263422	-81.931008
12	33.262382	-81.926459	34	33.262448	-81.926606	56	33.261104	-81.930574
13	33.262397	-81.926617	35	33.262329	-81.930739	57	33.261121	-81.930558
14	33.262420	-81.926814	36	33.262295	-81.930809	58	33.261153	-81.930461
15	33.262488	-81.927070	37	33.262331	-81.930820	59	33.261155	-81.930386
16	33.262602	-81.927286	38	33.262351	-81.930759	60	33.261126	-81.930283
17	33.262640	-81.927372	39	33.262383	-81.930664	61	33.261044	-81.930225
18	33.262742	-81.927534	40	33.262596	-81.930596	62	33.260924	-81.930195
19	33.262852	-81.927637	41	33.262633	-81.930494	63	33.260810	-81.930186
20	33.262996	-81.927824	42	33.262605	-81.930510	64	33.260797	-81.930215
21	33.263145	-81.927904	43	33.262554	-81.930479			
22	33.263226	-81.927964	44	33.262494	-81.930526			

 AJD Boundary = ±10.2 ac
 ARDR Boundary = ±89.7 ac
 Jurisdictional Wetland = ±0.58 ac
 Non-Jurisdictional Wetland = ±0.68 ac

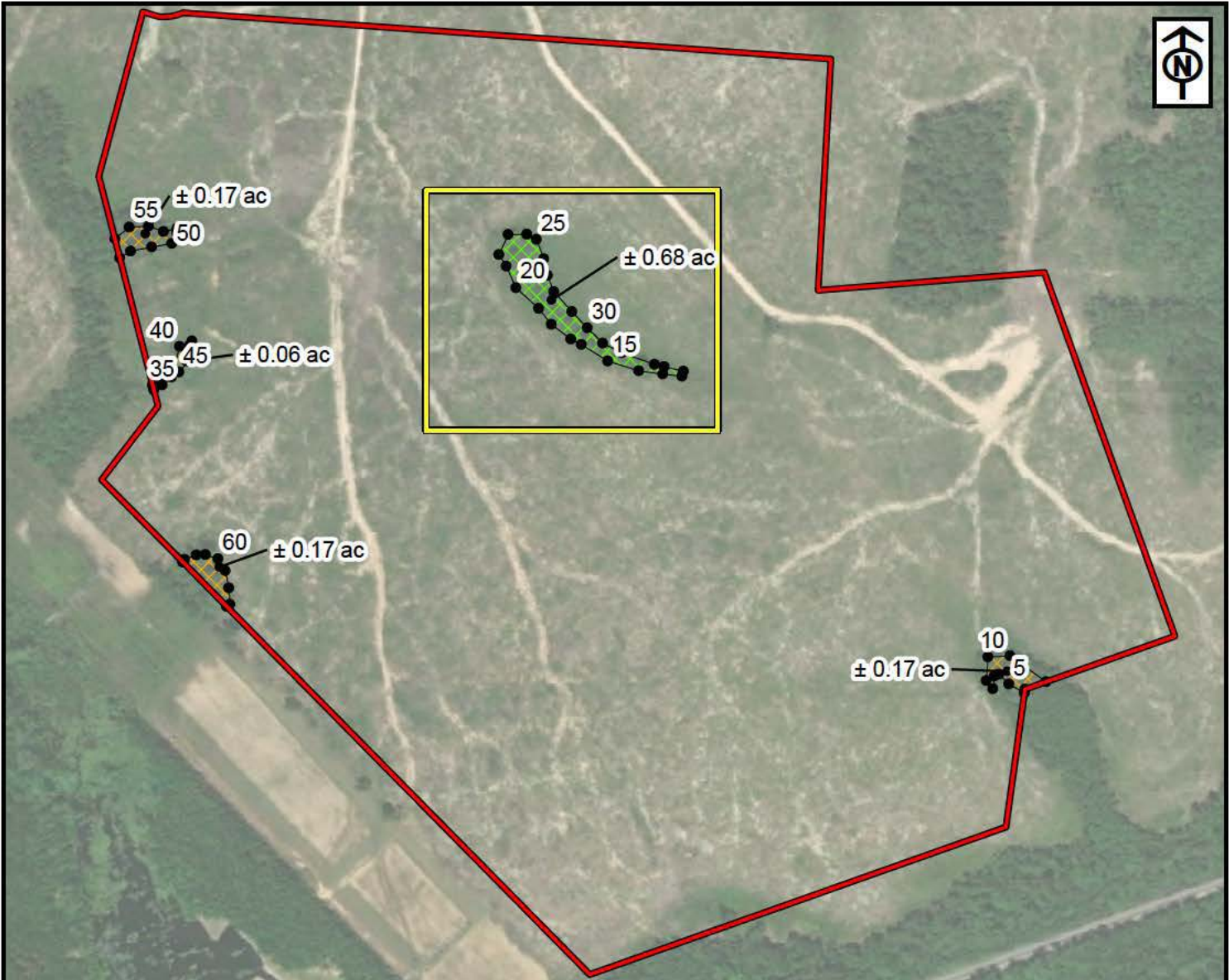
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 Feet

