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# Exhibit DD:
# Red River Parish Port Site Phase I Environmental Site Assessment

# Red River Parish Port Site Phase I Environmental Site Assessment Report

**Phase I Environmental Site Assessment**

Red River Parish Port Site
Red River Parish, Louisiana
for
**North Louisiana Economic Partnership**

December 18, 2023

GeoEngineers

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11923 Sun Belt Court
Baton Rouge, Louisiana 70809
225.293.2460

# Phase I Environmental Site Assessment

# North Louisiana Economic Partnership
# Red River Parish Port Site
# Red River Parish, Louisiana

**File No. 26810-002-00**

**December 18, 2023**

Prepared for:

North Louisiana Economic Partnership
333 Texas Street, Suite 411
Shreveport, Louisiana 71101

Attention: Mrs. Liz Pierre

Prepared by:

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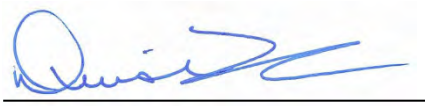

Denise Radaich, PE
Associate

SJD:PDR:HF:nl

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## ACRONYMS AND ABBREVIATIONS

AAI – All Appropriate Inquiries

AST – Aboveground Storage Tank

ASTM – ASTM International

AULs – activity and use limitations

bgs – below ground surface

CERCLA – Comprehensive Environmental Response, Compensation and Liability Act

CS – Cleanup Sites

DEDB – Drinking Water Wells Contaminated with EDB

EPA – U.S. Environmental Protection Agency

ERIC – Environmental Restoration Integrated Cleanup

ESA – Environmental Site Assessment

HIST LTANKS – Historic Leaking Tanks

LF – landfill

LQG – Large Quantity Generator

LUST – Leaking Underground Storage Tanks

MSL – mean sea level

NonGen – Non Generator

NPL – National Priority List

PCBs – polychlorinated biphenyls

RCRA – Resource Conservation and Recovery Act

REC – Recognized Environmental Condition

SQG – Small Quantity Generator

SWRCY – Solid Waste - Recycling

USGS – United States Geological Survey

UST – Underground Storage Tank

VOCs – volatile organic compounds

VSQG – Very Small Quantity Generator

## EXECUTIVE SUMMARY

This Phase I Environmental Site Assessment (ESA) was performed by GeoEngineers, Inc. (GeoEngineers) for an approximately 76 acres consisting of mostly agricultural land located at (31°57'31.90"N, 93°20'27.53"W) TBD Riverport Drive, Coushatta, Louisiana 71019 (the Site). The site is approximately 150 feet west of the intersection of LA 1 and Riverport Drive The Phase I ESA was performed on behalf of North Louisiana Economic Partnership (the "User").

GeoEngineers performed this Phase I ESA in conformance with the scope and limitations of ASTM International (ASTM) Standard E1527-21. The purpose of this Phase I ESA was to identify known environmental conditions or concerns associated with the Site, which include any recognized environmental conditions (RECs[1]) associated with the Site. RECs do not include *de minimis* conditions[2] that generally do not present a material risk of harm to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. The results of the Phase I ESA are summarized below.

### Site Description

The Site is a triangular-shaped, flat, parcel previously cleared for agriculture surrounded by tree lined irrigation ditches. Most of the Site is agriculture field. To the north, the Site is bordered by Riverport Drive, the adjacent property is wooded with an abandoned shed structure. To the east, the Site is bordered by pasture land. To the south, the Site is bordered by Driever Road, railroad track, and pasture land. To the west, the Site is bordered by a railroad track, LA-1, and additional pasture land. The Site location is shown in the Vicinity Map, Figure 1, and the Site layout is shown in the Site Layout, Figure 2.

### Site History

Historical resources indicate that the Site was agriculture land until the mid to late 1950s when the Site appears to have several buildings, possible farmhouses, and outbuildings, erected among the agriculture fields. These structures are no longer visible on the arial maps by 1982.

The areas surrounding the Site to the north, south, east, and west were also agricultural/pasture land much as they are today.

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[1] Recognized environmental conditions are defined in ASTM E 1527-21 as "(1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment."

[2] A *de minimis* condition is defined in ASTM E 1527-21 a condition related to a release that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. A condition determined to be a de minimis condition is not a recognized environmental condition nor a controlled recognized environmental condition.

## Environmental Records

GeoEngineers reviewed state and federal environmental databases to evaluate potential on and off-site sources of petroleum hydrocarbons and hazardous substances to the Site. The Site is not listed in environmental databases that were reviewed for this study.

## Conclusions

Based on the state and federal database assessment and November 29, 2023, site reconnaissance, performed by GeoEngineers, the reviewed results have revealed no RECs in connection with the Red River Parish Port Site.

It is possible that pesticides and herbicides were applied to the Site when it was developed for agriculture. Assuming that pesticides were applied in accordance with manufacturers recommendations, the historical use of pesticides at the Site does not constitute an REC.

GeoEngineers does not guarantee the Site is free of contamination or hazardous waste material due to unknown or latent conditions that may become evident in the future, either on the Site or on adjoining or nearby properties. In addition, Site conditions might change over time. Should additional surface, subsurface, chemical, or other data become available after the date of issue of this report, the findings, conclusions, and recommendations contained herein may have to be modified. Review by GeoEngineers of such additional information would be conducted upon receipt of a written request from the User.

## Limitations

This Executive Summary is provided as a summary only and should be used only in conjunction with a full review of the complete Phase I ESA report. GeoEngineers completed this work under the contract terms and conditions referenced in an email dated November 16, 2023 from Brandon Stelly.

**This Executive Summary should be used only in the context of the full report for which it is intended.**

# 1.0 INTRODUCTION

GeoEngineers performed a Phase I Environmental Site Assessment (ESA) for an approximately 78 acre parcel consisting of mostly agricultural land located at (31°57'31.90"N, 93°20'27.53"W) 200 Riverport Drive, Coushatta, Louisiana 71019 (The Site). The Phase I ESA was performed on behalf of North Louisiana Economic Partnership (the "User").

## 1.1. Phase I Scope of Services

The User is conducting environmental due diligence in connection with a possible lease of the Site. This Phase I ESA is intended to satisfy one of the requirements to permit the User to qualify for the innocent landowner, adjoining property owner, or bona fide prospective purchaser limitations on liability under the Comprehensive Environmental Response, Compensation and Liability Act ([CERCLA]; landowner liability protections). This Phase I ESA conforms to standards for *"all appropriate inquiries"* into the previous ownership and uses of the Site, as specified by the U.S. Environmental Protection Agency (EPA) in 40 Code of Federal Regulations (CFR) Part 312, and in accordance with good commercial or customary practice.

A Phase I ESA performed under the conditions of, and in accordance with, the guidelines outlined in ASTM International (ASTM) E1527-21 is recognized as meeting the due diligence provisions of the federal statute CERCLA; 42 unconfined compressive strength (USC) 9601(35)(B) and the state equivalents at the time this report was prepared. ASTM E 1527-21 satisfies the elements of the EPA All Appropriate Inquiry (AAI) rule, which establishes requirements that purchasers must meet to limit their environmental liability under CERCLA and qualify for liability protections, including the "Innocent Purchaser", "Bona Fide Prospective Purchaser" and "Contiguous Property Owner" liability defenses that are provided by CERCLA.

The goal of the Phase I ESA process is to identify the presence or absence of potential RECs. The term *REC* means the presence or likely presence of any hazardous substances or petroleum products in, on, or at a site: 1) due to any release to the environment, 2) under conditions indicative of a release to the environment, or 3) under conditions that pose a material threat of a future release to the environment. *De minimis* conditions are not RECs. A *de minimis* condition generally does not present a threat to human health or the environment and generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. This ESA complies with the general scope and limitations of the ASTM Standard Practice for ESAs: The Phase I ESA Process, Designation E1527-21. The following specific tasks were performed:

- A physical reconnaissance of the Site,
- Visual observation of adjoining properties or facilities,
- Review of historical land use of the Site back to the first developed use or 1940, whichever is earlier,
- Review of published information regarding the geology, hydrology, and topographical information of the Site,
- Review of reasonably ascertainable records and regulatory agency file database searches to identify federal and state-listed properties of known potential environmental concern located within the minimum search distances from the Site, as specified in ASTM E1527-21,
- Interviews with present and past Site owners, operators/managers, or occupants,

- Interviews with representatives of the state, county, or local regulatory agencies with knowledge of the Site,
- Evaluation of the information gathered from the sources listed above, and
- Preparation of this report.

This Phase I ESA does not address non-scope considerations as defined in Section 13 of ASTM E1527-21.

### 1.2. Special Considerations

Our scope of services did not include an environmental compliance audit or an evaluation for the presence of lead-based paint, toxic mold, polychlorinated biphenyls (PCBs) in light ballasts, radon, lead in drinking water, asbestos-containing building materials, urea-formaldehyde insulation in on-site structures or debris or other potentially hazardous building materials. Soil, groundwater, vapor, indoor air, or surface water sampling was not part of our Phase I ESA services.

## 2.0 SITE DESCRIPTION

The following sections describe the Site layout and use, Site ownership, properties adjoining the Site, and the Site physical setting.

### 2.1. Site Layout and Current Use

The Site is a triangular-shaped, flat, parcel previously cleared for agriculture surrounded by tree lined irrigation ditches. Most of the Site is agriculture field. To the north, the Site is bordered by Riverport Drive, the adjacent property is wooded with an abandoned shed structure. To the east, the Site is bordered by pasture land. To the south, the Site is bordered by Driever Road, railroad track, and pasture land. To the west, the Site is bordered by a railroad track, LA-1, and additional pasture fields. The Site location is shown in the Vicinity Map, Figure 1, and the Site layout is shown in the Site Layout, Figure 2.

### 2.2. Site Ownership

The Site is owned by Brian N. Byars, Sole Trustee of The J.W. Coats Testamentary Trust according to an ERIS Chain of Title and Lien Search dated December 15, 2023.

### 2.3. Adjoining Properties

Adjoining properties are defined as those sharing borders with the Site or separated only by a street, alley, or other public right-of-way (ROW). Uses of adjacent or nearby properties are listed below:

**TABLE 2.1 ADJOINING PROPERTIES**

| Direction | Occupancy/Use |
|---|---|
| North | Vacant land adjacent to Red River to the north with old shed/barn |
| East | Pasture land |
| South | Vacant with adjacent railroad, LA Hwy 1 and Driever Rd |
| West | New Hope Baptist Church 3, railroad, LA Hwy 1 |

### 2.4. Physical Setting

The physical setting of the Site is summarized below:

**TABLE 2.2 PHYSICAL SETTING**

| | Description | Source |
|---|---|---|
| Elevation and Topography | The Site is approximately 130 feet above mean sea level (MSL). Local topography slopes to the northeast. | United States Geological Survey (USGS) Hanna, Louisiana 7.5 Minute topographic map (2021) |
| Wetlands | The Site has an approximately 1ac Freshwater Forested/Shrub wetland on the northwest side of the property and a drainage ditch on the eastern boundary. | United States Fish and Wildlife Service (USFWS) National Wetland Inventory |
| Floodplain | The Site is not mapped in the 100-year flood zone. | Federal Emergency Management Agency (FEMA) |
| Soil Type | Soil at the Site is mapped as Coushatta silt loam, Coushatta silty clay loam, & Latanier clay. Characterized by gray and brown silt, silty clay, some very fine sand, reddish brown along the Red River. | National Cooperative Soil Survey at the Natural Resources Conservation Service (NRCS) |
| Geology | The Site is underlain by undifferentiated sediments of the Phanerozoic/Cenozoic/Quaternary/Holocene eras. | USGS |
| Groundwater | The Site does not have any mapped wells. | Louisiana Department of Natural Resources (DNR), Office of Conservation. |

## 3.0 SITE RECONNAISSANCE

A Site reconnaissance was performed on November 29, 2023 by GeoEngineers staff Steven David and Hunter Falcon. Representative photographs from the Site reconnaissance are provided in Appendix A.

### 3.1. Methods and Limitations

The Site reconnaissance included an inspection at the perimeter of the Site and areas within the Site boundaries.

### 3.2. Observations Summary

The following table summarizes observations made during the Site reconnaissance:

**TABLE 3.1 SITE RECONNAISSANCE SUMMARY**

| Observation | Observed (Yes/No)? | Comments |
|---|---|---|
| Structures (existing) | Yes | Collapsed mobile home on East side |
| Structures (evidence of former) | Yes | old fireplace on East side |
| Aboveground Storage Tanks (ASTs) | No | |

| Observation | Observed (Yes/No)? | Comments |
|---|---|---|
| Underground Storage Tanks (USTs) | No | |
| Drums or Other Containers | No | |
| Leaks, Spills, or Releases Around ASTs, USTs, and/or Chemical Storage Areas | No | |
| Stained or Corroded Floors, Walls, or Drains | No | |
| Pipes of Unknown Origin or Use | No | |
| Hydraulic Lifts or Elevators | No | |
| Transformers | Yes | Two overhead transformers on West side; one overhead transformer on offsite adjacent property to the North |
| Hazardous Waste Disposal Areas | No | |
| Uncontained Debris, Refuse, or Unidentified Waste Materials | Yes | Debris piles located: one on east and two on west side |
| Standing Water or Other Liquids | No | |
| Floor Drains or Sumps | No | |
| Catch Basins, Dry Wells, and Storm Water Drainage | No | |
| Pits/Ponds/Lagoons | No | |
| Waste or Wastewater Discharges | No | |
| Oil/Water Separators | No | |
| On-Site Septic System | No | |
| Unusual Odors | No | |
| Stressed Vegetation/Stained Soil | No | |
| Fill Material | No | |
| Wells | No | |
| Other Observations | Yes | Offsite observations: above ground propane tank on west side near New Hope Baptist Church; debris pile directly behind church |

### 3.3. Site Reconnaissance Observations Discussion

The Site is a triangular-shaped, flat, parcel previously cleared for agriculture surrounded by tree lined irrigation ditches. Most of the Site is agriculture field. To the north, the Site is bordered by Riverport Drive, the adjacent property is wooded with an abandoned shed structure. To the east, the Site is bordered by pastureland. To the south, the Site is bordered by Driever Road, railroad track, and additional pastureland. To the west, the Site is bordered by a railroad track, LA-1, and additional pastureland. Access roads are present to the Site. Three (3) pole-mounted transformers are present near the north and west sides of the Site. No obvious signs of insulating oil leakage were observed near the transformers.

### 3.4. Conclusions of Site Reconnaissance

No RECs were identified during the Site reconnaissance.

## 4.0 SITE HISTORY

GeoEngineers reviewed data sources, including topographic maps, fire insurance maps, city directories, aerial photography, and historical building permits to ascertain historical uses and occupants of the Site and vicinity. Copies of historical resources are included in Appendix C.

### 4.1. Aerial Photography

Aerial photographs for the years 1940, 1950, 1959, 1974, 1982, 1994, 1998, 2004, 2005, 2006, 2007, 2009, 2010, 2013, 2015, 2017, 2019, 2021, and 2022 were reviewed. The 1950 through 1974 images show that the Site had several structures, but the structures are no longer visible in the 1982 image as it remains today.

### 4.2. Topographic Maps

USGS topographic maps for the years 1938, 1947, 1957, 1989, 1992, 2015, and 2020 were reviewed. The 1938 to 1992 topographic maps show between two (2) and six (6) structures on the Site. The settlement of Hanna, consisting of several homes, businesses, churches and school lie to the northwest adjacent properties. The property east, west and south is shown as agriculture land with structures.

### 4.3. Fire Insurance Maps

Historical fire insurance maps are not available for the Site.

### 4.4. City Directories

City directories for the Site area were available for the years 1965, 1970, 1974, 1980, 1990-91, 1995- 96, 1999-00, 2003, 2008, 2012, 2016, 2020, and 2022. No listings for the Site address were located.

Off-site adjacent parcel directory listings include residential listings only.

No other listings indicative of historical uses including potential storage, use, and releases of hazardous substances were noted.

### 4.5. Interviews

GeoEngineers was unable to interview any individuals knowledgeable about the Site to obtain information about the Site, particularly regarding possible RECs in connection with the Site.

### 4.6. User Provided Information

ASTM E1527-21 defines “User” as the party seeking to use Practice E1527-21 to complete an ESA of the Site. ASTM E1527-21 specifies that certain tasks associated with identifying potential RECs at the Site should be performed by the User and provided to the Environmental Professional (i.e., User Responsibilities). Accordingly, GeoEngineers provided a Questionnaire to Mr. Travis Tyler with the Red River Parish Port, requesting the above information. Responses to the questionnaire are presented below, in Table 4.1. User-provided information is included in Appendix B.

**TABLE 4.1 USER INFORMATION**

| Inquiry | User Provided Information |
|---|---|
| Environmental Cleanup Liens, AUL, Title Records | The User is not aware of any environmental cleanup liens against the Site that are filed or recorded under federal, tribal, state, or local law and is not aware of any activity and use limitations (AULs) that are in place at the Site or have been filed or recorded under federal, tribal, state, or local law. |
| Specialized User Knowledge | The User indicated that to their knowledge the Site has only been used for row crop agriculture, and standard farming practices. |
| Commonly Known or Reasonably Ascertainable Information | The User indicated the Site has only been used for row crop agriculture, and standard farming practices. |
| Valuation Reduction for Environmental Issues | The User did not provide information indicating a valuation reduction for environmental issues. |
| Reason for Performing Phase I ESA | This Phase I ESA was performed for due diligence purposes. |

## 4.7. Previous Reports Provided by User

The User did not provide any previous reports.

## 4.8. Oil Well Records

GeoEngineers reviewed the Environmental Risk Information Services (ERIS) Physical Setting Report to identify oil wells in the Site vicinity. There are 31 wells identified in the Site vicinity, none of which are on the Site.

## 4.9. Conclusions from Site History Review

Historical resources indicate that the Site was agricultural land with residential properties, and since at least as early as 2015 has been strictly agricultural/pastureland with no residences.

The areas surrounding the Site to the north, east and west were also undeveloped or used for agricultural/pastureland purposes with residences.

## 4.10. Environmental Records

This section presents the results from the environmental records review. These records were reviewed to assess potential environmental concerns for the Site and, when applicable, surrounding properties.

## 4.11. Standard Record Sources

GeoEngineers reviewed the results of a search of standard environmental records sources as required by ASTM Standard E1527-21. ERIS provided results of a regulatory agency database search in its November 26, 2023 report. GeoEngineers reviewed that report for information pertaining to storage and/or reported releases of hazardous substances and petroleum products on the Site and on surrounding properties that may affect the Site. The ERIS report is included in Appendix C.

