



Alabama Department of Environmental Management
adem.alabama.gov

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Montgomery, Alabama 36130-1463
(334) 271-7700 ■ FAX (334) 271-7950

FINDING OF NO SIGNIFICANT IMPACT

Guntersville Water Board
Marshall County

SRF Project No. CS010270-11

July 16, 2025

The Alabama Department of Environmental Management has made **\$2,900,000** in financial assistance available to Guntersville Water Board using funds from the Clean Water State Revolving Fund (CWSRF) loan program. In accordance with State and Federal regulations that govern the program, the Alabama Department of Environmental Management has conducted a review to assess the potential impacts upon the environment that may result from implementation of this project.

Guntersville Water Board proposes to rehabilitate the collection system, the existing lift stations, and the treatment plant. The collection system improvements include new gravity sewer lines upstream of Lift Station 8, and investigation and rehabilitation of the collection system in basins LS6, LS7, LS9, LS10, Water Well Basin, and Railroad Station Basin to include manholes, laterals, and trunk sewers. The treatment plant improvements include additional screening facilities at the headworks, the addition of a third clarifier, two new UV disinfection systems, an aerobic digester, and a blower. The proposed project would prevent sanitary sewer overflows and improve reliability and efficiency for existing customers.

The Alabama Department of Environmental Management has determined that the proposed project will not have a significant adverse impact on the environment and consequently is herewith issuing a Finding of No Significant Impact (FONSI) to support the use of CWSRF funds for the construction of the proposed project. However, this decision may be reconsidered if significant adverse information concerning the potential environmental impacts of the proposed project is discovered. Attached is an Environmental Assessment that details the proposed project and its impact upon the environment.

Comments relevant to this project should be submitted in writing to Mrs. Kelly Bibb, SRF Section, Permits & Services Division, Alabama Department of Environmental Management, P.O. Box 301463, Montgomery, Alabama 36130-1463, no later than 30 days after the date of public notice. The Alabama Department of Environmental Management will not take formal action to proceed with the project without carefully evaluating any public comments opposing the project.

Sincerely,

Jeffery W. Kitchens
Acting Director

JWK/MDM/KMB/kbh



Birmingham Office
110 Vulcan Road
Birmingham, AL 35209-4702
(205) 942-6168
(205) 941-1603 (FAX)

Decatur Office
2715 Sandlin Road, S.W.
Decatur, AL 35603-1333
(256) 353-1713
(256) 340-9359 (FAX)

Coastal Office
1615 South Broad Street
Mobile, AL 36605
(251) 450-3400
(251) 479-2593 (FAX)

ENVIRONMENTAL ASSESSMENT

Guntersville Water Board Marshall County, AL

A. Proposed Facilities and Actions

Guntersville Water Board (GWB) proposes to rehabilitate the collection system, the existing lift stations, and the treatment plant. The collection system improvements include new gravity sewer lines upstream of Lift Station 8, investigation and rehabilitation of the collection system in basins LS6, LS7, LS9, LS10, Water Well Basin, and Railroad Station Basin, to include manholes, laterals, and trunk sewers, and new pumps at LS2. The treatment plant improvements include additional screening facilities at the headworks, the addition of a third final clarifier, two new UV disinfection systems, an aerobic digester, and a blower. The proposed project would prevent sanitary sewer overflows (SSOs) and improve reliability and efficiency for existing customers.

B. Existing Environment

The Guntersville Water Board is located in southeast Marshall County (State House District 26 and Senate District 9). The City of Guntersville is located approximately in the center portion of Marshall County, Alabama. Guntersville is situated approximately 10 miles northwest of Albertville, AL and approximately 30 miles southeast of Huntsville, AL. The project site is located within GWB's Eastlake Wastewater Treatment Plant (WWTP) and within the Sanitary Sewer Collection System. The WWTP is located due east of downtown Guntersville and adjacent to State Route 227/Lake Guntersville Park Drive (GPS coordinates; 34°20'49.99N 86°16'58.11"W). Guntersville can be found on the Guntersville quadrangle (83-SE) of the U.S. Geological Service topographical map survey, Tennessee Valley Authority mapping branch.

C. Existing Water Facilities

GWB owns and operates the wastewater system, which includes a sanitary sewer collection system containing between approximately 80,000 linear feet of older clay and iron mains and brick manholes in the older parts of town (north town, south town) and approximately 365,000 linear feet of newer PVC and DI mains in the surrounding areas, approximately 41 sanitary sewer lift stations, and the WWTP. The WWTP has a permitted (AL 0020150) capacity of 4.9 million gallons per day and discharges into the Tennessee River (Lake Guntersville). The treatment facilities generally consist of headworks with screening and grit removal, anoxic basins, aeration basins, final clarifiers, UV disinfection, aerobic digesters, and a centrifuge for dewatering waste solids. Class B dewatered solids are removed from the plant by a third party contracted by GWB. According to the U.S. Census Bureau, the City of Guntersville has a population of 8,874. GWSB currently has 3,528 sewer accounts.

D. Need for Proposed Facilities

The purpose of the proposed project is to improve reliability and efficiency for existing customers and to comply with the requirements of the Clean Water Act. The proposed project is needed because the deteriorated condition of the existing collection system is resulting in inflow & infiltration (I&I) that is leading to SSOs. In 2019 and 2020, Guntersville experienced a significant increase in SSOs, primarily resulting from I&I from heavier-than-average rainfall. GWB continued to investigate and implement improvements, but in 2021, the Tennessee River Keeper issued a letter with a notice of intent to sue for alleged violations of the Clean Water Act. In 2021, GWB negotiated with ADEM and the Tennessee River Keeper to avoid another Consent Order and a lawsuit. The resulting Agreement between GWB and the

Tennessee River Keeper required GWB to implement additional improvements in its sanitary sewer collection system and at the Eastlake WWTP.