RLC Project No.:	14-182.1
Figure No.:	7
Prepared By:	RP
Sketch Date:	3/9/2022
Map Scale :	1 inch = 400 feet

Augusta Corporate Park
 Richmond County, Georgia

**Aquatic Resource
 GPS Exhibit**
 Prepared For: Augusta Economic
 Development Authority

RLC
 RESOURCE+LAND
 CONSULTANTS
41 Park of Commerce Way, Ste. 303
 Savannah, Georgia 31405
 912.443.5896 www.rlandc.com



Label	Latitude	Longitude	Label	Latitude	Longitude	Label	Latitude	Longitude
1	33.260442	-81.923762	23	33.263364	-81.927888	45	33.262418	-81.930602
2	33.260262	-81.923466	24	33.263366	-81.927733	46	33.263428	-81.930849
3	33.260211	-81.923641	25	33.263330	-81.927655	47	33.263391	-81.930726
4	33.260184	-81.923645	26	33.263196	-81.927596	48	33.263412	-81.930614
5	33.260247	-81.923773	27	33.263080	-81.927565	49	33.263381	-81.930615
6	33.260314	-81.923855	28	33.262969	-81.927513	50	33.263308	-81.930658
7	33.260303	-81.923892	29	33.262830	-81.927365	51	33.263284	-81.930823
8	33.260214	-81.923906	30	33.262718	-81.927237	52	33.263255	-81.930997
9	33.260271	-81.923958	31	33.262612	-81.927111	53	33.263209	-81.931087
10	33.260434	-81.923944	32	33.262545	-81.926953	54	33.263341	-81.931127
11	33.262416	-81.926447	33	33.262464	-81.926685	55	33.263422	-81.931008
12	33.262382	-81.926459	34	33.262448	-81.926606	56	33.261104	-81.930574
13	33.262397	-81.926617	35	33.262329	-81.930739	57	33.261121	-81.930558
14	33.262420	-81.926814	36	33.262295	-81.930809	58	33.261153	-81.930461
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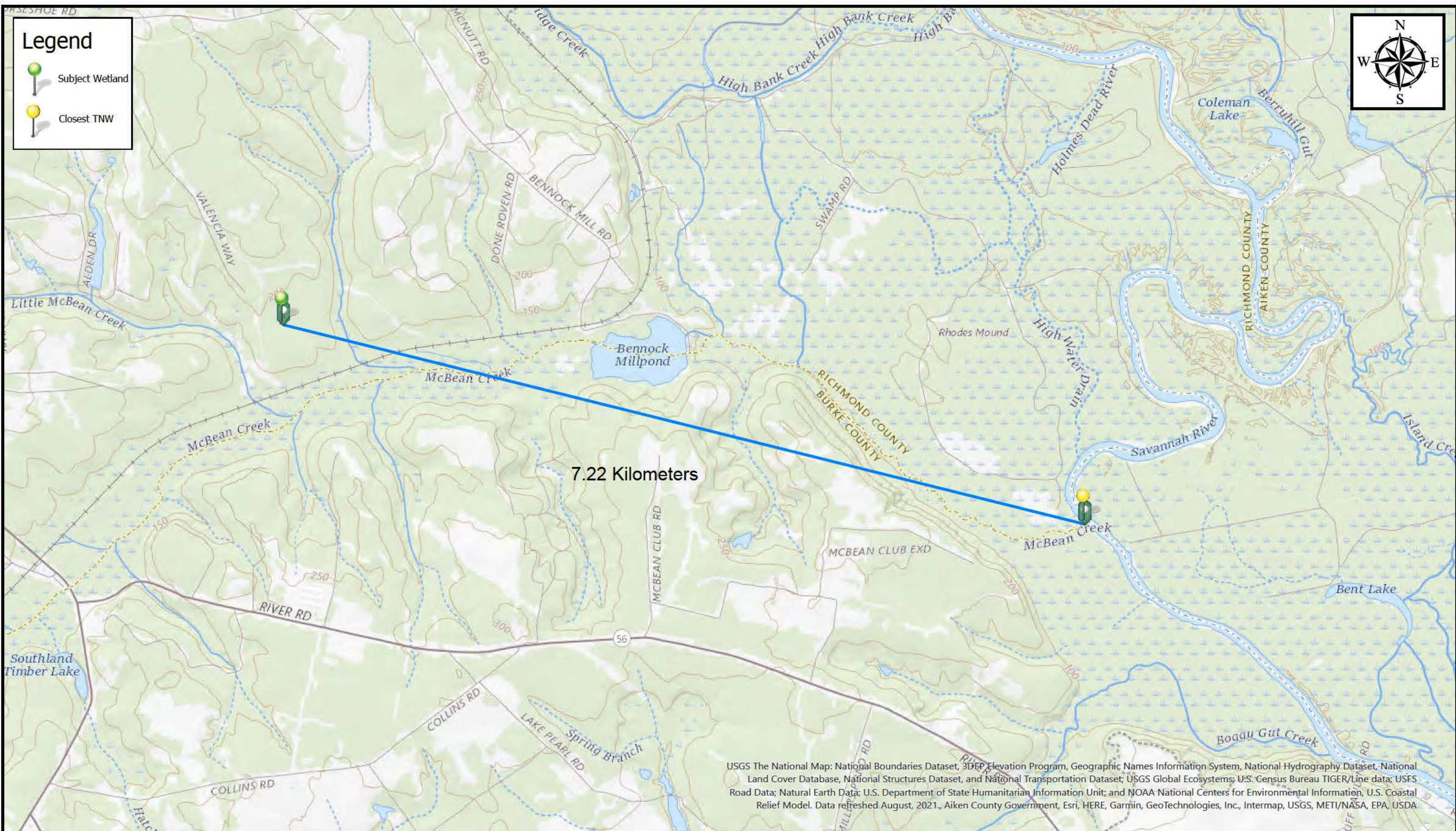
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 Feet