The database search information has been divided into two (2) subcategories: 1) state and tribal records, and 2) federal records. All properties listed in the report that do not have sufficient information for mapping their location are called orphan sites and are listed separately. Table 4.2 lists selected environmental databases and the number of facilities found within the search distances recommended in the

ASTM E1527-21 standard for each standard environmental database. Table 4.2 lists only select databases; however, the ERIS report includes reviews of all databases required by ASTM E1527-21.

**TABLE 4.2 ENVIRONMENTAL DATABASE SEARCH RESULTS**

| Database | Search Distance (miles) | Number of Listed Facilities |
|---|---|---|
| **STATE AND TRIBAL RECORDS** | | |
| Historic Underground Storage Tank (UST) | 0.25 | 0 |
| Above Ground storage Tank (AST) | 0.25 | 0 |
| UST | 0.25 | 0 |
| Historic Leaking Tanks (HIST LUST) | 0.5 | 0 |
| Leaking Underground Storage Tanks (LUST) – LA and EPA | 0.5 | 0 |
| Federal Brownfields | 0.5 | 0 |
| Recycling | 0.5 | 0 |
| Drycleaners/Priority Cleaners | 0.25 | 0 |
| Historic Landfill (SWF/LF) | 0.5 | 0 |
| Historic State Hazardous Waste | 0.5 | 0 |
| State Hazardous Waste | 0.5 | 0 |
| Spills – Louisiana | 0.125 | 0 |
| Voluntary Cleanup Program – Louisiana | 0.5 | 0 |
| **FEDERAL RECORDS** | | |
| National Priority List (NPL) | 1.0 | 0 |
| Resource Conservation and Recovery Act (RCRA) Small Quantity Generator (SQG) | 0.25 | 0 |
| RCRA Large Quantity Generator (LQG) | 0.25 | 0 |
| RCRA Very Small Quantity Generator (VSQG) | 0.25 | 0 |
| RCRA Non Generator (NonGen) | 0.25 | 0 |

### 4.11.1. Site Records

The Site is not listed in the environmental databases that were reviewed for this study.

### 4.11.2. Federal, State, and Local Records

The Site is not listed in the environmental databases that were reviewed for this study.

## 4.12. Environmental Liens and Activity and Use Limitations (AULs)

The Site is not listed in the environmental databases that were reviewed for this study.

## 5.0 FINDINGS AND CONCLUSIONS

GeoEngineers performed this Phase I ESA in general conformance with the scope and limitations of ASTM Standard E1527-21 for the Site. Any exceptions to, or deviations from, this practice are described in Section 7 of this report.

The November 29, 2023 site reconnaissance did not identify RECs for the Site.

The Site is a triangular-shaped, flat, parcel previously cleared for agriculture surrounded by tree lined irrigation ditches. Most of the Site is now fallow agriculture field. To the north, the Site is bordered by Riverport Drive, the adjacent property is wooded with an abandoned shed structure. To the east, the Site is bordered by additional agriculture fields. To the south, the Site is bordered by Driever Road, and additional agriculture fields. To the west, the Site is bordered by a railroad track, LA-1, and additional agriculture fields.

Historical records show the Site contained structures from at least 1938 to possibly as late as 2015.

GeoEngineers reviewed state and federal environmental databases to evaluate potential on and off-site sources of petroleum hydrocarbons and hazardous substances to the Site. The Site is not listed in environmental databases that were reviewed for this study.

This assessment has revealed no RECs in connection with the Site.

GeoEngineers does not guarantee the Site is free of contamination or hazardous waste material due to unknown or latent conditions that may become evident in the future, either on the Site or on adjoining or nearby properties. In addition, Site conditions might change over time. Should additional surface, subsurface, chemical, or other data become available after the date of issue of this report, the findings, conclusions, and recommendations contained herein may have to be modified. Review by GeoEngineers of such additional information would be conducted upon receipt of a written request from the User.

## 6.0 DEVIATIONS AND DATA GAPS

GeoEngineers did not deviate from the ASTM E1527-21 standard in conducting this assessment with the exception of the following: historical site records prior to 1961 were not obtained. Based on the undeveloped condition of the Site in 1961 this data failure is not considered a significant data gap for the Phase I ESA.

## 7.0 LIMITATIONS AND GUIDELINES FOR USE

These Limitations provide information to help you manage your risks with respect to the use of this report. Some clients, design professionals and contractors may not recognize that the geoscience practices (geotechnical engineering, geology, and environmental science) are far less exact than other engineering and natural science disciplines. This lack of understanding can create unrealistic expectations that could lead to disappointments, claims and disputes. GeoEngineers includes these explanatory “limitations” provisions in our reports to help reduce such risks. Please confer with GeoEngineers if you are unclear how these “Report Limitations and Guidelines for Use” apply to your project or site.

## 7.1. Standard Limitations

This Phase I ESA has been prepared for use by North Louisiana Economic Partnership. GeoEngineers has performed this Phase I ESA for the property at 31°57'31.90"N, 93°20'27.53"W) TBD Riverport Drive, Coushatta, Louisiana 71019 in general accordance with the contract terms and conditions referenced in Proposal No. 26810-002-00 dated October 9, 2023 and signed by Liz Pierre on November 13, 2023, and ASTM E 1527-21, Standard Practice for Phase I ESAs and EPA's Federal Standard 40 CFR Part 312 "Standards and Practices for All Appropriate Inquiries (AAI)." This report has been prepared for the exclusive use of North Louisiana Economic Partnership. This report is not intended for use by other entities, and the information contained herein is not applicable to other properties. Our report was prepared for the exclusive use of our Client and their affiliated entities. No other party may rely on the product of our services unless we agree in advance to such reliance in writing. This is to provide our firm with reasonable protection against open-ended liability claims by third parties with whom there would otherwise be no contractual limits to their actions.

Within the limitations of scope, schedule and budget, our services have been executed in accordance with the generally accepted environmental science practices for Phase I ESAs in this area at the time this report was prepared. No warranty or other conditions express or implied, should be understood.

Any electronic form, facsimile, or hard copy of the original document (email, text, table, and/or figure), if provided, and any attachments are only a copy of the original document. The original document is stored by GeoEngineers, Inc. and will serve as the official document of record.

## 7.2. Special Limitations

GeoEngineers structures our services to meet the specific needs of our clients. For example, an environmental site assessment study conducted for a property owner or lessee may not fulfill the needs of a prospective purchaser of the same property. Because each environmental study is unique, each environmental report is unique, prepared solely for the specific client and project property. This report should not be applied for any purpose or project except the one originally contemplated. GeoEngineers considered a number of unique, project-specific factors when establishing the scope of services for this project and report. Unless GeoEngineers specifically indicates otherwise, do not rely on this report if it was:

- Not prepared for you,
- Not prepared for your project,
- Not prepared for the specific property explored, or
- Completed before important project changes were made.

If important changes are made to the project or subject property after the date of this report, GeoEngineers should be retained to review our interpretations and recommendations and to provide written modifications or confirmation, as appropriate.

GeoEngineers makes no warranties or guarantees regarding the accuracy or completeness of information provided or compiled by others. The information presented in this report is based on the above-described research and a single recent site visit. GeoEngineers has relied upon information provided by others in our description of historical conditions and in our review of regulatory databases and files. The available data do not provide definitive information regarding all past uses, operations or incidents at the subject property or adjacent properties.

No ESA can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. Performance of an ESA study is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with a property. There is always a potential that areas with contamination that were not identified during this Phase I ESA exist at the subject property or in the study area. Further evaluation of such potential would require additional research, subsurface exploration, sampling and/or testing.

Some substances may be present in the vicinity of the subject property in quantities or under conditions that may have led, or may lead, to contamination of the subject property, but are not included in current local, state, or federal regulatory definitions of hazardous substances or do not otherwise present current potential liability. GeoEngineers cannot be responsible if the standards for appropriate inquiry, or regulatory definitions of hazardous substance, change or if more stringent environmental standards are developed in the future.

This environmental report is based on conditions that existed at the time the study was performed. The findings and conclusions of this report may be affected by the passage of time (for example, a Phase I ESA report is typically applicable for 180 days), by events such as a change in property use or occupancy, or by natural events, such as floods, earthquakes, slope instability or groundwater fluctuations. If more than six months have passed since issuance of our report or work product, or if any of the described events may have occurred, please contact GeoEngineers before applying this report so that we may evaluate whether changed conditions affect the continued reliability or applicability of our conclusions and recommendations.

The equipment, techniques and personnel used to perform an environmental study differ significantly from those used to perform a geotechnical or geologic study and vice versa. For that reason, a geotechnical engineering or geologic report does not usually relate any environmental findings, conclusions, or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. Similarly, environmental reports are not used to address geotechnical or geologic concerns regarding a specific project.

GeoEngineers' Scope of Work specifically excludes the investigation, detection, prevention, or assessment of the presence of Biological Pollutants. Accordingly, this report does not include any interpretations, recommendations, findings, or conclusions regarding the detecting, assessing, preventing, or abating of Biological Pollutants and no conclusions or inferences should be drawn regarding Biological Pollutants, as they may relate to this project. The term "Biological Pollutants" includes, but is not limited to, molds, fungi, spores, bacteria, and viruses, and/or any of their byproducts. If Client desires these specialized services, they should be obtained from a consultant who offers services in this specialized field.

We appreciate the opportunity to be of service to North Louisiana Economic Partnership. Please call if you require more information or have questions regarding this report.

## 8.0 REFERENCES


ASTM International (ASTM). 2021. ASTM E E1527-21. Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM International, West Conshohocken, Pennsylvania.

Environmental Risk Information Services, a division of Glacier Media Inc., Topographic Maps Report, Order Number 23112100939, November 22, 2023.

Environmental Risk Information Services, a division of Glacier Media Inc., Physical Setting Report, Order Number 23112100939, November 22, 2023.

Environmental Risk Information Services, a division of Glacier Media Inc., Fire Insurance Maps Report, Order Number 23112100939, November 22, 2023.

Environmental Risk Information Services, a division of Glacier Media Inc., City Directory Report, Order Number 23112100939, November 30, 2023.

Environmental Risk Information Services, a division of Glacier Media Inc., Chain of Title Report, Order Number 23112100939, December 15, 2023.

Environmental Risk Information Services, a division of Glacier Media Inc., Chain of Title and Lien Searches Report, Order Number 23112100939, December 15, 2023.

Environmental Risk Information Services, a division of Glacier Media Inc., Historical Aerials Report, Order Number 23112100939, November 29, 2023.

Environmental Risk Information Services, a division of Glacier Media Inc., Database Report, Order Number 23112100939, November 26, 2023.

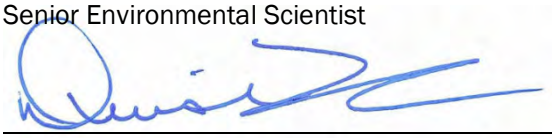
## 9.0 STATEMENT AND SIGNATURES OF ENVIRONMENTAL PROFESSIONAL

**"I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Sec. 312.10 of 40 CFR Part 312."***

**"I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312."***

**A person who does not qualify as an Environmental Professional may assist in the conduct of all appropriate inquiries in accordance with ASTM E 1527-13, if such person is under the supervision or responsible charge of a person meeting the definition of an environmental professional when conducting such activities.*

Steven David
Senior Environmental Scientist



Denise Radaich, PE
Associate

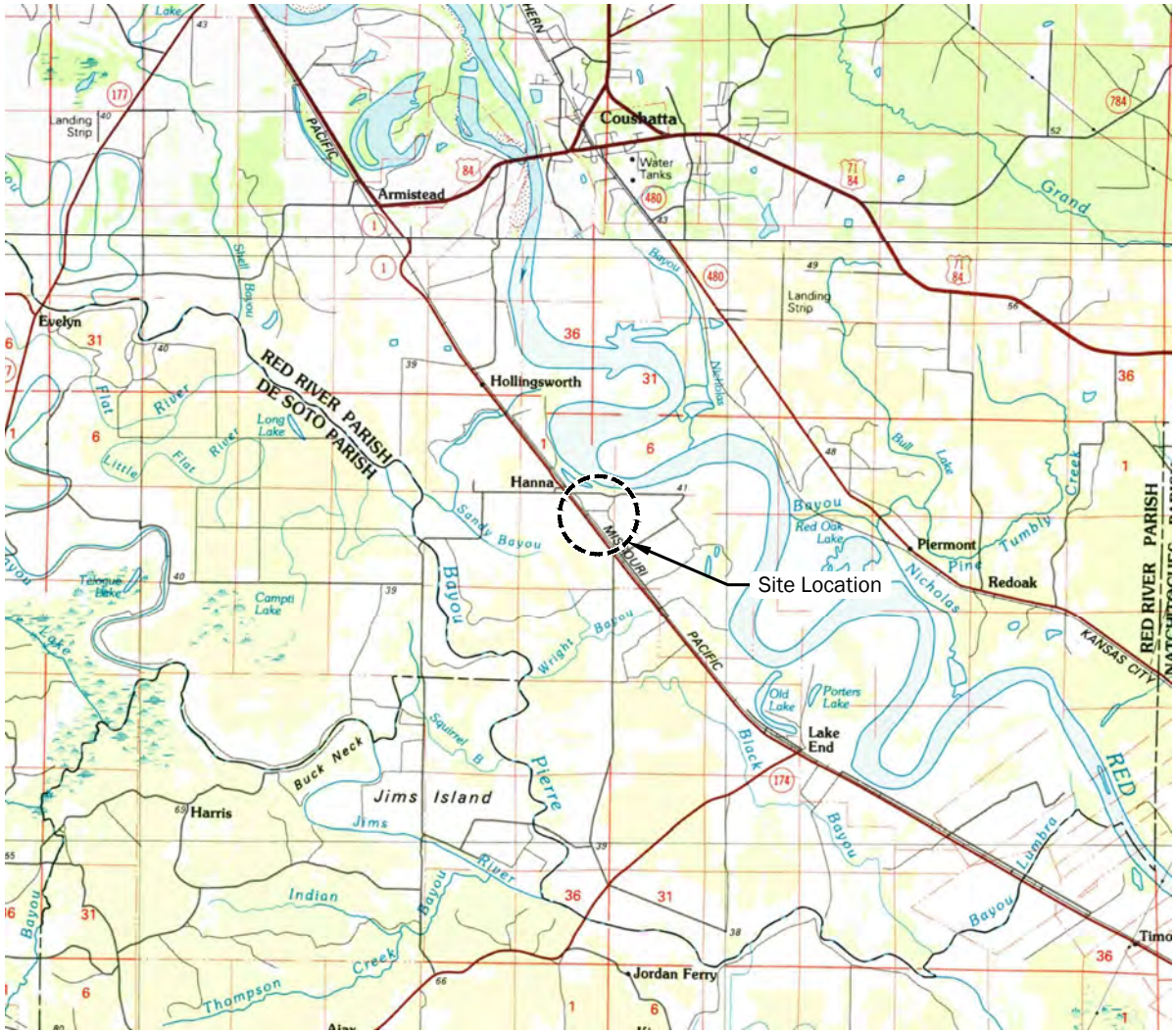
### 9.1. Qualifications of Environmental Professional

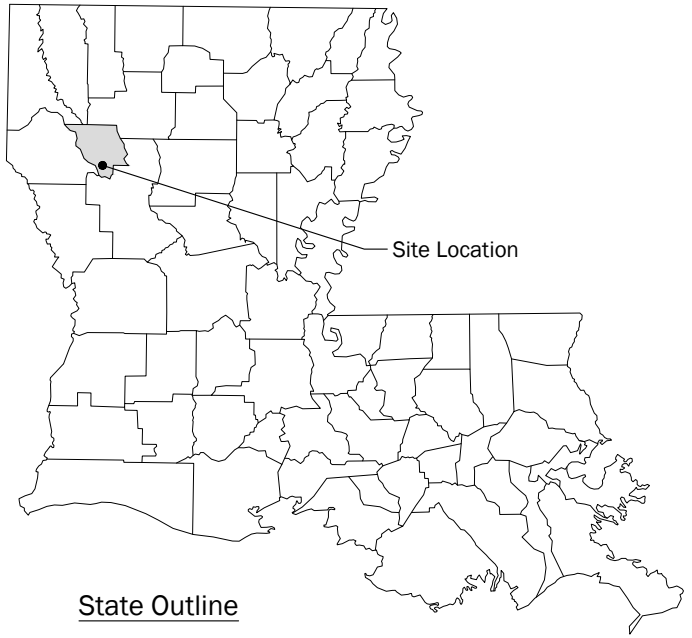
Resumes for the individuals acting as representatives of GeoEngineers Inc. and involved in preparing this report are included in Appendix D.