One section of piping near Lift Station No. 8 (LS-8) has been determined to be undersized for the frequent wet weather events. This section of piping is located along HWY 431 and receives discharged from chicken processing plant often having detergents resulting in foaming out of the manhole in higher flow conditions. The basins most responsible for I&I and downstream SSOs are basins LS-6, LS-7, LS-9, LS-10, the Water Well Basin, and Railroad Station Basin. Lift Station No.2 has recurring SSOs during prolonged or severe wet weather and needs increased pumping capacity.

At the WWTP, the existing screen and grit removal equipment is unable to provide the necessary treatment for the increased flow, so new screen and grit removal equipment is needed. Additional air will be required to provide consistent treatment for the increased flows from the collection system, so additional blowers are needed. A third final clarifier is needed to adequately handle the increased flow rates. The design rate of the existing UV system has been exceeded; therefore, a new UV disinfection system will be required to handle and disinfect at the increased flow rate. An additional aerobic digester will be needed to accommodate increase loading and to provide treatment redundancy.

E. Proposed Facilities

Guntersville Water Board, in association with Krebs Engineering, has determined the following plan of improvement for their wastewater collection system and treatment plant including:

- Install a new gravity sewer line upstream of LS-8 to better convey the increased flows (from I&I and sudsy industrial discharge) to LS-8.
- Investigate and rehabilitate the collection system in Basins: LS-6, LS-7, LS-9, LS-10, Water Well Basin and Railroad Station Basin to identify and eliminate additional sources of I&I. Rehabilitation of the collection system in these basins would include manholes, laterals, and trunk sewers.
- Replace pumps at LS-2 in order to improve pumping capacity and alleviate SSOs.
- Add new screen and grit removal equipment in the unused channels of the headworks to provide additional capacity needed to treat peak flows and provide redundancy for maintenance and emergency outages.
- Install additional blowers to provide more air to the treatment process and provide redundancy for maintenance, emergency outages, and peak loading events.
- Install a third final clarifier to provide the additional treatment capacity to treat peak hydraulic flow rates and solids loading. The proposed final clarifier will operate in parallel with the existing final clarifiers.
- Install a new aerobic digester basin with additional blower capacity. This increased digester volume will provide GWB with the operational flexibility to treat the additional biological loading at the WWTP.
- Install two new UV disinfection systems to consistently treat the current flow rates, provide capacity to handle future flow rates, and ensure that GWB has redundancies needed to mitigate potential permit violations.

F. Alternatives Analysis

“No Action” Alternative

The “no action” alternative would require GWB to continue using their current facilities in their current state. If this action was taken, it is very likely that GWB would begin to violate their discharge permit limits and would continue to have SSO’s within the collection system. As stated earlier, GWSB is currently under an agreement with the Tennessee River Keepers and ADEM to address the collection system issues and increase the capacity of the WWTP. Due to these factors, the “no action” alternative is not an acceptable alternative.

Alternative No. 1 – Peracetic Acid Disinfection

One option that was evaluated for the Eastlake WWTP was to discontinue the use of UV for disinfection and construct a Peracetic Acid contact basin. Due to the existing arrangement of the WWTP site, this option would require Digester No. 5 to be converted to a contact basin. The loss in digestion volume will need to be replaced by constructing a new aerobic digester in another location on the WWTP site. It was determined that this approach would ultimately limit GWB’s ability to expand in the future to handle higher loading and resulting solids generation.

Alternative No. 2 – Membrane Bioreactor

One alternative in lieu of adding a third final clarifier would be to convert a portion of the existing aeration basins to a Membrane Bioreactor (MBR). MBR treatment systems utilize membrane filtration to separate the basin biomass from treated effluent. The effluent is then disinfected and discharged. While this option may reduce the need for a third final clarifier, it adds operational complexity and results in higher operation and maintenance costs.

Chosen Alternative

The chosen alternative will consist of the following improvements:

1. Wastewater Treatment Plant Improvements
 - a. Install new screen and grit removal equipment in unused headworks channel.
 - b. Install additional blower capacity for the biological treatment system.
 - c. Construct one (1) new final clarifier.
 - d. Construct one (1) new aerobic digester
 - e. Install two (2) new UV disinfection systems.
2. Collection System Improvements
 - a. Install a new larger gravity sewer line upstream of Lift Station 8 to convey the increased flows (from I&I) to Lift Station No. 8.
 - b. Investigate and rehabilitate the collection system in Basins: LS-6, LS-7, LS-9, LS-10, Water Well Basin and Railroad Station Basin to identify and eliminate additional sources of I&I. Rehabilitation of the collection system in these basins would include manholes, laterals, and trunk sewers.

G. Environmental Justice and External Civil Rights

EPA’s Office of Environmental Justice and External Civil Rights (OEJEER) enforces federal civil rights laws, including Title VI of the Civil Rights Act of 1964, that prohibit discrimination on the basis of race, color, or national origin (including on the basis of limited-English proficiency); sex; disability; or age by applicants for and recipients of federal financial assistance from EPA.

The Environmental Justice (EJ) map for the proposed project revealed that “Low Income” and “People of Color” EJ populations as high as 90-95 percentile and 60-70 percentile, respectively, are located in close proximity or within the proposed project area. The proposed wastewater system

improvements will benefit all people in areas serviced by the Guntersville Water Board, regardless of race or income.

H. Environmental Consequences; Mitigative Measures

The proposed project should not have an adverse environmental impact except for minimal impact during construction which will take place in areas which have been previously disturbed. Construction will result in a measurable amount of noise and dust and will be minimized through the development and implementation of Best Management Practices (BMPs).

I. Endangered Species and Critical Habitat

Review of the proposed work by the U.S. Fish and Wildlife Service found no federally listed special/critical habitats known to occur in the project area. It was determined that the project would have no significant impact on fish and wildlife resources. Should project changes be made, new plans are to be submitted for their review. Best Management Practices (BMPs) specific to the project are also recommended.

J. Historical and Archaeological

Review of proposed project work by the Alabama Historical Commission found no potential adverse impact of cultural resources. Project approval was granted upon the condition that the location, scope, and nature of construction activities remain as originally presented and occur within existing highway rights-of-way or previously disturbed areas. Should artifacts or archaeological features be encountered during execution of project activities, work should cease and the Alabama Historical Commission should be contacted immediately.