RLC Project No.:	14-182.1
Figure No.:	7
Prepared By:	RP
Sketch Date:	3/9/2022
Map Scale :	1 inch = 400 feet

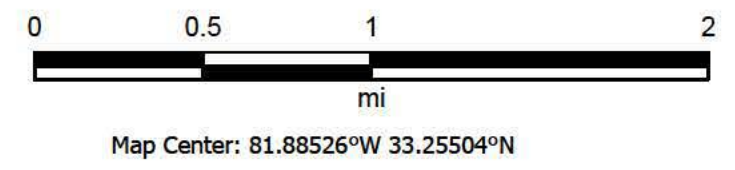
Augusta Corporate Park
 Richmond County, Georgia

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Subject Wetland and TNW Location Map
SAS-2016-00873
Augusta, Richmond County, Georgia
(33.2616, -81.9273).



Map Created by: Justin Edwards, Regulatory Specialist
 Date: 3/11/2022
 Coordinate System: WGS 1984 Web Mercator Auxiliary Sphere
 Projection: Mercator Auxiliary Sphere



National Flood Hazard Layer FIRMette



81°55'57"W 33°15'57"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D

OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall

OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance
		17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature

MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

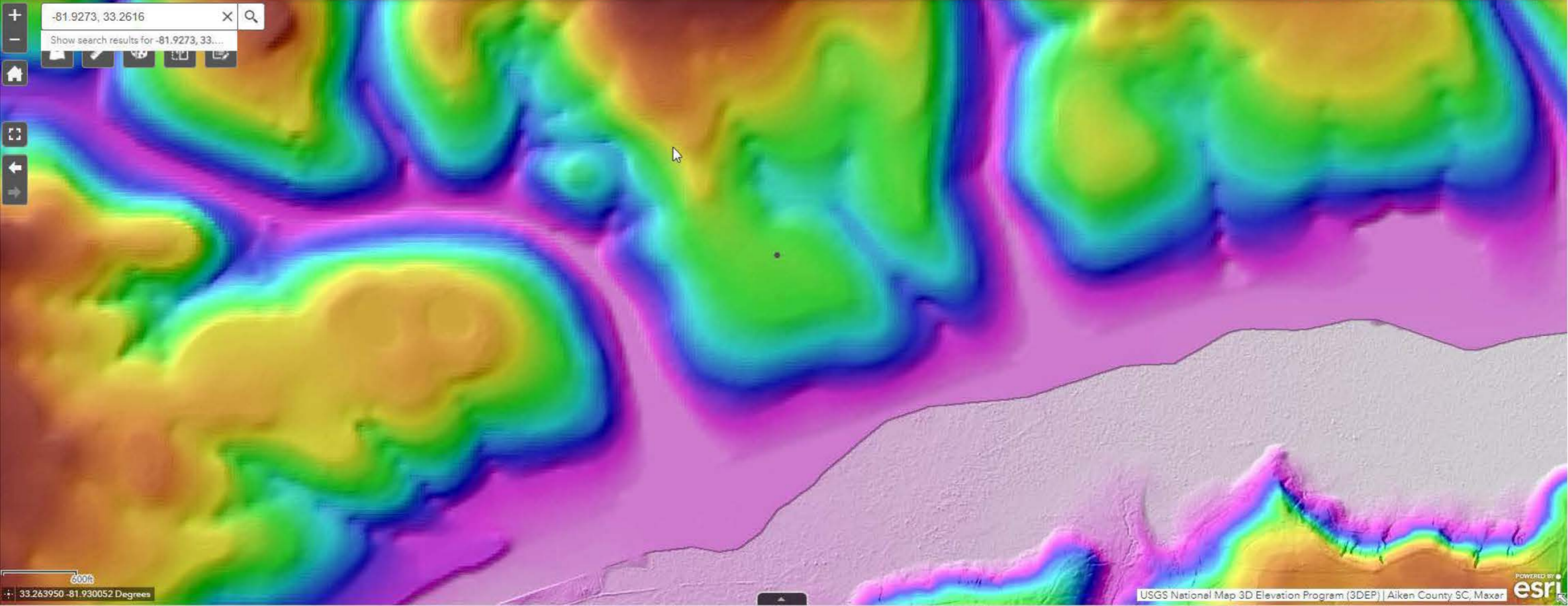
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/9/2022 at 4:16 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



- Alabama
- Florida
- Georgia
- Mississippi
- North Carolina
- Puerto Rico and U.S. Virgin Islands
- South Carolina
- Cumulative Impacts
- Field Data

Georgia Regulatory Viewer | IPaC | DigitalGlobe | USGS Stream Stats



+ -81.9273, 33.2616 X Q

Show search results for -81.9273, 33.2616

Navigation controls including a home button, a full-screen button, and directional arrows (up, down, left, right).



Surfacewater Features

- Streams
- Canals
- Pipelines
- Waterbodies
- Coastlines
- Catchments
- Hydrologic Units