FIGURES

GeoEngineers

P:\26\26810002\CAD\00\Phase I ESA\2681000200_F02_Site Plan.dwg 1 Date Exported:12/7/2023 3:59 PM - by Gabby Register




Source: Topographic Image was taken from USGS, Quad: Shreveport South North, dated 1985 and Quad: Natchitoches North, dated 1986

Projection: Louisiana State Plane, North Zone, NAD83, US Foot



N

0 2 Miles

Feet

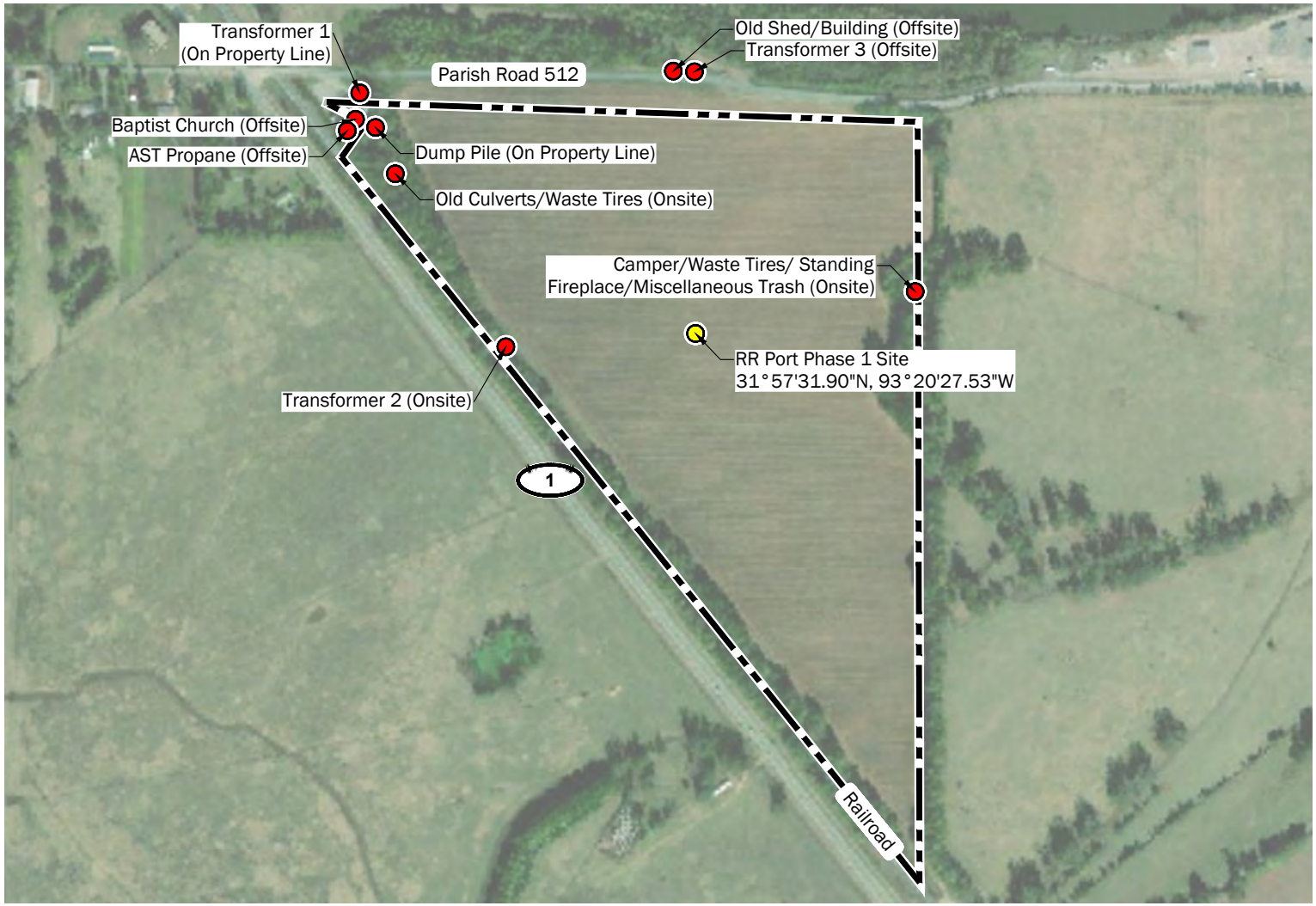
## Vicinity Map

Phase I Environmental Site Assessment
Red River Parish Port Site, Red River Parish, Louisiana for North Louisiana Economic Partnership

GeoEngineers

**Figure 1**

P:\26\26810002\CAD\00\Phase I ESA\2681000200_F02_Site Plan.dwg 2 Date Exported:12/14/2023 10:52 AM - by Gabby Register




Legend

- Site Boundary
- Site Location
- Observations

Source(s):

- Aerial from Microsoft Bing Images

Projection: Louisiana State Plane, North Zone, NAD83, US Foot

**Disclaimer:** This figure was created for a specific purpose and project. Any use of this figure for any other project or purpose shall be at the user's sole risk and without liability to GeoEngineers. The locations of features shown may be approximate. GeoEngineers makes no warranty or representation as to the accuracy, completeness, or suitability of the figure, or data contained therein. The file containing this figure is a copy of a master document, the original of which is retained by GeoEngineers and is the official document of record.

N

0 600

Feet

# Site Plan

Phase I Environmental Site Assessment
Red River Parish Port Site, Red River Parish,
Louisiana for North Louisiana Economic Partnership

GeoEngineers

Figure 2

APPENDICES

GeoEngineers

# APPENDIX A
## Site Photographs and Field Notes


**Property Map**

## Photographs from 11/29/23 Site Visit

Phase I ESA North Louisiana Economic Partnership/ Red River Parish Port - Hanna, LA
026810-002-00

GeoEngineers

Figure A-1

N. End looking south

N. End looking west

## Photographs from 11/29/23 Site Visit

Phase I ESA North Louisiana Economic Partnership/ Red River Parish Port - Hanna, LA
026810-002-00

GeoEngineers

Figure A-2

N. End looking east

N. End looking north with transformer 3

## Photographs from 11/29/23 Site Visit

Phase I ESA North Louisiana Economic Partnership/ Red River Parish Port - Hanna, LA
026810-002-00

GeoEngineers

Figure A-3

S. End looking northeast

S. End looking north

## Photographs from 11/29/23 Site Visit

Phase I ESA North Louisiana Economic Partnership/ Red River Parish Port - Hanna, LA
026810-002-00

GeoEngineers

Figure A-4

S. End looking northwest

S. End looking south

## Photographs from 11/29/23 Site Visit

Phase I ESA North Louisiana Economic Partnership/ Red River Parish Port - Hanna, LA
026810-002-00

GeoEngineers

Figure A-5

NW End looking north

NW End looking east

## Photographs from 11/29/23 Site Visit

Phase I ESA North Louisiana Economic Partnership/ Red River Parish Port - Hanna, LA
026810-002-00

GeoEngineers

Figure A-6

NW End looking south

Baptist Church with transformer 1

## Photographs from 11/29/23 Site Visit

Phase I ESA North Louisiana Economic Partnership/ Red River Parish Port - Hanna, LA
026810-002-00

GeoEngineers

Figure A-7

Dump/trash pile

Dump/trash/culvert pile

## Photographs from 11/29/23 Site Visit

Phase I ESA North Louisiana Economic Partnership/ Red River Parish Port - Hanna, LA
026810-002-00

GeoEngineers

Figure A-8

Waste tire

Collapsed trailer in thick brush

## Photographs from 11/29/23 Site Visit

Phase I ESA North Louisiana Economic Partnership/ Red River Parish Port - Hanna, LA
026810-002-00

GeoEngineers

Figure A-9

**Transformer 2 on east side**

## Photographs from 11/29/23 Site Visit

Phase I ESA North Louisiana Economic Partnership/ Red River Parish Port - Hanna, LA
026810-002-00

GeoEngineers

Figure A-10

# SITE RECON CHECKLIST

This checklist outlines Cascadia's site reconnaissance section and lists the ASTM issues to look for during the site reconnaissance.

**Job Number:** 026810-002-00

**Job Title:** North LA Economic Partnership RR Parish Port Site Phase 1

**Address:** Red River Parish

### Adjoining Properties

| Direction | Occupancy/Use |
|---|---|
| North | Vacant land adjacent to Red River to the north with old shed/barn |
| East | Pasture land |
| South | Vacant with adjacent railroad, Hwy 1 and Driever Rd |
| West | New Hope Baptist Church 3 and rail road |

### Site Reconnaissance Summary

| Observations (Onsite) | Observed (Yes/No)? | Comments |
|---|---|---|
| Structures (existing) | Yes | Collapsed camper on East side |
| Structures (evidence of former) | Yes | Old fireplace on East side |
| Aboveground Storage Tanks (ASTs) | No | |
| Underground Storage Tanks (USTs) | No | |
| Drums or Other Containers | No | |
| Leaks, Spills, or Releases Around ASTs, USTs, and/or Chemical Storage Areas | No | |
| Stained or Corroded Floors, Walls, or Drains | No | |
| Pipes of Unknown Origin or Use | No | |
| Hydraulic Lifts or Elevators | No | |
| Transformers | Yes | 2 located on west end |
| Hazardous Waste Disposal Areas | No | |
| Uncontained Debris, Refuse, or Unidentified Waste Materials | Yes | Debris piles located: 1 on east and 2 on west sides |
| Standing Water or Other Liquids | No | |

| Observation | Observed (Yes/No)? | Comments |
|---|---|---|
| **Floor Drains or Sumps** | No | |
| **Catch Basins, Dry Wells, and Storm Water Drainage** | No | |
| **Pits/Ponds/Lagoons** | No | |
| **Waste or Wastewater Discharges** | No | |
| **Oil/Water Separators** | No | |
| **On-Site Septic System** | No | |
| **Unusual Odors** | No | |
| **Stressed Vegetation/Stained Soil** | No | |
| **Fill Material** | No | |
| **Wells** | No | |
| **Other Observations** | No | |

***RECs & Additional Notes:***

Offsite observations: above ground propane tank on west side close to baptist church; debris pile directly behind baptist church; transformer and old shed on north side across Riverport Dr

# APPENDIX B
## User-Provided Information

**PHASE I ESA USER QUESTIONNAIRE**
**RED RIVER PARISH PORT SITE**
**RED RIVER PARISH, LOUISIANA**
**FILE NO. 26810-002-00**

In order to qualify for one of the federal landowner liability protections, and to enable us to fully address the objectives of the Phase I ESA, please complete the questionnaire below to the best of your knowledge and provide the additional information requested.

**Environmental Liens and Activity and Use Limitations (AULs)**

Answer questions 1 and 2 below through review of one of the two methods below. Please indicate the method used and provide us copies of the relevant title documents:

a. Review of preliminary title report or title commitment

b. Review of title search information report such as recorded documents back to 1980

1. Are you aware of any environmental cleanup liens against the subject property that are filed or recorded under federal, tribal and state or local law?

☐ YES ☒ NO ☐ DON'T KNOW Explain:

2. Are you aware of any Activity and Use Limitations (AULs), such as engineering controls, land use restrictions or institutional controls that are in place at the subject property and/or have been filed or recorded in a registry under federal, tribal, state or local law?

☐ YES ☒ NO ☐ DON'T KNOW Explain:

**Specialized and/or Commonly Known Knowledge, Experience, and Information**

3. As the user of this Phase I ESA, do you have any specialized knowledge or experience related to the subject property, nearby properties, or potential current or past uses of these properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

☒ YES ☐ NO ☐ DON'T KNOW Explain: The property has only been subject to row crops to my knowledge. Standard farming practices would have been its only use.

4. Are you aware of commonly known or reasonably ascertainable information about the subject property that would help us identify conditions indicative or releases or threatened releases? For example,

a. Do you know the past uses of the property?

☒ YES ☐ NO ☐ DON'T KNOW Explain: Farm land

b. Do you know of specific chemicals that are present or once were present on the property?

☐ YES ☒ NO ☐ DON'T KNOW Explain:

c. Do you know of spills or other chemical releases that have taken place at the property?

☐ YES ☒ NO ☐ DON'T KNOW Explain:

d. Do you know of any environmental cleanups that have taken place at the property?

☐ YES ☒ NO ☐ DON'T KNOW Explain:

5. Based on your knowledge and experience related to the subject property, are there any obvious indicators that point to the presence or likely presence of contamination at the property?

☐ YES ☒ NO ☐ DON'T KNOW Explain:

**Purchase Price**

6. Does the purchase price being paid for the subject property reasonable reflect the fair market value of the property?

☒ YES ☐ NO ☐ DON'T KNOW Explain:

a. If you conclude that there is a difference and you answered NO above, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?

☐ YES ☐ NO ☐ DON'T KNOW Explain:

User Questionnaire Completed By (Name and Organization): Travis Tyler Red River Parish Port

Date: 11/13/2023

List of Requested Information, If Available

- Names and phone numbers of key individuals with knowledge of property use history.
- A map showing the boundaries of the subject property.
- Tax ID numbers for parcels included within the subject property.
- Copies of any past environmental site assessment and/or audit reports or risk assessment studies.
- Environmental permits.
- Registrations for underground and aboveground storage tanks (if any).
- Material data safety sheets for hazardous substances used or stored on-site (if any).
- Community right-to-know plans pertaining to the subject property.
- Safety plans pertaining to on-site facilities.
- Reports regarding geotechnical and/or hydrogeologic conditions at or near the subject property.
- Notices or other correspondence from any governmental agency relating to past or current violations of environmental laws with respect to the subject property or relating to environmental liens encumbering the property.
- Environmental Liens or Recorded Activity Use Limitations (AULs)
- Chain-of-Title or other Title Report documents

# APPENDIX C
## ERIS Report

# DATABASE REPORT

| | |
|---|---|
| **Project Property:** | *Red River Parish Port Site*<br>*n/a*<br>*Coushatta LA* |
| **Project No:** | |
| **Report Type:** | *Database Report* |
| **Order No:** | *23112100939* |
| **Requested by:** | *GeoEngineers, Inc.* |
| **Date Completed:** | *November 26, 2023* |

**Environmental Risk Information Services**
*A division of Glacier Media Inc.*
1.866.517.5204 | info@erisinfo.com | erisinfo.com

# Table of Contents

# Executive Summary

***Property Information:***

| | | |
|---|---|---|
| **Project Property:** | | *Red River Parish Port Site*<br>*n/a  Coushatta LA* |
| **Project No:** | | |
| **Coordinates:** | | |
| | **Latitude:** | *31.9585299* |
| | **Longitude:** | *-93.34060758* |
| | **UTM Northing:** | *3,535,889.70* |
| | **UTM Easting:** | *467,813.24* |
| | **UTM Zone:** | *UTM Zone 15R* |
| **Elevation:** | | *130 FT* |

***Order Information:***

| | |
|---|---|
| **Order No:** | *23112100939* |
| **Date Requested:** | *November 21, 2023* |
| **Requested by:** | *GeoEngineers, Inc.* |
| **Report Type:** | *Database Report* |

***Historicals/Products:***

| | |
|---|---|
| **Aerial Photographs** | *Historical Aerials (with Project Boundaries)* |
| **Chain of Title & Lien Searches** | *ASTM E1527-21 Compliant 60-YR Historic Chain of Title with Environmental Lien Search (ELS back to 1980)* |
| **City Directory Search** | *CD - 2 Street Search* |
| **ERIS Xplorer** | *ERIS Xplorer* |
| **Excel Add-On** | *Excel Add-On* |
| **Fire Insurance Maps** | *US Fire Insurance Maps* |
| **Physical Setting Report (PSR)** | *Physical Setting Report (PSR)* |
| **Topographic Map** | *Topographic Maps* |

# Executive Summary: Report Summary

| Database | Searched | Search Radius | Project Property | Within 0.12mi | 0.125mi to 0.25mi | 0.25mi to 0.50mi | 0.50mi to 1.00mi | Total |
|---|---|---|---|---|---|---|---|---|
| **Standard Environmental Records** | | | | | | | | |
| **Federal** | | | | | | | | |
| NPL | Y | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| PROPOSED NPL | Y | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| DELETED NPL | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| SEMS | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| SEMS ARCHIVE | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| ODI | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| CERCLIS | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| IODI | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| CERCLIS NFRAP | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| CERCLIS LIENS | Y | PO | 0 | - | - | - | - | 0 |
| RCRA CORRACTS | Y | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| RCRA TSD | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| RCRA LQG | Y | 0.25 | 0 | 0 | 0 | - | - | 0 |
| RCRA SQG | Y | 0.25 | 0 | 0 | 0 | - | - | 0 |
| RCRA VSQG | Y | 0.25 | 0 | 0 | 0 | - | - | 0 |
| RCRA NON GEN | Y | 0.25 | 0 | 0 | 0 | - | - | 0 |
| RCRA CONTROLS | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| FED ENG | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| FED INST | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| LUCIS | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| NPL IC | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| ERNS 1982 TO 1986 | Y | PO | 0 | - | - | - | - | 0 |
| ERNS 1987 TO 1989 | Y | PO | 0 | - | - | - | - | 0 |
| ERNS | Y | PO | 0 | - | - | - | - | 0 |
| FED BROWNFIELDS | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| FEMA UST | Y | 0.25 | 0 | 0 | 0 | - | - | 0 |
| FRP | Y | 0.25 | 0 | 0 | 0 | - | - | 0 |

| Database | Searched | Search Radius | Project Property | Within 0.12mi | 0.125mi to 0.25mi | 0.25mi to 0.50mi | 0.50mi to 1.00mi | Total |
|---|---|---|---|---|---|---|---|---|
| DELISTED FRP | Y | 0.25 | 0 | 0 | 0 | - | - | 0 |
| HIST GAS STATIONS | Y | 0.25 | 0 | 0 | 0 | - | - | 0 |
| REFN | Y | 0.25 | 0 | 0 | 0 | - | - | 0 |
| BULK TERMINAL | Y | 0.25 | 0 | 0 | 0 | - | - | 0 |
| SEMS LIEN | Y | PO | 0 | - | - | - | - | 0 |
| SUPERFUND ROD | Y | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| DOE FUSRAP | Y | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| **State** | | | | | | | | |
| SHWS | Y | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| DELISTED SHWS | Y | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| SHWS INACT | Y | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| SWF/LF | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| SWF PERMITS | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| DEBRIS | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| DEBRIS | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| DDEB | Y | 0.25 | 0 | 0 | 0 | - | - | 0 |
| RECYCLING | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| LUST | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| LUST HISTORICAL | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| DELISTED LUST | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| UST | Y | 0.25 | 0 | 0 | 0 | - | - | 0 |
| UST HISTORICAL | Y | 0.25 | 0 | 0 | 0 | - | - | 0 |
| DELISTED TANK | Y | 0.25 | 0 | 0 | 0 | - | - | 0 |
| INST | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| VCP | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| EVAL AND CLOSED | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| **Tribal** | | | | | | | | |
| INDIAN LUST | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| INDIAN UST | Y | 0.25 | 0 | 0 | 0 | - | - | 0 |
| DELISTED INDIAN LST | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| DELISTED INDIAN UST | Y | 0.25 | 0 | 0 | 0 | - | - | 0 |