K. Wetland and Floodplains

The U.S. Army Corps of Engineers (USACE) was also solicited for comment. Their response indicated that they have no objections to the applicant receiving grant funds for the proposed work, and a Department of the Army permit may be required if the project involves works in wetland/waters of the U.S. To support that concurrence, the engineering consultant submitted a letter of self-certification, stating that there will be no impacts to wetlands or navigable water of the United States, and therefore, a permit will not be required.

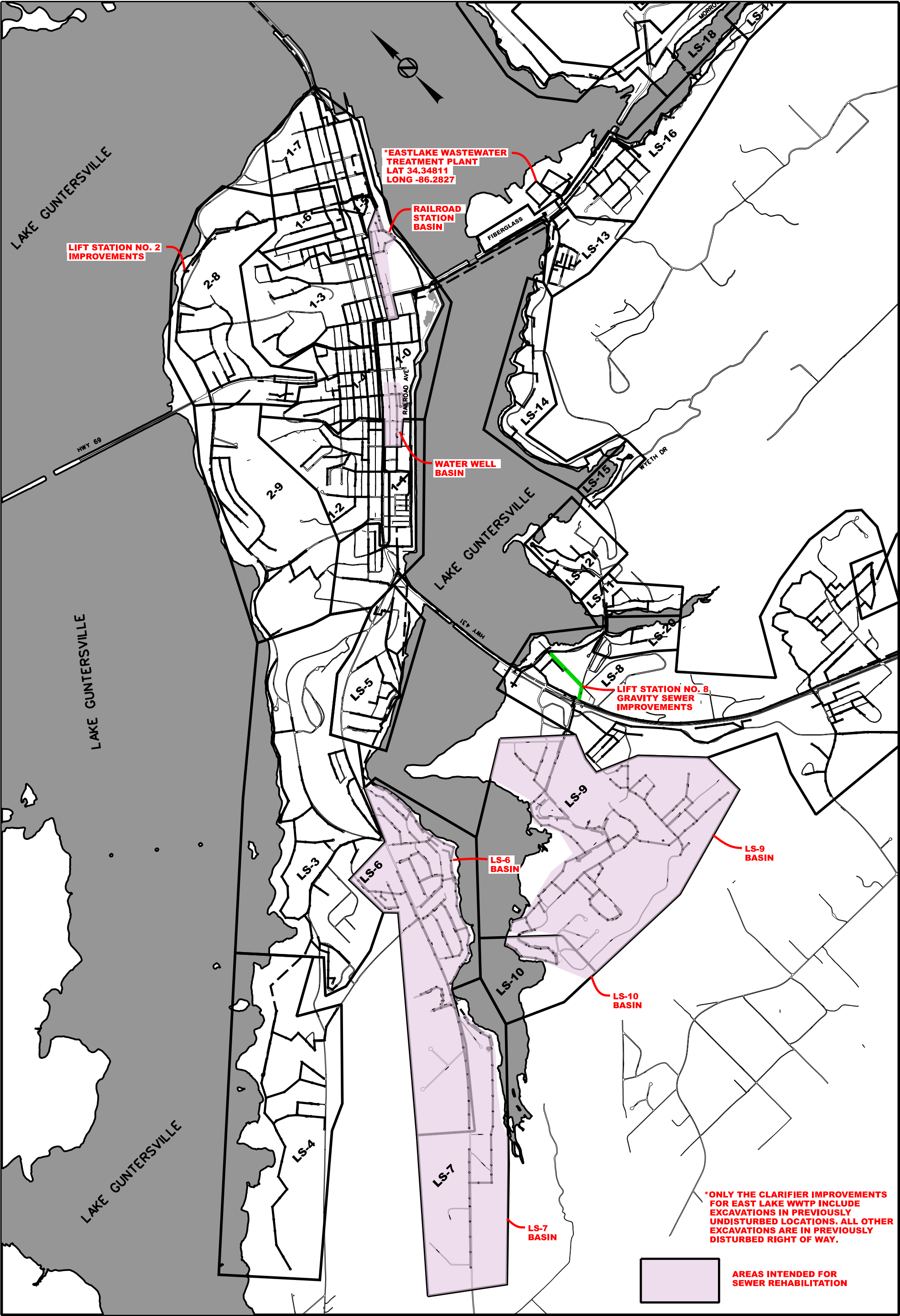
The proposed WWTP improvements are located outside of the 100-year flood zone. The proposed collection system improvements consist of repairs and/or investigations to existing infrastructure servicing residential developments adjacent to Lake Guntersville. Due to the local topography, a small portion of this existing infrastructure exists within the 100-year flood zone. In these areas, manholes are equipped with water-tight lids to limit the impact of flooding.

L. Public Participation: Sources Consulted

A Public Meeting was held at 6 pm on February 13, 2024, at the Guntersville Water Board Office located at 705 Blount Avenue, Guntersville, AL. Attendance was documented, the proposed project and environmental impacts were discussed, and no significant public objection was expressed.

Sources to be consulted about this project for information or concurrence include the following:

Alabama Department of:
Agriculture and Industries
Conservation and Natural Resources
Economic and Community Affairs (ADECA)
Public Health
State Soil and Water Conservation
Alabama Forestry Commission
Alabama Historical Commission
US Army Corps of Engineers
US Department of Interior – Fish and Wildlife Service
US Environmental Protection Agency
Marshall County Health Department



SHEET TITLE		COLLECTION SYSTEM IMPROVEMENTS	
SHEET NO.	PROJECT NO.		23004
	SCALE		NO SCALE
	DATE		12-14-2023
SRF-4			

GUNTERSVILLE WATER BOARD

ADEM STATE REVOLVING FUND APPLICATION

PROJECT CONCURRENCE

GUNTERSVILLE, AL





MAP SCALE 1" = 500'

50 0 500 1000 FEET

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0306D

FIRM FLOOD INSURANCE RATE MAP

MARSHALL COUNTY,
ALABAMA
AND INCORPORATED AREAS

PANEL 306 OF 485
(SEE LOCATOR DIAGRAM OR MAP INDEX FOR
FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
GUNTERSVILLE, CITY OF	010311	0306	D
MARSHALL COUNTY	010275	0306	D

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP REVISED
SEPTEMBER 16, 2011

MAP NUMBER
01095C0306D



State of Alabama
Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations (BFEs)** and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' NAVD 88. Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Universal Transverse Mercator (UTM) Zone 16. **Horizontal datum** was NAD 83, GRS80 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov/> or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, NNGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov/>.