Little McBean Creek

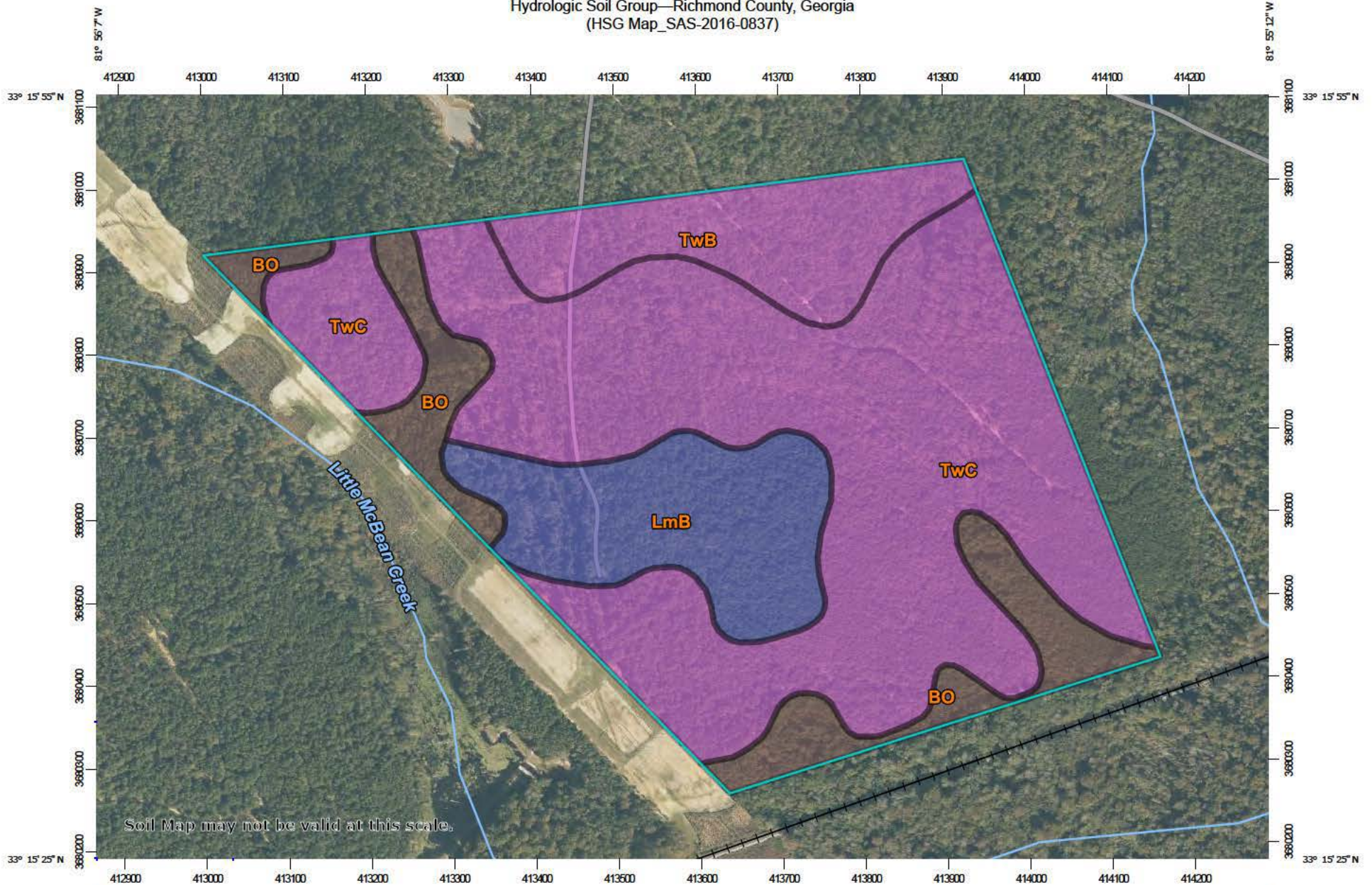
33.2616, -81.9273



McBean Creek

McBean

Hydrologic Soil Group—Richmond County, Georgia
(HSG Map_SAS-2016-0837)



Map Scale: 1:6,510 if printed on A landscape (11" x 8.5") sheet.

0 50 100 200 300 Meters


0 300 600 1200 1800 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84











MAP LEGEND

Area of Interest (AOI)









 Area of Interest (AOI)

Soils

Soil Rating Polygons





-  A
-  A/D
-  B
-  B/D
-  C
-  C/D
-  D
-  Not rated or not available

Soil Rating Lines


-  A
-  A/D
-  B
-  B/D
-  C
-  C/D
-  D
-  Not rated or not available

Soil Rating Points

-  A
-  A/D
-  B
-  B/D

-  C
-  C/D
-  D
-  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 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

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: Richmond County, Georgia
Survey Area Data: Version 15, Aug 30, 2021

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

Date(s) aerial images were photographed: Nov 1, 2019—Nov 3, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
BO	Bibb and Osier soils	B/D	15.3	11.9%
LmB	Lucy loamy sand, 1 to 5 percent slopes	B	18.5	14.5%
TwB	Troup fine sand, 1 to 5 percent slopes	A	15.0	11.7%
TwC	Troup fine sand, 5 to 10 percent slopes	A	78.9	61.8%
Totals for Area of Interest			127.7	100.0%