**County** ***No County databases were selected to be included in the search.***

**Additional Environmental Records**

| Database | Searched | Search Radius | Project Property | Within 0.12mi | 0.125mi to 0.25mi | 0.25mi to 0.50mi | 0.50mi to 1.00mi | Total |
|---|---|---|---|---|---|---|---|---|
| **Federal** | | | | | | | | |
| FINDS/FRS | Y | PO | 0 | - | - | - | - | 0 |
| TRIS | Y | PO | 0 | - | - | - | - | 0 |
| PFAS NPL | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| PFAS FED SITES | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| PFAS SSEHRI | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| ERNS PFAS | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| PFAS NPDES | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| PFAS TRI | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| PFAS WATER | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| PFAS TSCA | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| PFAS E-MANIFEST | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| PFAS IND | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| HMIRS | Y | 0.125 | 0 | 0 | - | - | - | 0 |
| NCDL | Y | 0.125 | 0 | 0 | - | - | - | 0 |
| TSCA | Y | 0.125 | 0 | 0 | - | - | - | 0 |
| HIST TSCA | Y | 0.125 | 0 | 0 | - | - | - | 0 |
| FTTS ADMIN | Y | PO | 0 | - | - | - | - | 0 |
| FTTS INSP | Y | PO | 0 | - | - | - | - | 0 |
| PRP | Y | PO | 0 | - | - | - | - | 0 |
| SCRD DRYCLEANER | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| ICIS | Y | PO | 0 | - | - | - | - | 0 |
| FED DRYCLEANERS | Y | 0.25 | 0 | 0 | 0 | - | - | 0 |
| DELISTED FED DRY | Y | 0.25 | 0 | 0 | 0 | - | - | 0 |
| FUDS | Y | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| FUDS MRS | Y | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| FORMER NIKE | Y | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| PIPELINE INCIDENT | Y | PO | 0 | - | - | - | - | 0 |
| MLTS | Y | PO | 0 | - | - | - | - | 0 |
| HIST MLTS | Y | PO | 0 | - | - | - | - | 0 |
| MINES | Y | 0.25 | 0 | 0 | 0 | - | - | 0 |
| SMCRA | Y | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| MRDS | Y | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| LM SITES | Y | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| ALT FUELS | Y | 0.25 | 0 | 0 | 0 | - | - | 0 |

| Database | Searched | Search Radius | Project Property | Within 0.12mi | 0.125mi to 0.25mi | 0.25mi to 0.50mi | 0.50mi to 1.00mi | Total |
|---|---|---|---|---|---|---|---|---|
| CONSENT DECREES | Y | 0.25 | 0 | 0 | 0 | - | - | 0 |
| AFS | Y | PO | 0 | - | - | - | - | 0 |
| SSTS | Y | 0.25 | 0 | 0 | 0 | - | - | 0 |
| PCBT | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| PCB | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| **State** | | | | | | | | |
| SPILLS | Y | 0.125 | 0 | 0 | - | - | - | 0 |
| WASTE PITS | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| LIENS | Y | PO | 0 | - | - | - | - | 0 |
| DRYCLEANERS | Y | 0.25 | 0 | 0 | 0 | - | - | 0 |
| DELISTED DRYCLEANERS | Y | 0.25 | 0 | 0 | 0 | - | - | 0 |
| PFAS | Y | 0.5 | 0 | 0 | 0 | 0 | - | 0 |
| ASBESTOS | Y | 0.125 | 0 | 0 | - | - | - | 0 |
| WASTE TIRE GEN | Y | PO | 0 | - | - | - | - | 0 |
| CDL | Y | PO | 0 | - | - | - | - | 0 |
| **Tribal** | ***No Tribal additional environmental record sources available for this State.*** | | | | | | | |
| **County** | ***No County additional environmental databases were selected to be included in the search.*** | | | | | | | |
| ***Total:*** | | | 0 | 0 | 0 | 0 | 0 | 0 |

**** PO – Property Only***
**** 'Property and adjoining properties' database search radii are set at 0.25 miles.***

# Executive Summary: Site Report Summary - Project Property

| Map Key | DB | Company/Site Name | Address | Direction | Distance (mi/ft) | Elev Diff (ft) | Page Number |
|---|---|---|---|---|---|---|---|

No records found in the selected databases for the project property.

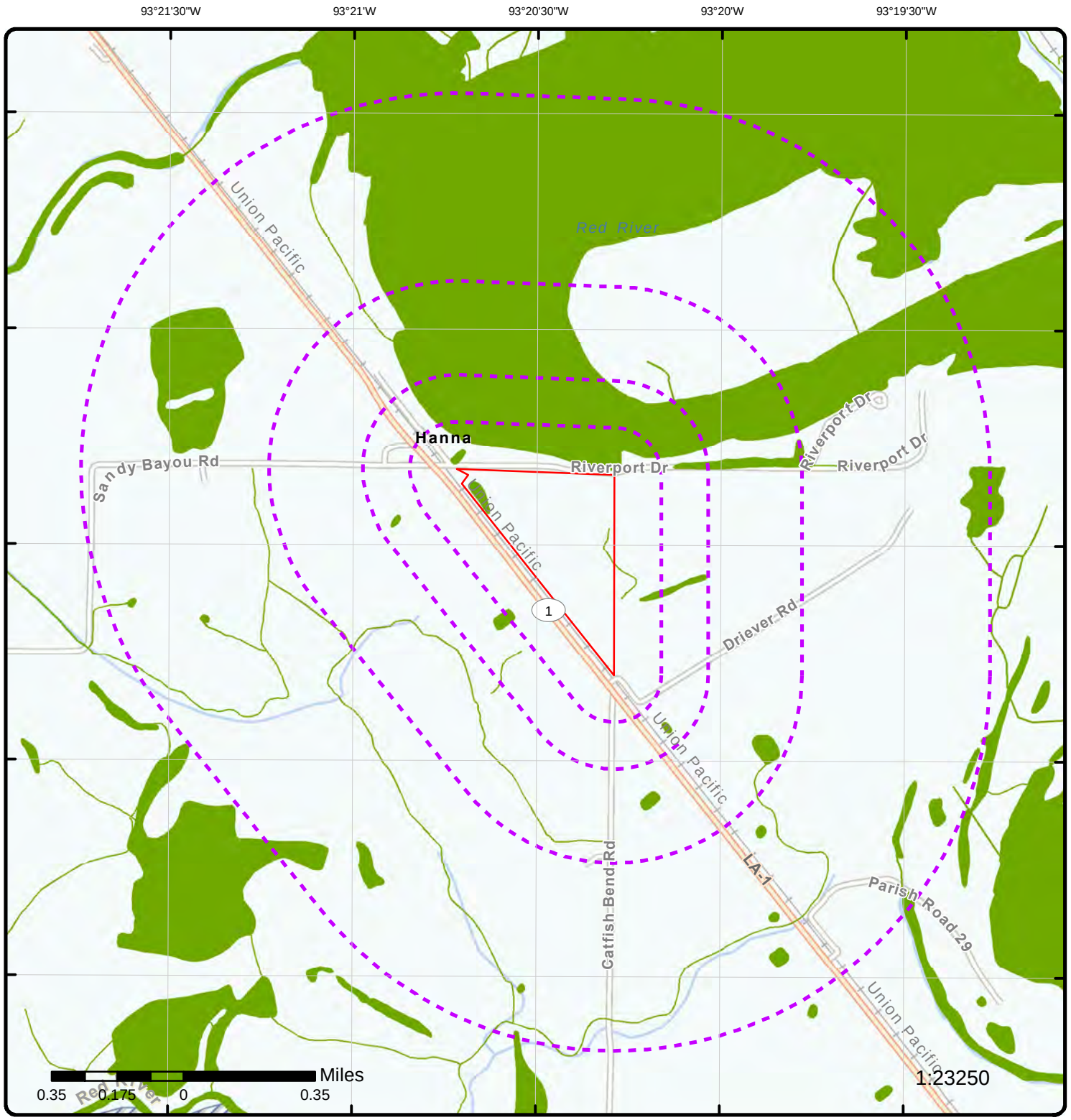
# Executive Summary: Site Report Summary - Surrounding Properties

| Map Key | DB | Company/Site Name | Address | Direction | Distance (mi/ft) | Elev Diff (ft) | Page Number |
|---|---|---|---|---|---|---|---|

No records found in the selected databases for the surrounding properties.

## Executive Summary: Summary by Data Source

No records found in the selected databases for the project property or surrounding properties.

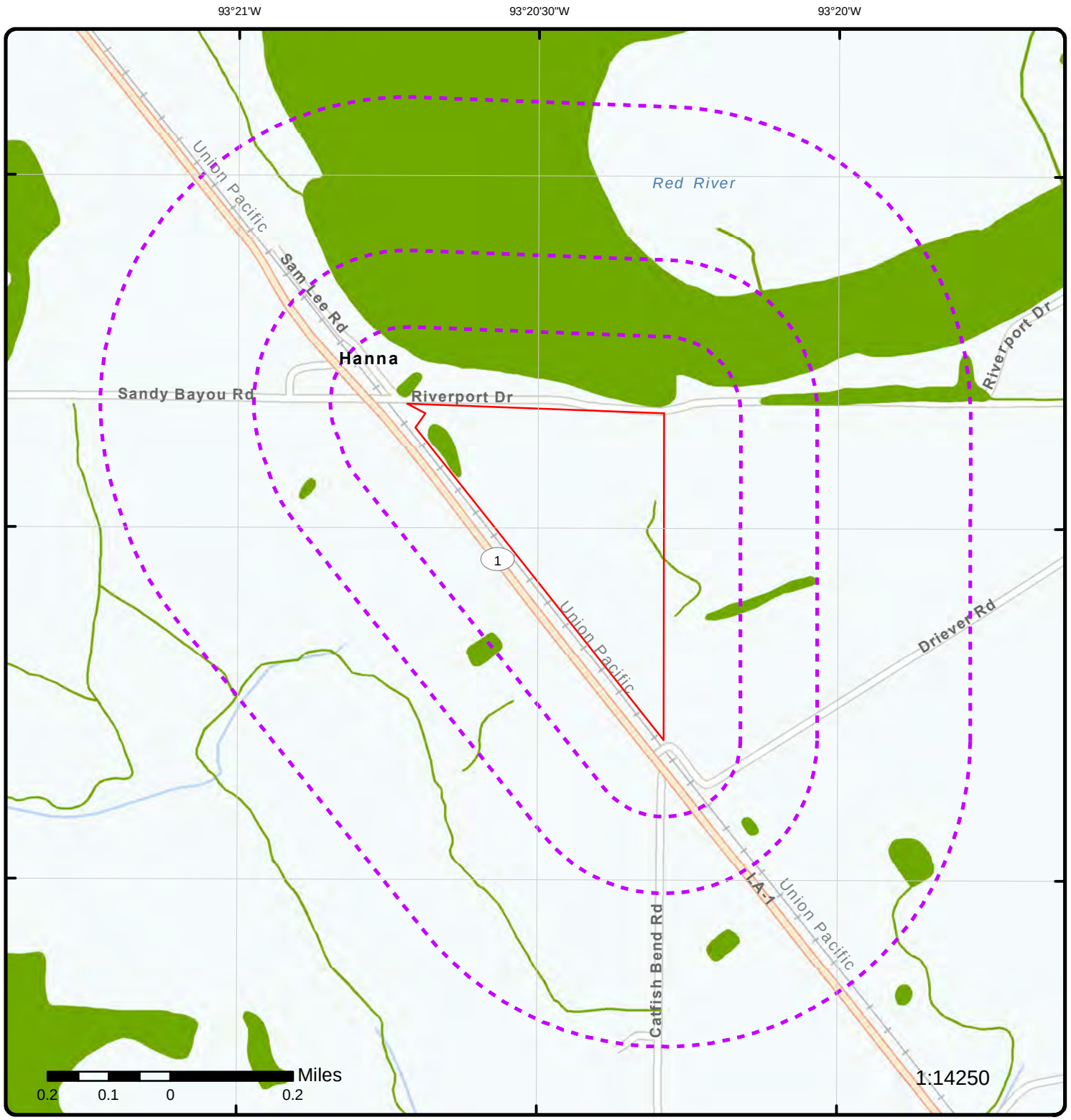



# Map: 1.0 Mile Radius

Order Number: 23112100939

Address: n/a, Coushatta, LA

- Project Property
- Buffer Outline
- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- Areas with Higher Elevation
- Areas with Same Elevation
- Areas with Lower Elevation
- Areas with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major & Minor Arterial
- Traffic Circle; Ramp
- Local Road
- Rail
- State
- Country
- National Wetland
- Indian Reserve Land
- Plume
- 100 Year Flood Zone
- 500 Year Flood Zone
- FWS Special Designation Areas
- National Priorities List (Active, Delisted, Proposed, Institutional Control)

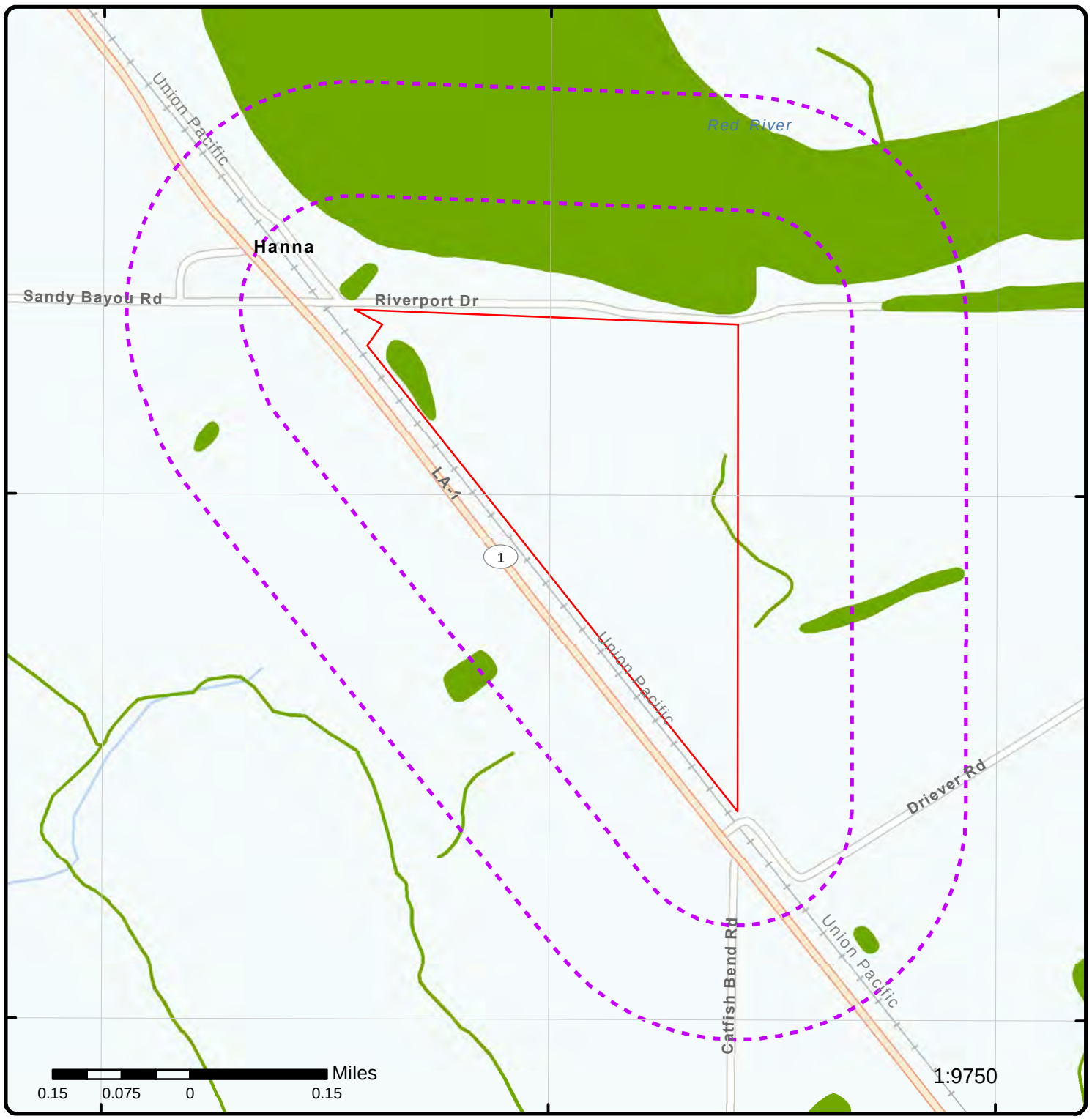



# Map: 0.5 Mile Radius

Order Number: 23112100939

Address: n/a, Coushatta, LA

- Project Property
- Buffer Outline
- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- Areas with Higher Elevation
- Areas with Same Elevation
- Areas with Lower Elevation
- Areas with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major & Minor Arterial
- Traffic Circle; Ramp
- Local Road
- Rail
- State
- Country
- National Wetland
- Indian Reserve Land
- Plume
- 100 Year Flood Zone
- 500 Year Flood Zone
- FWS Special Designation Areas
- National Priorities List (Active, Delisted, Proposed, Institutional Control)