Base map information shown on this FIRM was provided in digital format by the Marshall County Revenue Commission. This information was photogrammetrically compiled at a scale of 1" = 100', 1" = 200', or 1" = 400' from aerial photography dated 2006.

Based on updated topographic information, this map reflects more detailed and up-to-date **stream channel configurations** and **floodplain delineations** than those shown on the previous FIRM for this jurisdiction. As a result, the Flood Profiles and Floodway Data tables may reflect stream channel distances that differ from what is shown on the map. Also, the road to floodplain relationships for unrevised streams may differ from what is shown on previous maps.

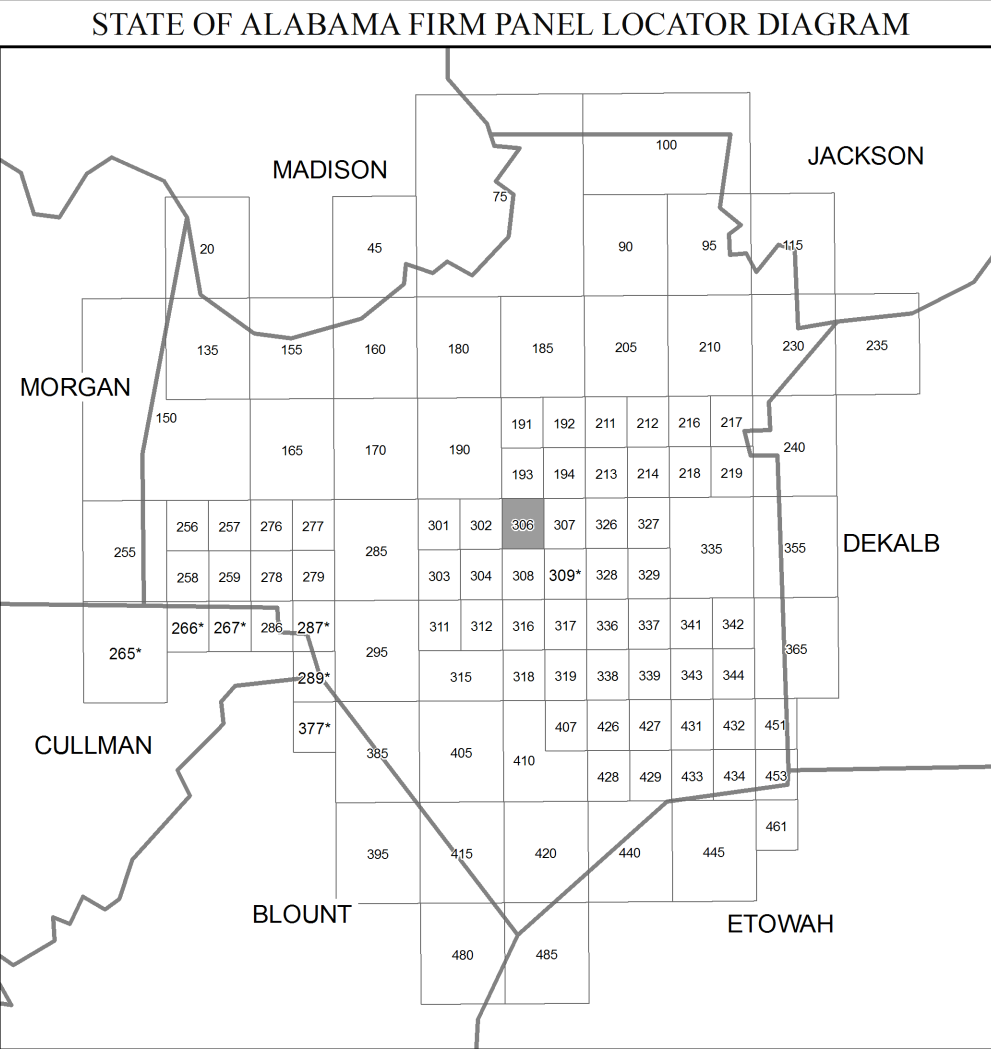
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Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

For information on available products associated with this FIRM visit the **FEMA Map Service Center** website at <http://msc.fema.gov>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the MSC website.

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The "profile baselines" represent the hydraulic modeling baselines that match the flood profiles in the FIS report. As a result of improved topographic data, the "profile baseline", in some cases, may deviate significantly from the channel centerline or appear outside the SFHA.