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

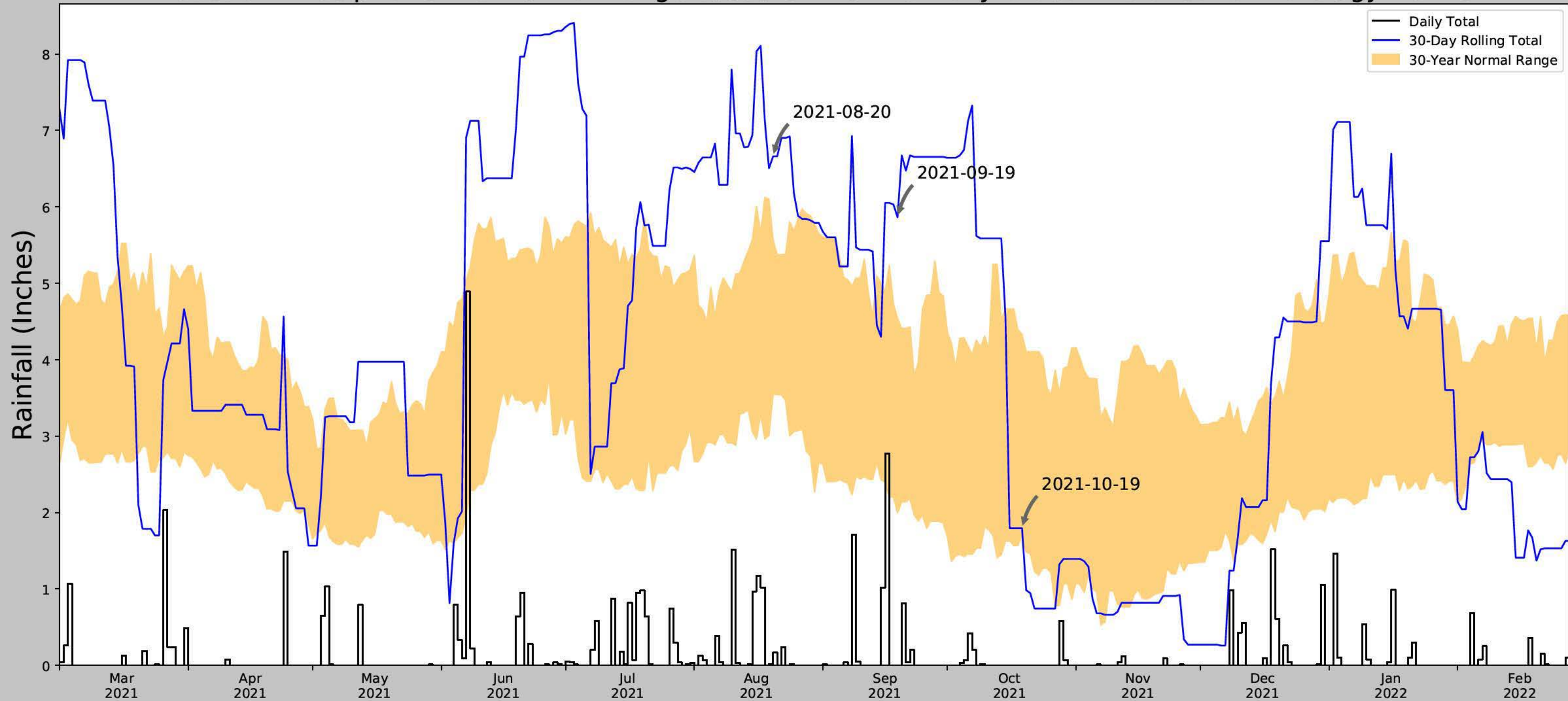
Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	33.2616, -81.9273
Observation Date	2021-10-19
Elevation (ft)	184.37
Drought Index (PDSI)	Moderate wetness
WebWIMP H ₂ O Balance	Wet Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2021-10-19	1.712598	4.330709	1.795276	Normal	2	3	6
2021-09-19	1.994882	4.539764	5.862205	Wet	3	2	6
2021-08-20	3.551969	5.567323	6.661418	Wet	3	1	3
Result							Wetter than Normal - 15

Figure and tables made by the
Antecedent Precipitation Tool
Version 1.0

Written by Jason Deters
U.S. Army Corps of Engineers

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
AUGUSTA BUSH FLD AP	33.3644, -81.9633	131.89	7.401	52.48	3.719	11353	90