# Map: 0.25 Mile Radius

Order Number: 23112100939

Address: n/a, Coushatta, LA

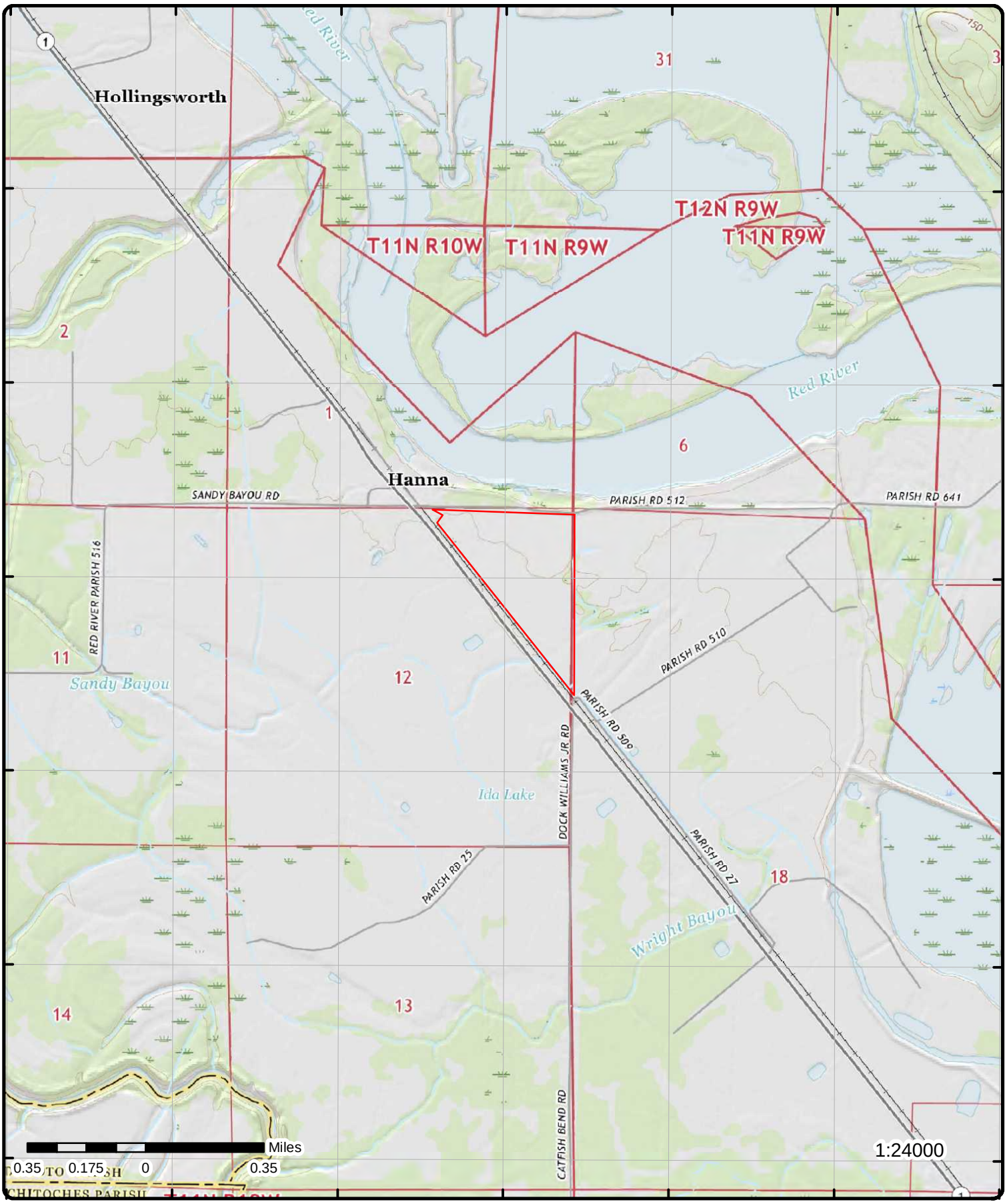
- Project Property
- Buffer Outline
- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- Areas with Higher Elevation
- Areas with Same Elevation
- Areas with Lower Elevation
- Areas with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major & Minor Arterial
- Traffic Circle; Ramp
- Local Road
- Rail
- State
- Country
- National Wetland
- Indian Reserve Land
- Plume
- 100 Year Flood Zone
- 500 Year Flood Zone
- FWS Special Designation Areas
- National Priorities List (Active, Delisted, Proposed, Institutional Control)


# Aerial **Year: 2022**

Address: n/a, Coushatta, LA

**Source:** ESRI World Imagery

Order Number: 23112100939




# Topographic Map

**Year: 2020**

Order Number: 23112100939

Address: n/a, LA

Quadrangle(s): Hanna LA, Evelyn LA

**Source:** USGS Topographic Map

# Detail Report

| Map Key | Number of Records | Direction | Distance (mi/ft) | Elev/Diff (ft) | Site | DB |
|---|---|---|---|---|---|---|

No records found in the selected databases for the project property or surrounding properties.

# Unplottable Summary

**Total: 1 Unplottable sites**

| DB | Company Name/Site Name | Address | City | Zip | ERIS ID |
|---|---|---|---|---|---|
| SWF PERMITS | Moores & Brothers | Catfish Bend Rd Coushatta, LA 71019 | Coushatta LA | | 879770665 |

# Unplottable Report

***Site:*** ***Moores & Brothers***
***Catfish Bend Rd Coushatta, LA 71019  Coushatta LA***

SWF PERMITS

| | | | |
|---|---|---|---|
| ***Facility ID:*** | | ***Region:*** | Northwest |
| ***Status:*** | | ***Parish (EDMS):*** | Red River |
| ***Facility Type:*** | | ***AI Type:*** | General Agency Interest |
| ***Agency Interest:*** | 14753 | | |
| ***Parish:*** | | | |
| ***Facility Name:*** | | | |
| ***Name:*** | Moores & Brothers | | |
| ***Physical Address:*** | Catfish Bend Rd Coushatta, LA 71019 | | |
| ***Mailing Address:*** | Rt 4 Box 196 Coushatta, LA 71019 | | |
| ***Alternate ID:*** | 3630 | | |
| ***Alternate Names:*** | Moores And Brothers | | |

***DEQ EDMS Document Search***

| | | | |
|---|---|---|---|
| ***Document ID:*** | 98078 | ***Date:*** | 8/17/1992 |
| ***Document Type:*** | Permits | ***Function:*** | Permits |
| ***Document Subtype:*** | | ***Pages:*** | 2 |
| ***Description:*** | | | |
| ***Media:*** | Solid Waste | | |
| ***Document URL:*** | https://edms.deq.louisiana.gov/app/doc/view?doc=98078 | | |

# Appendix: Database Descriptions

*Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ERIS updates databases as set out in ASTM Standard E1527-13 and E1527-21, Section 8.1.8 Sources of Standard Source Information:*

*"Government information from nongovernmental sources may be considered current if the source updates the information at least every 90 days, or, for information that is updated less frequently than quarterly by the government agency, within 90 days of the date the government agency makes the information available to the public."*

## *Standard Environmental Record Sources*

### *Federal*

***National Priority List:*** NPL

Sites on the United States Environmental Protection Agency (EPA)'s National Priorities List of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. The NPL, which EPA is required to update at least once a year, is based primarily on the score a site receives from EPA's Hazard Ranking System. A site must be on the NPL to receive money from the Superfund Trust Fund for remedial action. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

***Government Publication Date: Oct 26, 2023***

***National Priority List - Proposed:*** PROPOSED NPL

Sites proposed by the United States Environmental Protection Agency (EPA), the state agency, or concerned citizens for addition to the National Priorities List (NPL) due to contamination by hazardous waste and identified by the EPA as a candidate for cleanup because it poses a risk to human health and/or the environment. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

***Government Publication Date: Oct 26, 2023***

***Deleted NPL:*** DELETED NPL

Sites deleted from the United States Environmental Protection Agency (EPA)'s National Priorities List. The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

***Government Publication Date: Oct 26, 2023***

***SEMS List 8R Active Site Inventory:*** SEMS

The U.S. Environmental Protection Agency's (EPA) Superfund Program has deployed the Superfund Enterprise Management System (SEMS), which integrates multiple legacy systems into a comprehensive tracking and reporting tool. This inventory contains active sites evaluated by the Superfund program that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted. This data includes SEMS sites from the List 8R Active file as well as applicable sites from the SEMS GIS/REST file layer obtained from EPA's Facility Registry Service.

***Government Publication Date: Sep 19, 2023***

***SEMS List 8R Archive Sites:*** SEMS ARCHIVE

The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System (SEMS) Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. This data includes sites from the List 8R Archived site file.

***Government Publication Date: Sep 19, 2023***

***Inventory of Open Dumps, June 1985:*** ODI

The Resource Conservation and Recovery Act (RCRA) provides for publication of an inventory of open dumps. The Act defines "open dumps" as facilities which do not comply with EPA's "Criteria for Classification of Solid Waste Disposal Facilities and Practices" (40 CFR 257).

***Government Publication Date: Jun 1985***

***Comprehensive Environmental Response, Compensation and Liability Information System - CERCLIS:*** CERCLIS

Superfund is a program administered by the United States Environmental Protection Agency (EPA) to locate, investigate, and clean up the worst hazardous waste sites throughout the United States. CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The EPA administers the Superfund program in cooperation with individual states and tribal governments; this database is made available by the EPA.

***Government Publication Date: Oct 25, 2013***

***EPA Report on the Status of Open Dumps on Indian Lands:*** IODI

Public Law 103-399, The Indian Lands Open Dump Cleanup Act of 1994, enacted October 22, 1994, identified congressional concerns that solid waste open dump sites located on American Indian or Alaska Native (AI/AN) lands threaten the health and safety of residents of those lands and contiguous areas. The purpose of the Act is to identify the location of open dumps on Indian lands, assess the relative health and environment hazards posed by those sites, and provide financial and technical assistance to Indian tribal governments to close such dumps in compliance with Federal standards and regulations or standards promulgated by Indian Tribal governments or Alaska Native entities.

***Government Publication Date: Dec 31, 1998***

***CERCLIS - No Further Remedial Action Planned:*** CERCLIS NFRAP

An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. The Archive designation means that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

***Government Publication Date: Oct 25, 2013***

***CERCLIS Liens:*** CERCLIS LIENS

A Federal Superfund lien exists at any property where EPA has incurred Superfund costs to address contamination ("Superfund site") and has provided notice of liability to the property owner. A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. This database is made available by the United States Environmental Protection Agency (EPA). This database was provided by the United States Environmental Protection Agency (EPA). Refer to SEMS LIEN as the current data source for Superfund Liens.

***Government Publication Date: Jan 30, 2014***

***RCRA CORRACTS-Corrective Action:*** RCRA CORRACTS

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. At these sites, the Corrective Action Program ensures that cleanups occur. EPA and state regulators work with facilities and communities to design remedies based on the contamination, geology, and anticipated use unique to each site.

***Government Publication Date: Jul 10, 2023***

***RCRA non-CORRACTS TSD Facilities:*** RCRA TSD

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. This database includes Non-Corrective Action sites listed as treatment, storage and/or disposal facilities of hazardous waste as defined by RCRA.

***Government Publication Date: Jul 10, 2023***

***RCRA Generator List:*** RCRA LQG

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Large Quantity Generators (LQGs) generate 1,000 kilograms per month or more of hazardous waste or more than one kilogram per month of acutely hazardous waste.

***Government Publication Date: Jul 10, 2023***

***RCRA Small Quantity Generators List:*** RCRA SQG

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Small Quantity Generators (SQGs) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month.

***Government Publication Date: Jul 10, 2023***

***RCRA Very Small Quantity Generators List:*** RCRA VSQG

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Very Small Quantity Generators (VSQG) generate 100 kilograms or less per month of hazardous waste, or one kilogram or less per month of acutely hazardous waste. Additionally, VSQG may not accumulate more than 1,000 kilograms of hazardous waste at any time.

***Government Publication Date: Jul 10, 2023***

***RCRA Non-Generators:*** RCRA NON GEN

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Non-Generators do not presently generate hazardous waste.

***Government Publication Date: Jul 10, 2023***

***RCRA Sites with Controls:*** RCRA CONTROLS

List of Resource Conservation and Recovery Act (RCRA) facilities with institutional controls in place. RCRA gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances.

***Government Publication Date: Jul 10, 2023***

***Federal Engineering Controls-ECs:*** FED ENG

This list of Engineering controls (ECs) is provided by the United States Environmental Protection Agency (EPA). ECs encompass a variety of engineered and constructed physical barriers (e.g., soil capping, sub-surface venting systems, mitigation barriers, fences) to contain and/or prevent exposure to contamination on a property. The EC listing includes remedy component data from Superfund decision documents issued in fiscal years 1982-2021 for applicable sites on the final or deleted on the National Priorities List (NPL); and sites with a Superfund Alternative Approach (SAA) Agreement in place. The only sites included that are not on the NPL; proposed for NPL; or removed from proposed NPL, are those with an SAA Agreement in place.

***Government Publication Date: Oct 26, 2023***

***Federal Institutional Controls- ICs:*** FED INST

This list of Institutional controls (ICs) is provided by the United States Environmental Protection Agency (EPA). ICs are non-engineered instruments, such as administrative and legal controls, that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Although it is EPA's expectation that treatment or engineering controls will be used to address principal threat wastes and that groundwater will be returned to its beneficial use whenever practicable, ICs play an important role in site remedies because they reduce exposure to contamination by limiting land or resource use and guide human behavior at a site. The IC listing includes remedy component data from Superfund decision documents issued in fiscal years 1982-2021 for applicable sites on the final or deleted on the National Priorities List (NPL); and sites with a Superfund Alternative Approach (SAA) Agreement in place. The only sites included that are not on the NPL; proposed for NPL; or removed from proposed NPL, are those with an SAA Agreement in place.

***Government Publication Date: Oct 26, 2023***

***Land Use Control Information System:*** LUCIS

The LUCIS database is maintained by the U.S. Department of the Navy and contains information for former Base Realignment and Closure (BRAC) properties across the United States.

***Government Publication Date: Sep 1, 2006***

***Institutional Control Boundaries at NPL sites:*** NPL IC

Boundaries of Institutional Control areas at sites on the United States Environmental Protection Agency (EPA)'s National Priorities List, or Proposed or Deleted, made available by the EPA's Shared Enterprise Geodata and Services (SEGS). United States Environmental Protection Agency (EPA)'s National Priorities List of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. Institutional controls are non-engineered instruments such as administrative and legal controls that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy.

***Government Publication Date: Oct 26, 2023***

***Emergency Response Notification System:*** ERNS 1982 TO 1986

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

***Government Publication Date: 1982-1986***

***Emergency Response Notification System:*** ERNS 1987 TO 1989

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

***Government Publication Date: 1987-1989***

***Emergency Response Notification System:*** ERNS

Database of oil and hazardous substances spill reports made available by the United States Coast Guard National Response Center (NRC). The NRC fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. These data contain initial incident data that has not been validated or investigated by a federal/state response agency.

***Government Publication Date: Aug 12, 2023***

***The Assessment, Cleanup and Redevelopment Exchange System (ACRES) Brownfield Database:*** FED BROWNFIELDS

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties protects the environment, reduces blight, and takes development pressures off greenspaces and working lands. This data is provided by the United States Environmental Protection Agency (EPA) and includes Brownfield sites from the Cleanups in My Community (CIMC) web application.

***Government Publication Date: Mar 13, 2023***

***FEMA Underground Storage Tank Listing:*** FEMA UST

The Federal Emergency Management Agency (FEMA) of the Department of Homeland Security maintains a list of FEMA owned underground storage tanks.

***Government Publication Date: Dec 31, 2017***

***Facility Response Plan:*** FRP

This listing contains facilities that have submitted Facility Response Plans (FRPs) to the U.S. Environmental Protection Agency (EPA). Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit FRPs. Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments. This listing includes FRP facilities from an applicable EPA FOIA file and Homeland Infrastructure Foundation-Level Data (HIFLD) data file.

***Government Publication Date: May 2, 2023***

***Delisted Facility Response Plans:*** DELISTED FRP

Facilities that once appeared in - and have since been removed from - the list of facilities that have submitted Facility Response Plans (FRP) to EPA. Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit Facility Response Plans (FRPs). Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments.

***Government Publication Date: May 2, 2023***

***Historical Gas Stations:*** HIST GAS STATIONS

This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930.

***Government Publication Date: Jul 1, 1930***

***Petroleum Refineries:*** REFN

List of petroleum refineries from the U.S. Energy Information Administration (EIA) Refinery Capacity Report. Includes operating and idle petroleum refineries (including new refineries under construction) and refineries shut down during the previous year located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U.S. possessions. Survey locations adjusted using public data.

***Government Publication Date: Sep 20, 2023***

***Petroleum Product and Crude Oil Rail Terminals:*** BULK TERMINAL

A list of petroleum product and crude oil rail terminals from the U.S. Energy Information Administration (EIA), as well as petroleum terminals sourced from the Federal Communications Commission Data hosted by the Homeland Infrastructure Foundation-Level Database. Data includes operable bulk petroleum product terminals with a total bulk shell storage capacity of 50,000 barrels or more, and/or the ability to receive volumes from tanker, barge, or pipeline; also rail terminals handling the loading and unloading of crude oil with activity between 2017 and 2018. EIA petroleum product terminal data comes from the EIA-815 Bulk Terminal and Blender Report, which includes working, shell in operation, and shell idle for several major product groupings.

***Government Publication Date: Sep 22, 2023***

***LIEN on Property:*** SEMS LIEN

The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System (SEMS) provides Lien details on applicable properties, such as the Superfund lien on property activity, the lien property information, and the parties associated with the lien.

***Government Publication Date: Sep 19, 2023***

***Superfund Decision Documents:*** SUPERFUND ROD

This database contains a list of decision documents for Superfund sites. Decision documents serve to provide the reasoning for the choice of (or) changes to a Superfund Site cleanup plan. The decision documents include completed Records of Decision (ROD), ROD Amendments, Explanations of Significant Differences (ESD) for active and archived sites stored in the Superfund Enterprise Management System (SEMS), along with other associated memos and files. This information is maintained and made available by the U.S. Environmental Protection Agency.

***Government Publication Date: Sep 19, 2023***

***Formerly Utilized Sites Remedial Action Program:*** DOE FUSRAP

The U.S. Department of Energy (DOE) established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from the Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations. The DOE Office of Legacy Management (LM) established long-term surveillance and maintenance (LTS&M) requirements for remediated FUSRAP sites. DOE evaluates the final site conditions of a remediated site on the basis of risk for different future uses. DOE then confirms that LTS&M requirements will maintain protectiveness.

***Government Publication Date: Mar 4, 2017***

## *State*

***Potential and Confirmed Sites List:*** SHWS

This list of Potential and Confirmed sites is provided by the Louisiana Department of Environmental Quality (LDEQ). A Confirmed status indicates that (1) hazardous waste(s) or substance(s) are present at the site and (2) these sites are under the jurisdiction of Inactive and Abandoned Sites (IAS) Hazardous Waste and Hazardous Substance Site Remediation regulations. A Potential status is an indicator that sites are either waiting to be assessed or the assessment is in progress. This database is state equivalent CERCLIS.

***Government Publication Date: Oct 4, 2023***

***Delisted Potential and Confirmed Sites:*** DELISTED SHWS

This database contains a list of sites which were completed remediation and classified as 'No Further Action' records, these sites been removed by Louisiana Department of Environmental Quality (LDEQ) from the Potential and Confirmed Sites (SHWS) list.

***Government Publication Date: Oct 4, 2023***

***Inactive and Abandoned Hazardous Waste Sites:*** SHWS INACT

A list of Inactive and Abandoned Sites that are found in the Louisiana Department of Environmental Quality's (LDEQ) Electronic Document Management System (EDMS). The Louisiana Inactive and Abandoned Hazardous Waste Site Legislature finds and declares that: (1) Hazardous wastes in inactive or abandoned pits, ponds, lagoons, landfills, or other pollution sources pose a present and future hazard to the public health, safety, and welfare; (2) State laws and regulations must comprehensively address those situations where the state must direct or participate in the clean-up, closure, or post-closure of inactive and abandoned hazardous waste sites through the exercise of its police powers and the expenditure of public monies or both.

***Government Publication Date: Oct 4, 2023***

***Landfill List:*** SWF/LF

A list of solid waste and landfill facilities made available by Louisiana Department of Environmental Quality (LDEQ). A landfill is a facility for the disposal of solid waste, other than landfarm(s) or surface impoundment(s), that disposes of solid waste by placing it on or into the land surface.