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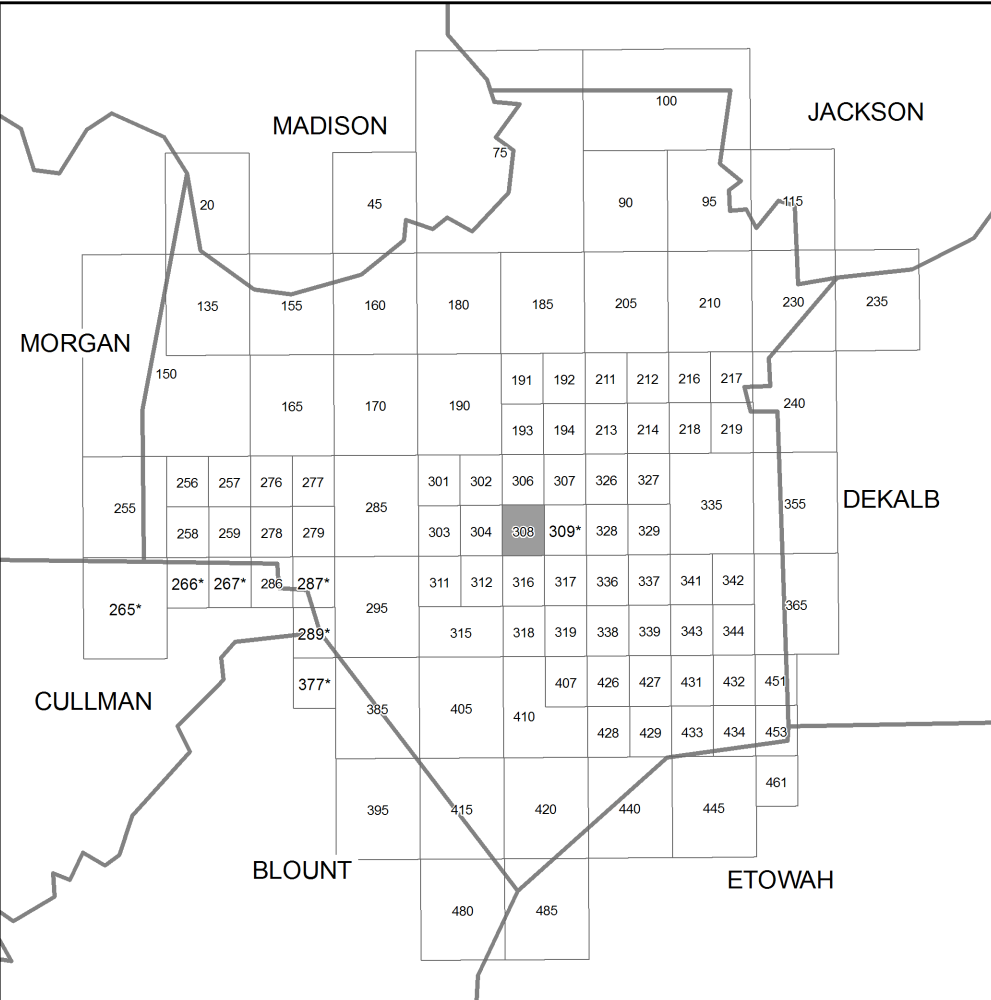
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STATE OF ALABAMA FIRM PANEL LOCATOR DIAGRAM



In cooperation with the Federal Emergency Management Agency (FEMA) and local communities in Alabama, this Flood Insurance Rate Map was developed by the Alabama Office of Water Resources in a digital statewide format to assist communities in their efforts to minimize the loss of property and life through effectively managing development in flood-prone areas. The State of Alabama has implemented a long-term approach to floodplain management to reduce the impacts of flooding. This is demonstrated by the State's commitment to map floodplain areas at the local level. As part of this effort, the Alabama Office of Water Resources is working closely with FEMA as a Cooperating Technical Partner to produce and maintain this digital FIRM.

LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

- ZONE A** No Base Flood Elevations determined.
- ZONE AE** Base Flood Elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently derelict. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X Areas determined to be outside the 0.2% annual chance floodplain.

ZONE D Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAS)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
- Base Flood Elevation line and value; elevation in feet*
- Base Flood Elevation value where uniform within zone; elevation in feet*

* Referenced to the North American Vertical Datum of 1988

- Cross section line
- Transect line
- Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
- 1000-meter Universal Transverse Mercator grid values, zone 16
- 5000-foot grid ticks: Alabama State Plane coordinate system, east zone (FIPSZONE 0101), Lambert Conformal Conic projection
- Bench mark (see explanation in Notes to Users section of this FIRM panel)
- River Mile

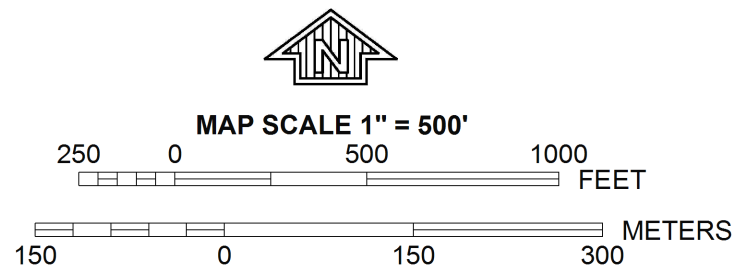
MAP REPOSITORY
Refer to listing of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTYWIDE
FLOOD INSURANCE RATE MAP
MARCH 18, 2008

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL
SEPTEMBER 16, 2011 - to update corporate limits, to change Special Flood Hazard Areas, to update map format, and to add roads and road names

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.



PANEL 0308D

FIRM FLOOD INSURANCE RATE MAP

MARSHALL COUNTY, ALABAMA AND INCORPORATED AREAS

PANEL 308 OF 485
(SEE LOCATOR DIAGRAM OR MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
GUNTERSVILLE, CITY OF	010311	0308	D
MARSHALL COUNTY	010275	0308	D

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MAP REVISED **MAP NUMBER**
SEPTEMBER 16, 2011 **01095C0308D**



State of Alabama
Federal Emergency Management Agency

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' NAVD 88. Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Universal Transverse Mercator (UTM) Zone 16. **Horizontal datum** was NAD 83, GRS80 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov/> or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, NNGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov/>.

Base map information shown on this FIRM was provided in digital format by the Marshall County Revenue Commission. This information was photogrammetrically compiled at a scale of 1" = 100', 1" = 200', or 1" = 400' from aerial photography dated 2006.

Based on updated topographic information, this map reflects more detailed and up-to-date **stream channel configurations** and **floodplain delineations** than those shown on the previous FIRM for this jurisdiction. As a result, the Flood Profiles and Floodway Data tables may reflect stream channel distances that differ from what is shown on the map. Also, the road to floodplain relationships for unvisited streams may differ from what is shown on previous maps.