***Government Publication Date: Aug 17, 2023***

***Solid Waste Permits:*** SWF PERMITS

List of facilities with Solid Waste Permits from the Louisiana Department of Environmental Quality (LDEQ). Includes record from the Solid Waste Notifications List and LDEQ's Electronic Document Management System (EDMS).

***Government Publication Date: Oct 4, 2023***

***Approved Debris Sites:*** DEBRIS

A list of sites used to dump debris generated by natural disasters. This list is managed by Louisiana Department of Environmental Quality (LDEQ).

***Government Publication Date: Jun 19, 2023***

***Approved Hurricane Debris Dump Sites:*** DEBRIS

This Louisiana Department of Environmental Quality listing of hurricane debris sites contains the temporary and the permitted landfills in the state that can currently accept hurricane debris (C&D, chipping, grinding, burning, staging, and wood waste). These landfills include Type I (Non-hazardous Industrial), Type II (Municipal) and Type III (Construction and Demolition Debris and Wood Waste).

***Government Publication Date: Sep 6, 2023***

***Delisted Approved Debris Sites:*** DDEB

A list of closed (closed within the last 4 years) sites used to dump debris generated by natural disasters. This list is managed by Louisiana Department of Environmental Quality (LDEQ).

***Government Publication Date: Jun 19, 2023***

***Recycling Facilities:*** RECYCLING

This listing of recycling facilities is maintained by the Louisiana Department of Environmental Quality.

***Government Publication Date: May 31, 2023***

***Leaking Underground Storage Tanks:*** LUST

This listing of leaking underground storage tank (LUST) sites is made available by the Louisiana Department of Environmental Quality (LDEQ). The LUST sites are compiled from the LDEQ's LUST Site Universe file and other applicable UST incident data files.

***Government Publication Date: Oct 4, 2023***

***Historical Leaking Underground Storage Tanks:*** LUST HISTORICAL

The Historical Leaking Underground Storage Tank database provides descriptive leaking facility reports from the Louisiana Department of Environmental Quality's Underground Storage Tanks Case History System. This database has not been updated since 1999.

***Government Publication Date: Mar 26, 1999***

***Delisted Leaking Underground Storage Tanks:*** DELISTED LUST

Once a remediation is complete, the record is classified as 'no further action' and the Lousiana Department of Environmental Quality (LDEQ) removes the record from the Leaking Underground Storage Tank (LUST) list.

***Government Publication Date: Oct 4, 2023***

***Underground Storage Tanks:*** UST

This list of underground storage tank (UST) sites is made available by the Louisiana Department of Environmental Quality (LDEQ). The LDEQ UST Program's goal is to protect human health and the environment by preventing releases of petroleum and hazardous substances from UST systems. These UST sites are compiled from the LDEQ's Electronic Document Management System (EDMS), TEMPO Data System, and other applicable UST data files.

***Government Publication Date: Oct 4, 2023***

***No Longer Reported Underground Storage Tanks:*** UST HISTORICAL

This Underground Storage Tank listing originates from the no longer active PEL filing system of the Louisiana Department of Environmental Quality.

***Government Publication Date: Feb 1, 2004***

***Delisted Storage Tank:*** DELISTED TANK

The list of aboveground and underground storage tanks maintained by Louisiana Department of Environmental Quality (LDEQ), would remove a record that are exempted from the government regulations. This list contains all such records that exempted from regulation.

***Government Publication Date: Oct 4, 2023***

***Institutional Controls:*** INST

A list of Voluntary Remediation Program sites with Institutional Controls (ICs) maintained by Louisiana Department of Environmental Quality (Louisiana DEQ).

***Government Publication Date: Oct 30, 2023***

***Voluntary Remediation Program Sites:*** VCP

A list of sites involved in Voluntary Remediation Program (VRP) managed by Louisiana Department of Environmental Quality (LDEQ). The Louisiana VRP provides a mechanism by which property owners (or potential owners) or others can clean up contaminated properties and receive a release of liability for further cleanup of historical contamination at a site. This release of liability flows to future owners of the property as well.

***Government Publication Date: Oct 30, 2023***

***Evaluated and Closed Sites:*** EVAL AND CLOSED

The Remediation Division of the Louisiana Department of Environmental Quality (LDEQ) includes sites on their Evaluated and Closed (EAC) list when (a) some sort of remediation (either investigation and/or corrective action) has taken place, or (b) after an initial review, a determination has been made that the site does not fall under their jurisdiction. Sites included on this list fall under various LDEQ Programs such as, but not limited to, the following: Brownfields, Confirmed and/or Potential, Groundwater, Hazardous Waste, Inactive and Abandoned Sites, Solid Waste, Underground Storage Tanks, Voluntary Remediation.

***Government Publication Date: Oct 4, 2023***

## *Tribal*

***Leaking Underground Storage Tanks on Tribal/Indian Lands:*** INDIAN LUST

This list of leaking underground storage tanks (LUSTs) on Tribal/Indian Lands in Region 6, which includes Louisiana, is provided by the United States Environmental Protection Agency (EPA).

***Government Publication Date: Apr 26, 2023***

***Underground Storage Tanks on Tribal/Indian Lands:*** INDIAN UST

This list of underground storage tanks (USTs) on Tribal/Indian Lands in Region 6, which includes Louisiana, is provided by the United States Environmental Protection Agency (EPA).

***Government Publication Date: Apr 26, 2023***

***Delisted Tribal Leaking Storage Tanks:*** DELISTED INDIAN LST

Leaking Underground Storage Tank (LUST) facilities which once appeared on - and have since been removed from - the Regional Tribal/Indian LUST lists made available by the United States Environmental Protection Agency (EPA).

***Government Publication Date: Apr 26, 2023***

***Delisted Tribal Underground Storage Tanks:*** DELISTED INDIAN UST

Underground Storage Tank (UST) facilities which once appeared on - and have since been removed from - the Regional Tribal/Indian UST lists made available by the United States Environmental Protection Agency (EPA).

***Government Publication Date: Apr 26, 2023***

## *County*

***No County databases were selected to be included in the search.***

## *Additional Environmental Record Sources*

### *Federal*

***Facility Registry Service/Facility Index:*** FINDS/FRS

The Facility Registry Service (FRS) is a centrally managed database that identifies facilities, sites, or places subject to environmental regulations or of environmental interest. FRS creates high-quality, accurate, and authoritative facility identification records through rigorous verification and management procedures that incorporate information from program national systems, state master facility records, and data collected from EPA's Central Data Exchange registrations and data management personnel. This list is made available by the U.S. Environmental Protection Agency (EPA).

***Government Publication Date: Sep 8, 2023***

***Toxics Release Inventory (TRI) Program:*** TRIS

The U.S. Environmental Protection Agency's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of toxic chemicals from U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment. There are currently 770 individually listed chemicals and 33 chemical categories covered by the TRI Program. Facilities that manufacture, process or otherwise use these chemicals in amounts above established levels must submit annual reporting forms for each chemical. Note that the TRI chemical list does not include all toxic chemicals used in the U.S. One of TRI's primary purposes is to inform communities about toxic chemical releases to the environment.

***Government Publication Date: Oct 19, 2022***

***PFOA/PFOS Contaminated Sites:*** PFAS NPL

This list of Superfund Sites with Per- and Polyfluoroalkyl Substances (PFAS) detections is made available by the U.S. Environmental Protection Agency (EPA) in their PFAS Analytic Tools data, previously the list was obtained by EPA FOIA requests. EPA's Office of Land and Emergency Management and EPA Regional Offices maintain what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment. Limitations: Detections of PFAS at National Priorities List (NPL) sites do not mean that people are at risk from PFAS, are exposed to PFAS, or that the site is the source of the PFAS. The information in the Superfund NPL and Superfund Alternative Agreement (SAA) PFAS detection site list is years old and may not be accurate today. Site information such as site name, site ID, and location has been confirmed for accuracy; however, PFAS-related information such as media sampled, drinking water being above the health advisory, or mitigation efforts has not been verified. For Federal Facilities data, the other Federal agencies (OFA) are the lead agency for their data and provided them to EPA.

***Government Publication Date: Sep 14, 2023***

***Federal Agency Locations with Known or Suspected PFAS Detections:*** PFAS FED SITES

List of Federal agency locations with known or suspected detections of Per- and Polyfluoroalkyl Substances (PFAS), made available by the U.S. Environmental Protection Agency (EPA) in their PFAS Analytic Tools data. EPA outlines that these data are gathered from several federal entities, such as the Federal Superfund program, Department of Defense (DOD), National Aeronautics and Space Administration, Department of Transportation, and Department of Energy. The dates this data was extracted for the PFAS Analytic Tools range from March 2022 to September 2023. Sites on this list do not necessarily reflect the source/s of PFAS contamination and detections do not indicate level of risk or human exposure at the site. Agricultural notifications in this data are limited to DOD sites only. At this time, the EPA is aware that this list is not comprehensive of all Federal agencies.

***Government Publication Date: Sep 5, 2023***

***SSEHRI PFAS Contamination Sites:*** PFAS SSEHRI

This PFAS Contamination Site Tracker database is compiled by the Social Science Environmental Health Research Institute (SSEHRI) at Northeastern University. According to the SSEHRI, the database records qualitative and quantitative data from each known site of PFAS contamination, including timeline of discovery, sources, levels, health impacts, community response, and government response. The goal of this database is to compile information and support public understanding of the rapidly unfolding issue of PFAS contamination. All data presented was extracted from government websites, news articles, or publicly available documents, and this is cited in the tracker. Locations for the Known PFAS Contamination Sites are sourced from the PFAS Sites and Community Resources Map, credited to the Northeastern University's PFAS Project Lab, Silent Spring Institute, and the PFAS-REACH team. Disclaimer: The source conveys the data undergoes regular updates as new information becomes available, some sites may be missing and/or contain information that is incorrect or outdated, as well as their information represents all contamination sites SSEHRI is aware of, not all possible contamination sites. This data is not intended to be used for legal purposes. Access the following source link for the most current information: https://pfasproject.com/pfas-sites-and-community-resources/

***Government Publication Date: Oct 9, 2022***

***National Response Center PFAS Spills:*** ERNS PFAS

This Per- and Poly-Fluoroalkyl Substances (PFAS) Spills dataset is made available via the U.S. Environmental Protection Agency's (EPA) PFAS Analytic Tools. The National Response Center (NRC), operated by the U.S. Coast Guard, is the designated federal point of contact for reporting all oil, chemical, and other discharges into the environment, for the United States and its territories. This dataset contains NRC spill information from 1990 to the present that is restricted to records associated with PFAS and PFAS-containing materials. Incidents are filtered to include only records with a "Material Involved" or "Incident Description" related to Aqueous Film Forming Foam (AFFF). The keywords used to filter the data included "AFFF," "Fire Fighting Foam," "Aqueous Film Forming Foam," "Fire Suppressant Foam, "PFAS," "PERFL," "PFOA," "PFOS," and "Genx." Limitations: The data from the NRC website contains initial incident data that has not been validated or investigated by a federal/state response agency. Keyword searches may misidentify some incident reports that do not contain PFAS. This dataset should also not be considered to be exhaustive of all PFAS spills/release incidents.

***Government Publication Date: Sep 23, 2023***

***PFAS NPDES Discharge Monitoring:*** PFAS NPDES

This list of National Pollutant Discharge Elimination System (NPDES) permitted facilities with required monitoring for Per- and Polyfluoroalkyl (PFAS) Substances is made available via the U.S. Environmental Protection Agency (EPA)'s PFAS Analytic Tools. Any point-source wastewater discharger to waters of the United States must have a NPDES permit, which defines a set of parameters for pollutants and monitoring to ensure that the discharge does not degrade water quality or impair human health. This list includes NPDES permitted facilities associated with permits that monitor for Per- and Polyfluoroalkyl Substances (PFAS), limited to the years 2007 - present. EPA further advises the following regarding these data: currently, fewer than half of states have required PFAS monitoring for at least one of their permittees, and fewer states have established PFAS effluent limits for permittees. For states that may have required monitoring, some reporting and data transfer issues may exist on a state-by-state basis.

***Government Publication Date: Sep 4, 2023***

***Perfluorinated Alkyl Substances (PFAS) from Toxic Release Inventory:*** PFAS TRI

List of Toxics Release Inventory (TRI) facilities at which the reported chemical is a per- or polyfluoroalkyl (PFAS) substance included in the U.S. Environmental Protection Agency's (EPA) consolidated PFAS Master List of PFAS Substances. Encompasses Toxics Release Inventory records included in the EPA PFAS Analytic Tools. The EPA's TRI database currently tracks information on disposal or releases of 770 individually listed toxic chemicals and 33 chemical categories from thousands of U.S. facilities and details about how facilities manage those chemicals through recycling, energy recovery, and treatment.

***Government Publication Date: Oct 19, 2022***

***Perfluorinated Alkyl Substances (PFAS) Water Quality:*** PFAS WATER

The Water Quality Portal (WQP) is a cooperative service sponsored by the United States Geological Survey (USGS), the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC). This listing includes records from the Water Quality Portal where the characteristic (environmental measurement) is in the Environmental Protection Agency (EPA)'s consolidated Master List of PFAS Substances.

***Government Publication Date: Jul 20, 2020***

***PFAS TSCA Manufacture and Import Facilities:*** PFAS TSCA

The U.S. Environmental Protection Agency (EPA) issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. This list is specific only to TSCA Manufacture and Import Facilities with reported per- and poly-fluoroalkyl (PFAS) substances. Data file is sourced from EPA's PFAS Analytic Tools TSCA dataset which includes CDR/Inventory Update Reporting data from 1998 up to 2020. Disclaimer: This data file includes production and importation data for chemicals identified in EPA's CompTox Chemicals Dashboard list of PFAS without explicit structures and list of PFAS structures in DSSTox. Note that some regulations have specific chemical structure requirements that define PFAS differently than the lists in EPA's CompTox Chemicals Dashboard. Reporting information on manufactured or imported chemical substance amounts should not be compared between facilities, as some companies claim Chemical Data Reporting Rule data fields for PFAS information as Confidential Business Information.

***Government Publication Date: Jan 5, 2023***

***PFAS Waste Transfers from RCRA e-Manifest :*** PFAS E-MANIFEST

This Per- and Poly-Fluoroalkyl Substances (PFAS) Waste Transfers dataset is made available via the U.S. Environmental Protection Agency's (EPA) PFAS Analytic Tools. Every shipment of hazardous waste in the U.S. must be accompanied by a shipment manifest, which is a critical component of the cradle-to-grave tracking of wastes mandated by the Resource Conservation and Recovery Act (RCRA). According to the EPA, currently no Federal Waste Code exists for any PFAS compounds. To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: • PFAS • PFOA • PFOS • PERFL • AFFF • GENX • GEN-X (plus the Vermont state-specific waste codes). Limitations: Amount or concentration of PFAS being transferred cannot be determined from the manifest information. Keyword searches may misidentify some manifest records that do not contain PFAS. This dataset should also not be considered to be exhaustive of all PFAS waste transfers.

***Government Publication Date: Oct 11, 2023***

***PFAS Industry Sectors:*** PFAS IND

This Per- and Poly-Fluoroalkyl Substances (PFAS) Industry Sectors dataset is made available via the U.S. Environmental Protection Agency's (EPA) PFAS Analytic Tools. The EPA developed the dataset from various sources that show which industries may be handling PFAS including: EPA's Enforcement and Compliance History Online (ECHO) records restricted to potential PFAS-handling industry sectors; ECHO records for Fire Training Sites identified where fire-fighting foam may have been used in training exercises; and 14 CFR Part 139 Airports compiled from historic and current records from the FAA Airport Data and Information Portal. Since July 2006, all certificated Part 139 Airports are required to have fire-fighting foam onsite that meet certain military specifications, which to date have been fluorinated (Aqueous Film Forming Foam). Limitations: Inclusion in this dataset does not indicate that PFAS are being manufactured, processed, used, or released by the facility. Listed facilities potentially handle PFAS based on their industrial profile, but are unconfirmed by the EPA. Keyword searches in ECHO for Fire Training sites may misidentify some facilities and should not be considered to be an exhaustive list of fire training facilities in the U.S.

***Government Publication Date: Apr 16, 2023***

***Hazardous Materials Information Reporting System:*** HMIRS

The Hazardous Materials Incident Reporting System (HMIRS) database contains unintentional hazardous materials release information reported to the U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration.

***Government Publication Date: Mar 6, 2023***

***National Clandestine Drug Labs:*** NCDL

The U.S. Department of Justice ("the Department"), Drug Enforcement Administration (DEA), provides this data as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy.

***Government Publication Date: Jul 26, 2023***

***Toxic Substances Control Act:*** TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The CDR enables EPA to collect and publish information on the manufacturing, processing, and use of commercial chemical substances and mixtures (referred to hereafter as chemical substances) on the TSCA Chemical Substance Inventory (TSCA Inventory). This includes current information on chemical substance production volumes, manufacturing sites, and how the chemical substances are used. This information helps the Agency determine whether people or the environment are potentially exposed to reported chemical substances. EPA publishes submitted CDR data that is not Confidential Business Information (CBI).

***Government Publication Date: Apr 11, 2019***

***Hist TSCA:*** HIST TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The 2006 IUR data summary report includes information about chemicals manufactured or imported in quantities of 25,000 pounds or more at a single site during calendar year 2005. In addition to the basic manufacturing information collected in previous reporting cycles, the 2006 cycle is the first time EPA collected information to characterize exposure during manufacturing, processing and use of organic chemicals. The 2006 cycle also is the first time manufacturers of inorganic chemicals were required to report basic manufacturing information.

***Government Publication Date: Dec 31, 2006***

***FTTS Administrative Case Listing:*** FTTS ADMIN

An administrative case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

***Government Publication Date: Jan 19, 2007***

***FTTS Inspection Case Listing:*** FTTS INSP

An inspection case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

***Government Publication Date: Jan 19, 2007***

***Potentially Responsible Parties List:*** PRP

Early in the site cleanup process, the U.S. Environmental Protection Agency (EPA) conducts a search to find the Potentially Responsible Parties (PRPs). The EPA looks for evidence to determine liability by matching wastes found at the site with parties that may have contributed wastes to the site. This listing contains PRPs, Noticed Parties, at sites in the EPA's Superfund Enterprise Management System (SEMS).