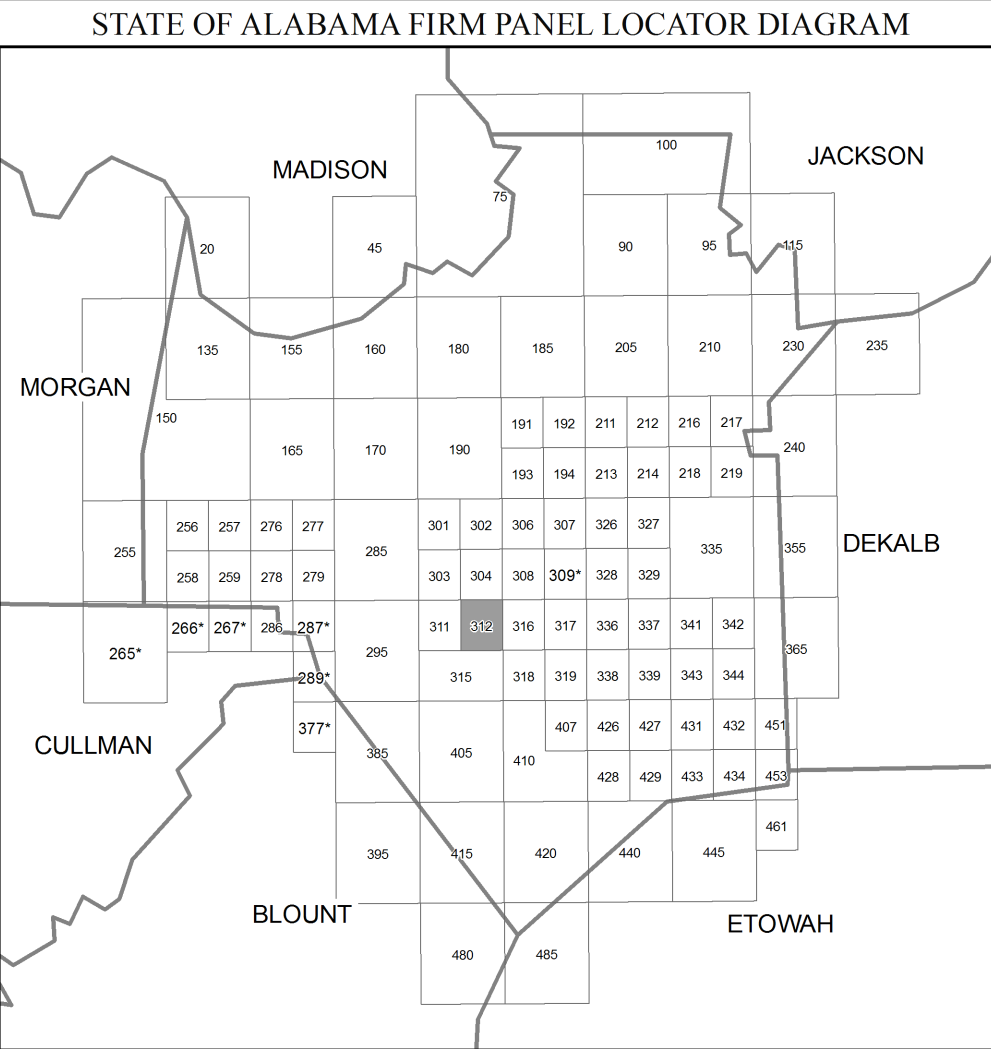
Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

For information on available products associated with this FIRM visit the **FEMA Map Service Center** website at <http://msc.fema.gov>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the MSC website.

If you have **questions about this map**, how to order products or the National Flood Insurance Program in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov>.

The "profile baselines" represent the hydraulic modeling baselines that match the flood profiles in the FIS report. As a result of improved topographic data, the "profile baseline", in some cases, may deviate significantly from the channel centerline or appear outside the SFHA.



In cooperation with the Federal Emergency Management Agency (FEMA) and local communities in Alabama, this Flood Insurance Rate Map was developed by the Alabama Office of Water Resources in a digital statewide format to assist communities in their efforts to minimize the loss of property and life through effectively managing development in flood-prone areas. The State of Alabama has implemented a long-term approach to floodplain management to reduce the impacts of flooding. This is demonstrated by the State's commitment to map floodplain areas at the local level. As part of this effort, the Alabama Office of Water Resources is working closely with FEMA as a Cooperating Technical Partner to produce and maintain this digital FIRM.

LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

- ZONE A** No Base Flood Elevations determined.
ZONE AE Base Flood Elevations determined.
ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently dismantled. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99 Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile, and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X Areas determined to be outside the 0.2% annual chance floodplain.

ZONE D Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% annual chance floodplain boundary
0.2% annual chance floodplain boundary
Floodway boundary
Zone D boundary
CBRS and OPA boundary
Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
Base Flood Elevation line and value; elevation in feet*
Base Flood Elevation value where uniform within zone; elevation in feet*
* Referenced to the North American Vertical Datum of 1988

- Cross section line
Transsect line
Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
1000-meter Universal Transverse Mercator grid values, zone 16
5000-foot grid ticks: Alabama State Plane coordinate system, east zone (FIPSZONE 0101), Lambert Conformal Conic projection
Bench mark (see explanation in Notes to Users section of this FIRM panel)
River Mile

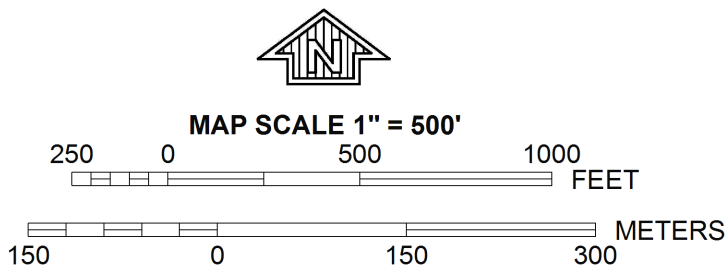
MAP REPOSITORY
Refer to listing of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTYWIDE
FLOOD INSURANCE RATE MAP
MARCH 18, 2008

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL
SEPTEMBER 16, 2011 - to update corporate limits, to change Special Flood Hazard Areas, to update map format, and to add roads and road names

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.



NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0312D

FIRM
FLOOD INSURANCE RATE MAP

**MARSHALL COUNTY,
ALABAMA
AND INCORPORATED AREAS**

PANEL 312 OF 485
(SEE LOCATOR DIAGRAM OR MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
GUNTERSVILLE CITY OF	010311	0312	D
MARSHALL COUNTY	010275	0312	D

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP REVISED **MAP NUMBER**
SEPTEMBER 16, 2011 **01095C0312D**

State of Alabama
Federal Emergency Management Agency



ALABAMA HISTORICAL COMMISSION

468 South Perry Street
Montgomery, Alabama 36130-0900

Lisa D. Jones
Executive Director
State Historic Preservation Officer

Tel: 334-242-3184
Fax: 334-242-1083

December 22, 2023

Jonah Taylor
Krebs Engineering, Inc.
312 Catoma Street Suite 100
Montgomery, AL 36104

Re: AHC 24-0315
Guntersville Water Board WWTP and Sanitary Sewer Collection System Improvements
Marshall County

Dear Mr. Taylor:

We concur with the above referenced project provided all construction activities will occur within **existing and previously disturbed** highway right-of-way and/or other previously disturbed areas. For the purposes of this letter, previous disturbance is defined as mechanical disturbance to either culturally sterile subsoil, or the maximum depth of the proposed undertaking. It should be noted that agricultural plowing does not typically meet this threshold of disturbance, nor do previously undisturbed portions of the ROW that require clearing of additional vegetation. Any area that is to be involved and does not fall into one of the above categories will require a cultural resource assessment by a professional archaeologist. Submit the resulting report to our office for review and determination prior to project initiation.

Consultation with the State Historic Preservation Office does not constitute consultation with Tribal Historic Preservation Offices, other Native American tribes, local governments, or the public. If archaeological materials are encountered during construction, the procedures codified at 36 CFR 800.13(b) will apply. Archaeological materials consist of any items, fifty years old or older, which were made or used by man. These items include but are not limited to, stone projectile points (arrowheads), ceramic sherds, bricks, worked wood, bone and stone, metal, and glass objects. The federal agency or the applicant receiving federal assistance should contact our office immediately. If human remains are encountered, the provisions of the Alabama Burial Act (*Code of Alabama* 1975, §13A-7-23.1, as amended; Alabama Historical Commission Administrative Code Chapter 460-X-10 Burials) should be followed. This stipulation shall be placed on the construction plans to ensure contractors are aware of it.

We appreciate your commitment to helping us preserve Alabama's historic archaeological and architectural resources. Should you have any questions, please contact Amanda McBride at 334.230.2692 or Amanda.McBride@ahc.alabama.gov. Have the AHC tracking number referenced above available and include it with any future correspondence.

Sincerely,

Lee Anne Hewett
Deputy State Historic Preservation Officer

LAH/AMH/nj



JG

My Am

2024-0029955

December 15, 2023

Mr. Bill Pearson, Field Supervisor
Alabama Ecological Services Field Office
U.S. Fish and Wildlife Service
1208-B Main Street
Daphne, AL 36526

Sent Via Email: alabama@fws.gov

**Re: Guntersville Water Board
Clean Water State Revolving Fund Project Review and Concurrence
Contract No. 23004**

Dear Mr. Pearson:

The Guntersville Water Board has made an application for an ADEM Clean Water State Revolving Fund Loan to fund a portion of the cost associated with various improvements to the sanitary sewer system in Guntersville, Alabama. As part of the application process, ADEM requires that we notify you concerning these projects. We have enclosed a project location map and project description for your reference.

We hereby request, on behalf of the Guntersville Water Board, that the Fish and Wildlife Service evaluate the effect of this project on any endangered or threatened species, or their critical habitats occurring in the project area.

We look forward to receiving your written concurrence with the proposed project. If you have any questions or need any additional information, please contact us.

Sincerely yours,

Krebs Engineering, Inc.

By Jonah Taylor
Jonah Taylor, P.E.
Associate

cc: Krebs File No. 23004



U.S. Fish and Wildlife Service
1208-B Main Street – Daphne, Alabama 36526
Phone: 251-441-5181 Fax: 251-441-6222

No federally listed species/critical habitat are known to occur in the project area. As described, the project will have no significant impact on fish and wildlife resources. IF PROJECT DESIGN CHANGES ARE MADE, PLEASE SUBMIT NEW PLANS FOR REVIEW. We recommend use of best management practices specific to your project (See <https://www.fws.gov/project/best-management-practices-alabama>).

William J. Pearson
William J. Pearson
Field Supervisor
Alabama Ecological Services Field Office

JAN 30 2024

Date

#3



Michelle Gilliam Jordan, FAICP | Executive Director

01/24/24

Bay Chandler, General Manager
Guntersville Water Board
705 Blount Avenue
Guntersville, Alabama 35976

CLEARINGHOUSE MEMO

RE: Marshal County: Guntersville Water Board: ADEM Clean Water State Revolving Fund (SRFF): Environmental review Document (EID): Project is to enable GWB to reduce SSO's and improve permit compliance at the Eastlake WWTP. Project will: upgrade selected trunk/collector lines; make improvements to lift station sites #6 & #8; and, upgrade processing ability at the Eastlake WWTP. Actions will all take place on previously disturbed public ROW or Utility property.

In accordance with Executive Order 12372 and State Executive Order Eight, The Clearinghouse of the Top of Alabama Regional Council of Governments' Board of Directors met on 01/23/24 and reviewed the above-referenced Action.

Per the submitted and review materials, the proposed sites/upgrades and construction are all either in/on Guntersville Water Board property/facilities, or other previously environmentally disturbed and documented areas. The submitted project will upgrade the system in terms of efficiency, treatment ability and insuring public health and safety standards. In addition to following all associated ADEM and Federal Guidelines, Construction Best Management Practices (CBMPs) will be required to be provided and maintained by the contractor and will be included in the Construction Contract Documents.

The Project is based on a professionally prepared engineering analysis, and this review assumes the above facts, and that the Project's associated EID finds that the execution of the above listed activities all meet ADEM/EPA environmental guidelines. The project's activities will upgrade the system's overall capacity, and enhance public health related reliability standards, both actions deemed desirable and necessary goals.

This project is consistent with the Guntersville Water Board's long-standing goal of providing reliable, well-maintained and efficient wastewater services at its facilities, and full compliance with applicable environmental agency regulations. We therefore find this project to be in conformance with, and support of, critical utility service needs and recognized goals for utility planning within the TARCOG region, and we concur with, and endorse this Guntersville Water Board wastewater system upgrade Project. If we can be of further assistance, please contact us.

Sincerely,

D. C. Schafer

Area-wide Clearinghouse

Cc: Jonah Taylor P.E., Krebs Engineering, Inc.

Tennessee Valley Authority Concurrence Letter

From: Falco, John Michael <jfalco@tva.gov>
Sent: Wednesday, February 21, 2024 2:34 PM
To: Danny Holmberg <danny.holmberg@krebseng.com>
Cc: janoh.taylor@krebseng.com
Subject: FW: Guntersville Projects Concurrence Letter

CITY OF GUNTERSVILLE CLEAN WATER STATE REVOLVING FUND (CWSRF) APPLICATION – MARSHALL COUNTY, ALABAMA

We have reviewed your February 12, 2024 update notifying TVA of the City of Guntersville's application for state revolving funds to rehabilitate, upgrades, and replace various sewer pipes.

Based on the information submitted, it appears that no TVA property is being impacted at sites Eastlake Wastewater Treatment Plant, Railroad Station Basin, and No. 8. Lift Station No. 2 appears to impact TVA property but has an existing sewer easement XGR-593S.

Water well basin and lift stations 6, 9, and 10 do not appear to impact or cross TVA based on the provided maps and plans.

Upon review, it has been determined that the Tennessee Valley Authority (TVA) jurisdiction does not extend over the proposed sites. As no changes are proposed to the daily intake or discharge of the facility, nor the intake pipe structures located within TVA jurisdiction, TVA has no objection to the work as proposed on the attached plans.

If the proposed replacements would require placement of an obstructions such as riprap, fill, or any new construction on TVA, then they would require approval from TVA in the form of 26a permit and/or require an easement.

We appreciate the opportunity to work with you and look forward to working with you in the future. If you have any additional questions or concerns, please feel free to contact me by email at jfalco@tva.gov.

Please note that our offices cannot accommodate walk-in visitors. Meetings are by appointment only. To more quickly begin the review of your request for a Section 26a permit or to learn more about TVA, please apply online or visit TVA.com. All hard copy applications should be mailed to: Tennessee Valley Authority, 400 West Summit Hill Drive, WT 11D-K, Knoxville, TN 37902.

John Falco
Program Manager, Central-West Region
Reservoir Land Use and Permitting



W. 256-932-6152 E. jfalco@tva.gov
3941 Brasher Chapel Road, Guntersville Alabama 35976

[Public Land Information Center \(tva.com\)](http://tva.com) is your single source for questions about public land topics. 1-800-882-5263 between 8 a.m. and 6 p.m. Eastern (7 a.m. and 5 p.m. Central) or email plic@tva.gov.

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DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, NASHVILLE DISTRICT
WESTERN REGULATORY FIELD OFFICE
2424 DANVILLE ROAD SW
SUITE N
DECATUR AL 35603

December 27, 2023

SUBJECT: File No. LRN-2015-00233; Guntersville Water Board, Tennessee River Mile 358.5 Left Bank, Marshall County, Alabama.

Jonah Taylor, P.E.
Krebs Engineering, Inc.
2100 River Haven Drive Suite 100
Birmingham, Alabama 35244

Dear Mr. Taylor:

This is in response to your December 18, 2023, request for our comments regarding the subject project.

The U.S. Army Corps of Engineers (USACE) has regulatory responsibilities pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403) and Section 404 of the Clean Water Act (33 U.S.C. 1344). Under Section 10, the USACE regulates all work in, or affecting, navigable waters of the U.S. Under Section 404, the USACE regulates the discharge of dredged and/or fill material into waters of the U.S. (33 CFR Part 328).

A review of the information provided indicates the subject activity may involve work in wetlands/waters of the U.S.; therefore, a Department of the Army permit may be required.

We understand the project proposal may not have specific design plans at this time, and this inquiry is an initial review to obtain grant funds. We have no objections to the applicant receiving grant funds for the proposal.

If you have questions regarding this matter, please contact me at the above address or telephone (256) 350-5620. Thank you for the opportunity to review and comment on this proposed project.

Sincerely,

A handwritten signature in blue ink, reading "Eric Sinclair", is positioned above the printed name.

William Eric Sinclair
Project Manager, West Branch
Regulatory Division
U.S. Army Corps of Engineers



June 30, 2025

Kelly Bib
ADEM – SRF Section
1400 Coliseum Boulevard
Montgomery, AL 36110

Re: Guntersville Water Board WWTP and Sanitary Sewer System Improvements
Project No. CS010270-11

Dear Ms. Bibb:

This letter serves as self-certification (USACE) for the Clean Water State Revolving Fund Project CS010270-11 for the Guntersville Water Board.

Krebs Engineering has reviewed the projects proposed within the associated Environmental Information Document and determined that they will not impact the wetlands or navigable waters of the United States. Furthermore, Krebs has discussed the scope of work with the United States Corps of Engineers (Decatur Field Office), who agreed that Krebs could perform a self-certification by reviewing Nationwide Permits Nos. 3 & 58.

If you need any more information, please let us know.

Sincerely yours,

Krebs Engineering, Inc.

By Kristoph A. Macon
Kristopher A. Macon, PE
Associate

cc:
Krebs File No. CS010270-11