***Government Publication Date: Oct 26, 2023***

***State Coalition for Remediation of Drycleaners Listing:*** SCRD DRYCLEANER

The State Coalition for Remediation of Drycleaners (SCRD) was established in 1998, with support from the U.S. Environmental Protection Agency (EPA) Office of Superfund Remediation and Technology Innovation. Coalition members are states with mandated programs and funding for drycleaner site remediation. Current members are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin. Since 2017, the SCRD no longer maintains this data, refer to applicable state source data where available.

***Government Publication Date: Nov 08, 2017***

***Integrated Compliance Information System (ICIS):*** ICIS

The Integrated Compliance Information System (ICIS) database contains integrated enforcement and compliance information across most of U.S. Environmental Protection Agency's (EPA) programs. The vision for ICIS is to replace EPA's independent databases that contain enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions and a subset of the Permit Compliance System (PCS), which supports the National Pollutant Discharge Elimination System (NPDES). This information is maintained by the EPA Headquarters and at the Regional offices. A future release of ICIS will completely replace PCS and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities that support compliance and enforcement programs, including incident tracking, compliance assistance, and compliance monitoring.

***Government Publication Date: Jan 21, 2023***

***Drycleaner Facilities:*** FED DRYCLEANERS

A list of drycleaner facilities from Enforcement and Compliance History Online (ECHO) data as made available by the U.S. Environmental Protection Agency (EPA), sourced from the ECHO Exporter file. The EPA tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments.

***Government Publication Date: Jul 23, 2023***

***Delisted Drycleaner Facilities:*** DELISTED FED DRY

List of sites removed from the list of Drycleaner Facilities (sites in the EPA's Integrated Compliance Information System (ICIS) with NAIC or SIC codes identifying the business as a drycleaner establishment).

***Government Publication Date: Jul 23, 2023***

***Formerly Used Defense Sites:*** FUDS

Formerly Used Defense Sites (FUDS) are properties that were formerly owned by, leased to, or otherwise possessed by and under the jurisdiction of the Secretary of Defense prior to October 1986, where the Department of Defense (DOD) is responsible for an environmental restoration. The FUDS Annual Report to Congress (ARC) is published by the U.S. Army Corps of Engineers (USACE). This data is compiled from the USACE's Geospatial FUDS data layers and Homeland Infrastructure Foundation-Level Data (HIFLD) FUDS dataset.

***Government Publication Date: Jul 12, 2022***

***FUDS Munitions Response Sites:*** FUDS MRS

Boundaries of Munitions Response Sites (MRS), published with the Formerly Used Defense Sites (FUDS) Annual Report to Congress (ARC) by the U.S. Army Corps of Engineers (USACE). An MRS is a discrete location within a Munitions response area (MRA) that is known to require a munitions response. An MRA means any area on a defense site that is known or suspected to contain unexploded ordnance (UXO), discarded military munitions (DMM), or munitions constituents (MC). This data is compiled from the USACE's Geospatial MRS data layers and Homeland Infrastructure Foundation-Level Data (HIFLD) MRS dataset.

***Government Publication Date: Jul 12, 2022***

***Former Military Nike Missile Sites:*** FORMER NIKE

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970's. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites. During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.

***Government Publication Date: Dec 2, 1984***

***PHMSA Pipeline Safety Flagged Incidents:*** PIPELINE INCIDENT

A list of flagged pipeline incidents made available by the U.S. Department of Transportation (US DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA). PHMSA regulations require incident and accident reports for five different pipeline system types.

***Government Publication Date: Dec 30, 2022***

***Material Licensing Tracking System (MLTS):*** MLTS

A list of sites that store radioactive material subject to the Nuclear Regulatory Commission (NRC) licensing requirements. This list is maintained by the NRC. As of September 2016, the NRC no longer releases location information for sites. Site locations were last received in July 2016.

***Government Publication Date: May 11, 2021***

***Historic Material Licensing Tracking System (MLTS) sites:*** HIST MLTS

A historic list of sites that have inactive licenses and/or removed from the Material Licensing Tracking System (MLTS). In some cases, a site is removed from the MLTS when the state becomes an "Agreement State". An Agreement State is a State that has signed an agreement with the Nuclear Regulatory Commission (NRC) authorizing the State to regulate certain uses of radioactive materials within the State.

***Government Publication Date: Jan 31, 2010***

***Mines Master Index File:*** MINES

The Master Index File (MIF) is provided by the United States Department of Labor, Mine Safety and Health Administration (MSHA). This file, which was originally created in the 1970's, contained many Mine-IDs that were invalid. MSHA removes invalid IDs from the MIF upon discovery. MSHA applicable data includes the following: all Coal and Metal/Non-Metal mines under MSHA's jurisdiction since 1/1/1970; mine addresses for all mines in the database except for Abandoned mines prior to 1998 from MSHA's legacy system (addresses may or may not correspond with the physical location of the mine itself); violations that have been assessed penalties as a result of MSHA inspections beginning on 1/1/2000; and violations issued as a result of MSHA inspections conducted beginning on 1/1/2000.

***Government Publication Date: May 1, 2023***

***Surface Mining Control and Reclamation Act Sites:*** SMCRA

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by the Office of Surface Mining Reclamation and Enforcement (OSMRE) to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). This inventory contains information on the type and extent of Abandoned Mine Land (AML) impacts, as well as information on the cost associated with the reclamation of those problems. The data is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed. Disclaimer: Per the OSMRE, States and tribes who enter their data into eAMLIS (AML Inventory System) may truncate their latitude and longitude so the precise location of usually dangerous AMLs is not revealed in an effort to protect the public from searching for these AMLs, most of which are on private property. If more precise location information is needed, please contact the applicable state/tribe of interest.

***Government Publication Date: Jun 13, 2023***

***Mineral Resource Data System:*** MRDS

The Mineral Resource Data System (MRDS) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS. The USGS has ceased systematic updates of the MRDS database with their focus more recently on deposits of critical minerals while providing a well-documented baseline of historical mine locations from USGS topographic maps.

***Government Publication Date: Mar 15, 2016***

***DOE Legacy Management Sites:*** LM SITES

The U.S. Department of Energy (DOE) Office of Legacy Management (LM) currently manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The LM manages sites with diverse regulatory drivers (statutes or programs that direct cleanup and management requirements at DOE sites) or as part of internal DOE or congressionally-recognized programs, such as but not limited to: Formerly Utilized Sites Remedial Action Program (FUSRAP), Uranium Mill Tailings Radiation Control Act (UMTRCA Title I, Tile II), Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Resource Conservation and Recovery Act (RCRA), Decontamination and Decommissioning (D&D), Nuclear Waste Policy Act (NWPA). This site listing includes data exported from the DOE Office of LM's Geospatial Environmental Mapping System (GEMS). GEMS Data disclaimer: The DOE Office of LM makes no representation or warranty, expressed or implied, regarding the use, accuracy, availability, or completeness of the data presented herein.

***Government Publication Date: May 25, 2023***

***Alternative Fueling Stations:*** ALT FUELS

This list of alternative fueling stations is sourced from the Alternative Fuels Data Center (AFDC). The U.S. Department of Energy's Office of Energy Efficiency & Renewable Energy launched the AFDC in 1991 as a repository for alternative fuel vehicle performance data, which provides a wealth of information and data on alternative and renewable fuels, advanced vehicles, fuel-saving strategies, and emerging transportation technologies. The data includes Biodiesel (B20 and above), Compressed Natural Gas (CNG), Electric, Ethanol (E85), Hydrogen, Liquefied Natural Gas (LNG), Propane (LPG), and Renewable Diesel (R20 and above) fuel type locations.

***Government Publication Date: Aug 30, 2023***

***Superfunds Consent Decrees:*** CONSENT DECREES

This list of Superfund consent decrees is provided by the Department of Justice, Environment & Natural Resources Division (ENRD) through a Freedom of Information Act (FOIA) applicable file. This listing includes Consent Decrees for CERCLA or Superfund Sites filed and/or as proposed within the ENRD's Case Management System (CMS) since 2010. CMS may not reflect the latest developments in a case nor can the agency guarantee the accuracy of the data. ENRD Disclaimer: Congress excluded three discrete categories of law enforcement and national security records from the requirements of the FOIA; response is limited to those records that are subject to the requirements of the FOIA; however, this should not be taken as an indication that excluded records do, or do not, exist.

***Government Publication Date: Apr 19, 2023***

***Air Facility System:*** AFS

This EPA retired Air Facility System (AFS) dataset contains emissions, compliance, and enforcement data on stationary sources of air pollution. Regulated sources cover a wide spectrum; from large industrial facilities to relatively small operations such as dry cleaners. AFS does not contain data on facilities that are solely asbestos demolition and/or renovation contractors, or landfills. ECHO Clean Air Act data from AFS are frozen and reflect data as of October 17, 2014; the EPA retired this system for Clean Air Act stationary sources and transitioned to ICIS-Air.

***Government Publication Date: Oct 17, 2014***

***Registered Pesticide Establishments:*** SSTS

This national list of active EPA-registered foreign and domestic pesticide and/or device-producing establishments is based on data from the Section Seven Tracking System (SSTS). The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Section 7 requires that each producing establishment must place its EPA establishment number on the label or immediate container of each pesticide, active ingredient or device produced. An EPA establishment number on a pesticide product label identifies the EPA registered location where the product was produced. The list of establishments is made available by the U.S. Environmental Protection Agency (EPA).

***Government Publication Date: Mar 1, 2023***

***Polychlorinated Biphenyl (PCB) Transformers:*** PCBT

Locations of Transformers Containing Polychlorinated Biphenyls (PCBs) registered with the United States Environmental Protection Agency. PCB transformer owners must register their transformer(s) with EPA. Although not required, PCB transformer owners who have removed and properly disposed of a registered PCB transformer may notify EPA to have their PCB transformer de-registered. Data made available by EPA.

***Government Publication Date: Oct 15, 2019***

***Polychlorinated Biphenyl (PCB) Notifiers:*** PCB

Facilities included in the national list of facilities that have notified the United States Environmental Protection Agency (EPA) of Polychlorinated Biphenyl (PCB) activities. Any company or person storing, transporting or disposing of PCBs or conducting PCB research and development must notify the EPA and receive an identification number.

***Government Publication Date: Mar 20, 2023***

## *State*

***Emergency Response Section Incidents:*** SPILLS

A list of reported spills and releases to the Louisiana Department of Environmental Quality (LDEQ).

***Government Publication Date: Oct 10, 2023***

***Waste Pits:*** WASTE PITS

This listing is from a 1999 Louisiana Oil Spill Coordinator's Office (LOSCO) study, which identified statewide abandoned non-hazardous waste pits and facilities that have the potential to initiate an oil spill.

***Government Publication Date: Jan 1, 1999***

***Environmental Liens:*** LIENS

A list of sites with Environmental Liens managed by Louisiana Department of Environmental Quality (LDEQ). An environmental lien is a charge, security, or encumbrance on a property's title to secure payment of cost or debt arising from response actions, cleanup, or other remediation of hazardous substances or petroleum products.

***Government Publication Date: Nov 18, 2022***

***Dry Cleaning Facilities:*** DRYCLEANERS

A listing of dry cleaning facilities registered with the Louisiana Department of Environmental Quality (LDEQ).

***Government Publication Date: Oct 24, 2023***

***Delisted Drycleaners:*** DELISTED DRYCLEANERS

Sites removed from the list of dry cleaning registered facilities, made available by the Louisiana Department of Environmental Quality (LDEQ).

***Government Publication Date: Oct 24, 2023***

***Per- and Polyfluoroalkyl Substances (PFAS):*** PFAS

A list of sites where Per- and Polyfluoroalkyl Substances (PFAS) have been detected in soil and groundwater samples. This list is made available by the Louisiana Department of Environmental Quality (LDEQ).

***Government Publication Date: Jul 21, 2023***

***Asbestos Demolition and Renovation Notification Projects:*** ASBESTOS

This listing of Asbestos Demolition and Renovation Projects is provided by the Louisiana Department of Environmental Quality (DEQ). In accordance with the DEQ Air Quality Regulations, LAC 33:III.5151.F.1.f, any contractor performing removal of asbestos containing material that involves Regulated Asbestos Containing Material (see definition in LAC 33:III.5151.B) must become licensed by the Louisiana State Licensing Board for Contractors.

***Government Publication Date: Dec 31, 2022***

***Waste Tire Generator List:*** WASTE TIRE GEN

This listing of registered waste tire generators is maintained by the Louisiana Department of Environmental Quality.

***Government Publication Date: Jul 6, 2023***

***Clandestine Methamphetamine Labs:*** CDL

List of Clandestine Methamphetamine Labs (residential real properties) that have been reported as potentially contaminated to the Louisiana Department of Environmental Quality (LDEQ).

***Government Publication Date: Jan 30, 2018***

## *Tribal*

***No Tribal additional environmental record sources available for this State.***

## *County*

***No County additional environmental databases were selected to be included in the search.***

# Definitions

***Database Descriptions:*** This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

***Detail Report***: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

***Distance:*** The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

***Direction:*** The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

***Elevation:*** The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

***Executive Summary:*** This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

***Map Key:*** The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

***Unplottables:*** These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

# HISTORICAL AERIALS

**Project Property:** Red River Parish Port Site
n/a
Coushatta LA

**Project No:**

**Requested By:** GeoEngineers, Inc.

**Order No:** 23112100939

**Date Completed:** November 29,2023



**Environmental Risk Information Services**
*A division of Glacier Media Inc.*
1.866.517.5204 | info@erisinfo.com | erisinfo.com

| Date | Source | Scale | Comments |
|---|---|---|---|
| 2022 | Maxar Technologies | 1" = 500' | |
| 2021 | United States Department of Agriculture | 1" = 500' | |
| 2019 | United States Department of Agriculture | 1" = 500' | |
| 2017 | United States Department of Agriculture | 1" = 500' | |
| 2015 | United States Department of Agriculture | 1" = 500' | |
| 2013 | United States Department of Agriculture | 1" = 500' | |
| 2010 | United States Department of Agriculture | 1" = 500' | |
| 2009 | United States Department of Agriculture | 1" = 500' | |
| 2007 | United States Department of Agriculture | 1" = 500' | |
| 2006 | United States Department of Agriculture | 1" = 500' | |
| 2005 | United States Department of Agriculture | 1" = 500' | |
| 2004 | United States Geological Survey | 1" = 500' | |
| 1998 | United States Geological Survey | 1" = 500' | |
| 1994 | United States Geological Survey | 1" = 500' | |
| 1982 | United States Geological Survey | 1" = 500' | |
| 1974 | United States Geological Survey | 1" = 500' | |
| 1959 | Agricultural Stabilization & Conserv. Service | 1" = 500' | |
| 1950 | Agricultural Stabilization & Conserv. Service | 1" = 500' | |
| 1940 | Agricultural Stabilization & Conserv. Service | 1" = 500' | |


Year: 2022
Source: MAXAR
Scale: 1" = 500'
Comment:

Address: n/a, Coushatta, LA
Approx Center: -93.34060758,31.9585299

Order No: 23112100939

ERIS


Year: 2021
Source: USDA
Scale: 1" = 500'
Comment:

Address: n/a, Coushatta, LA
Approx Center: -93.34060758,31.9585299

Order No: 23112100939

ERIS


Year: 2019
Source: USDA
Scale: 1" = 500'
Comment:

Address: n/a, Coushatta, LA
Approx Center: -93.34060758,31.9585299

Order No: 23112100939

ERIS


Year: 2017
Source: USDA
Scale: 1" = 500'
Comment:

Address: n/a, Coushatta, LA
Approx Center: -93.34060758,31.9585299

Order No: 23112100939

ERIS


Year: 2015
Source: USDA
Scale: 1" = 500'
Comment:

Address: n/a, Coushatta, LA
Approx Center: -93.34060758,31.9585299

Order No: 23112100939

ERIS


Year: 2013
Source: USDA
Scale: 1" = 500'
Comment:

Address: n/a, Coushatta, LA
Approx Center: -93.34060758,31.9585299

Order No: 23112100939

ERIS


Year: 2010
Source: USDA
Scale: 1" = 500'
Comment:

Address: n/a, Coushatta, LA
Approx Center: -93.34060758,31.9585299

Order No: 23112100939

ERIS


Year: 2009
Source: USDA
Scale: 1" = 500'
Comment:

Address: n/a, Coushatta, LA
Approx Center: -93.34060758,31.9585299

Order No: 23112100939

ERIS


Year: 2007
Source: USDA
Scale: 1" = 500'
Comment:

Address: n/a, Coushatta, LA
Approx Center: -93.34060758,31.9585299

Order No: 23112100939

ERIS


Year: 2006
Source: USDA
Scale: 1" = 500'
Comment:

Address: n/a, Coushatta, LA
Approx Center: -93.34060758,31.9585299

Order No: 23112100939

ERIS


Year: 2005
Source: USDA
Scale: 1" = 500'
Comment:

Address: n/a, Coushatta, LA
Approx Center: -93.34060758,31.9585299

Order No: 23112100939

ERIS


Year: 2004
Source: USGS
Scale: 1" = 500'
Comment:

Address: n/a, Coushatta, LA
Approx Center: -93.34060758,31.9585299

Order No: 23112100939

ERIS


Year: 1998
Source: USGS
Scale: 1" = 500'
Comment:

Address: n/a, Coushatta, LA
Approx Center: -93.34060758,31.9585299

Order No: 23112100939

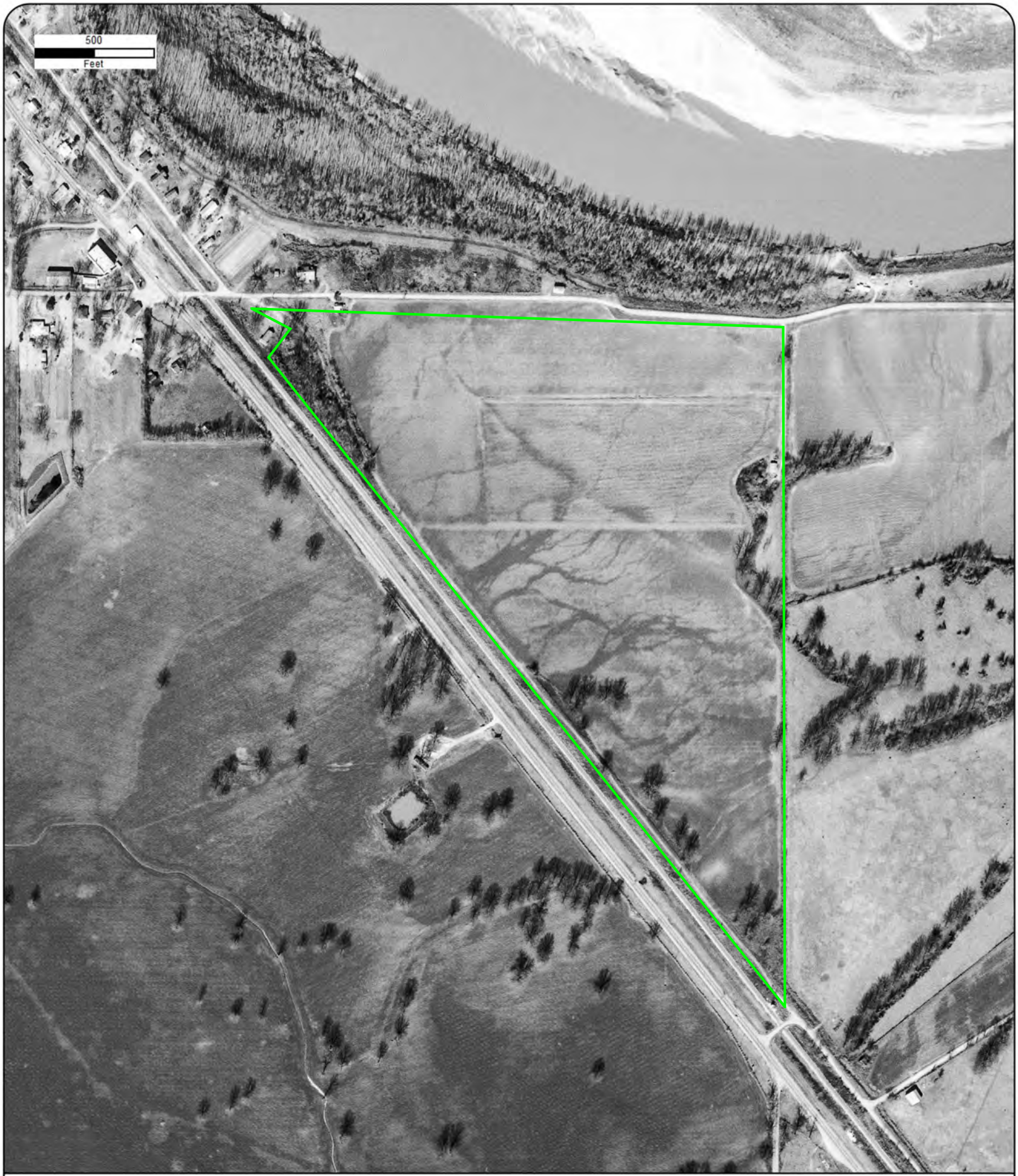
ERIS


Year: 1994
Source: USGS
Scale: 1" = 500'
Comment:

Address: n/a, Coushatta, LA
Approx Center: -93.34060758,31.9585299

Order No: 23112100939

ERIS




Year: 1982
Source: USGS
Scale: 1" = 500'
Comment:

Address: n/a, Coushatta, LA
Approx Center: -93.34060758,31.9585299

Order No: 23112100939

ERIS


Year: 1974
Source: USGS
Scale: 1" = 500'
Comment:

Address: n/a, Coushatta, LA
Approx Center: -93.34060758,31.9585299

Order No: 23112100939

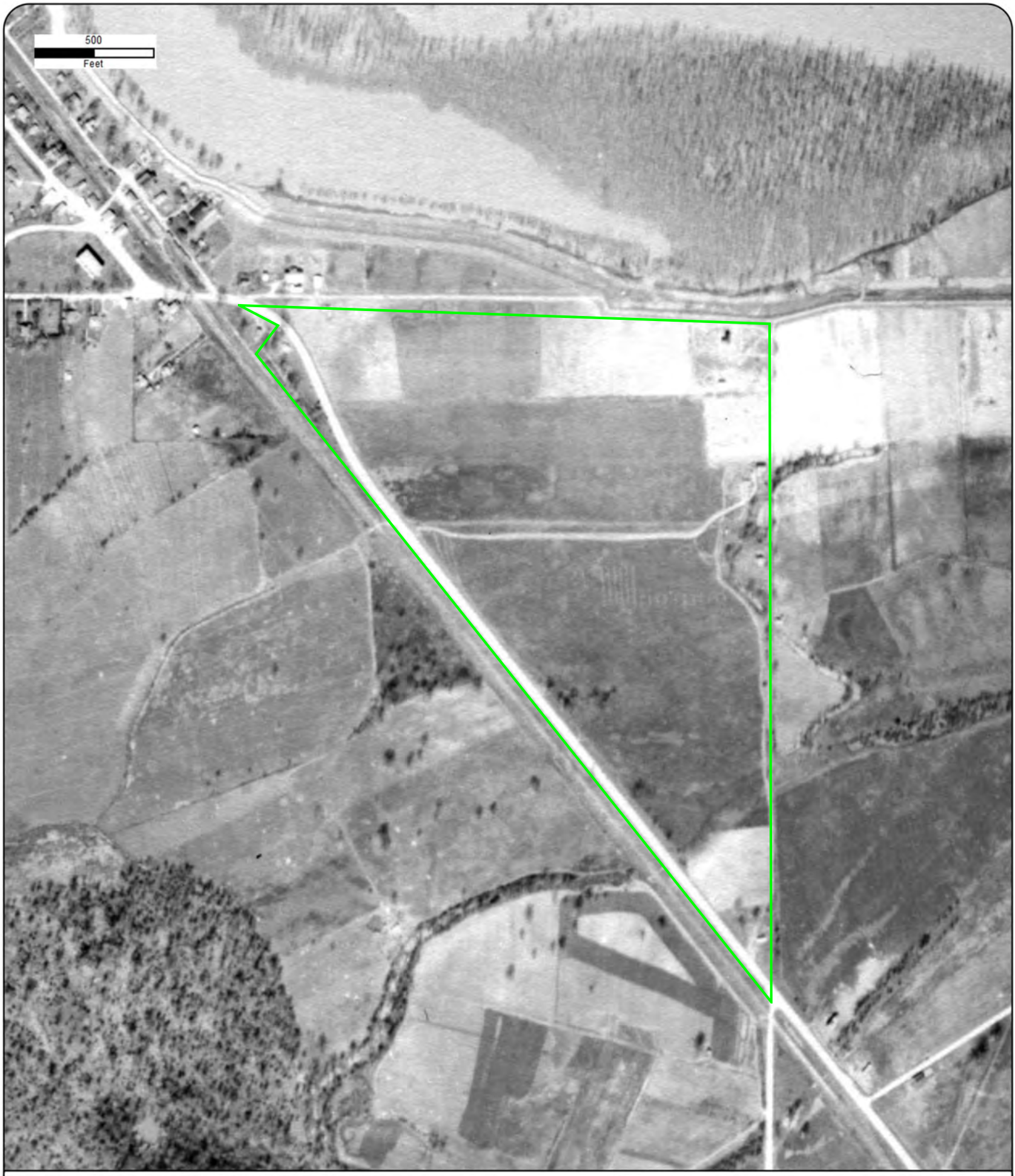
ERIS


Year: 1959
Source: ASCS
Scale: 1" = 500'
Comment:

Address: n/a, Coushatta, LA
Approx Center: -93.34060758,31.9585299

Order No: 23112100939

ERIS

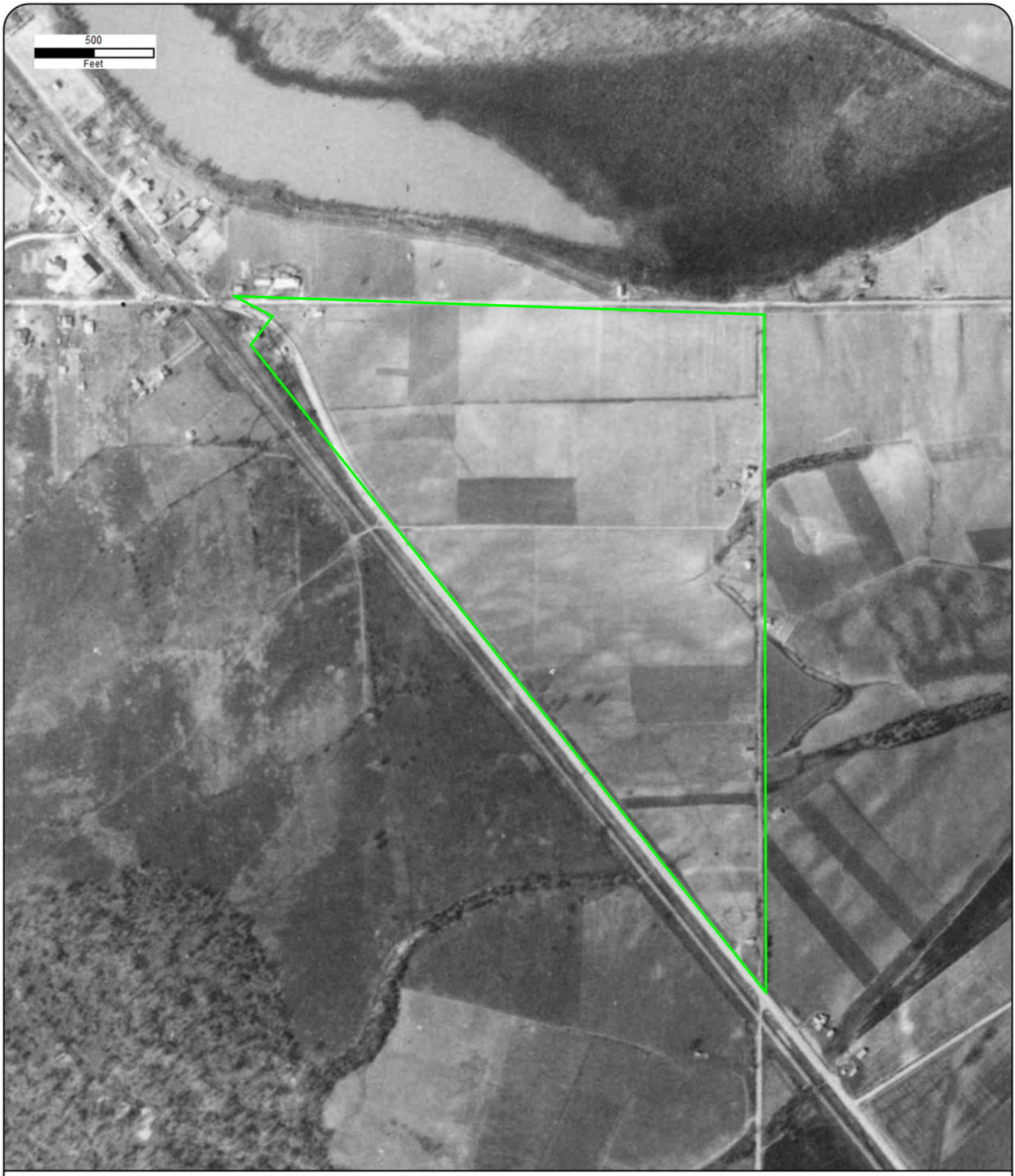



Year: 1950
Source: ASCS
Scale: 1" = 500'
Comment:

Address: n/a, Coushatta, LA
Approx Center: -93.34060758,31.9585299

Order No: 23112100939

ERIS




Year: 1940
Source: ASCS
Scale: 1" = 500'
Comment:

Address: n/a, Coushatta, LA
Approx Center: -93.34060758,31.9585299

Order No: 23112100939

ERIS

# CHAIN OF TITLE

**Project Property:** *500001700, RED RIVER COUSHATTA, LA*
**Order No:** *23112100939-COT1*
**Date Completed:** *12/15/2023*

*ERIS – Environmental Risk Information Services hereby submits the following historical chain-of-title to the land described below.*

*Title to the estate or interest covered by this report appears to be vested in:*

*BRIAN N. BYARS, SOLE TRUSTEE OF THE J.W. COATS TESTAMENTARY TRUST*

*The following is the current property legal description (See deed for full legal description):*

*331 ACRES, MORE OR LESS, SITUATED IN SECTS. 7, 8 & 18-11-9 BEING THAT PORTION OF THE ORIGINAL KENNILWORTH PLANTATION PURCHASED BY J. W. CARNES FROM J. F. STEPHENS (C/B J/787), LESS 18.8 ACRES IN SEC. 8 TO RED RIVER WATERWAY (C/B 234/69); THAT PORTION OF SE 1/4 SEC. 1-11-10 LYING W OF T&P RY. CONT. 3.5 ACRES, LESS 0.24 ACRE TO JOHN DUCO, JR., LESS APPROX. 7 ACRES TO HWY. (C/B 177/795 & 233/171) LESS TRACT 20, SEGMENTS A, B & C (202.7 ACRES) TO RRWW DISTRICT (C/B 264/35)*

*Assessor's Parcel Number(s): 500001700 AND 07110900000003*

# CHAIN OF TITLE REPORT

Order No: *23112100939-COT1*

## HISTORICAL CHAIN OF TITLE

Public Records were searched at the RED RIVER PARISH Assessor's office and the RED RIVER PARISH Clerk's office back to 1963. The following conveyances were found of record.

| | | |
|---|---|---|
| 1. | Deed Type: | EXTRACT OF TRUST |
| | Deed Date: | 03/01/2019 |
| | Recorded: | 04/22/2019 |
| | Grantor: | THE J.W. COATS TESTAMENTARY TRUST |
| | Grantee: | BRIAN N. BYARS, SOLE TRUSTEE OF THE J.W. COATS TESTAMENTARY TRUST |
| | Instrument: | 243592 |
| | Notes: | NA |
| 2. | Deed Type: | SUCCESSION OF J.W. COATS |
| | Deed Date: | 02/27/2013 |
| | Recorded: | 03/04/2013 |
| | Grantor: | THE J.W. COATS TESTAMENTARY TRUST |
| | Grantee: | CAPITAL ONE SUCCESSOR TRUSTEE OF THE J.W. COATS TESTAMENTARY TRUST |
| | Instrument: | 2319 |
| | Notes: | NA |
| 3. | Deed Type: | ORDER |
| | Deed Date: | 04/17/1961 |
| | Recorded: | 04/20/1961 |
| | Grantor: | SUCCESSION OF L.C. COATS |
| | Grantee: | J.W. COATS |
| | Instrument: | 1070 |
| | Notes: | NA |

## LEASES AND MISCELLANEOUS

Comments: NONE IDENTIFIED.

**Thank You for Your Business**
Please contact ERIS at **416-510-5204** or **info@erisinfo.com**
with any questions or comments

**LIMITATION**

This report is neither a guarantee of title, a commitment to insure, or a policy of title insurance. ERIS – Environmental Risk Information Services does not guarantee nor include any warranty of any kind whether expressed or implied, about the validity of all information included in this report since this information is retrieved as it is recorded from various agencies that make it available. The total liability is limited to the fee paid for this report.

# RED RIVER PARISH RECORDING PAGE

Stuart R. Shaw
CLERK OF COURT
PARISH OF RED RIVER
STATE OF LOUISIANA

**CONVEYANCE**
INDEX TYPE

**EXTRACT OF TRUST**
INSTRUMENT

**April 22, 2019 3:44 PM**
RECORDED DATE/TIME

**243592**
INSTRUMENT NUMBER

**6**
RECORDING PAGES

| FIRST VENDOR | FIRST VENDEE |
|---|---|
| J.W. COATS TESTAMENTARY TRUST | COATS CRYSTAL L |

I hereby certify that the attached document was filed for registry and recorded in the Clerk of Court's Office for Red River Parish, Louisiana.

*/s/ Beverly Gary*
Beverly Gary, Deputy Clerk for
STUART R. SHAW, Clerk of Court

PO BOX 485 | Coushatta, LA 71019 | (318) 932-6741
www.redriverclerk.com

**EXTRACT OF TRUST**
**J. W. COATS TESTAMENTARY TRUST**

## I. NAME OF TRUST

The name of the trust is J.W. Coats Testamentary Trust.

## II. STATEMENT OF REVOCABILITY

The trust is an irrevocable trust.

## III. NAME OF SETTLOR

The Settlor is J. W. Coats.

## IV. NAME OF TRUSTEES

The original trustee was Julie Coats Mathis. Capital One N.A. (as successor to Hibernia National Bank) was the first successor trustee. Following Capital One N.A.'s resignation, Brian N. Byars and Timothy L Burke were named successor Co-Trustees. Following the resignation of Timothy L Burke, Brian N. Byars was named sole Trustee. The current sole Trustee is Brian N. Byars.

## V. NAME OF BENEFICIARIES

The beneficiaries of the trust are Crystal L. Coats, Rickey L. Coats and Karen Coats Brooks.

## VI. DATE OF EXECUTION

The Trust Agreement was created under the Will of J. W. Coats dated October 11, 1985 and became effective on his date of death, March 16, 1987.



1206050v 2

## VII. BRIEF DESCRIPTION OF PROPERTY

1. Property lying on the right descending bank of Red River and being located in Sections 5, 7, 8, 10 and 18, Township 11 North, Range 9 West, Red River Parish, Louisiana;

2. The NW ¼ of NW ¼ of Section 18, Township 10 North, Range 10 West, Louisiana Meridian, Natchitoches Parish, Louisiana;

3. Oil, Gas and Mineral Lease recorded in Conveyance Book 100, Page 603, Red River Parish, Louisiana; and

4. Oil, Gas and Mineral Lease in recorded in Conveyance Book 114, Page 77, Red River Parish.

All as recorded in Resignation and Appointment of Successor Co-Trustees and Quitclaim Deed recorded as Conveyance Instrument No. 235990 of Red River Parish and Conveyance Book 689, Page 434, Instrument No. 373578 of Natchitoches Parish, Louisiana.

## VIII. SIGNATURE OF TRUSTEE

Thus done and passed in Atlanta, Georgia, on the 1 day of March, 2019, in the presence of me, notary, after due reading of the whole.

Brian N. Byars, Trustee

KINGSLEY R. ALLEN NOTARY PUBLIC EXPIRES GEORGIA JAN. 31, 2021 NEWTON COUNTY

Kingsley R Allen
Notary Public
Print Name: Kingsley R Allen
Notary/Bar I.D. Number (if applicable):
Newton County, Georgia
My Commission Expires: Jan. 31, 2021

## RESIGNATION OF CO-TRUSTEE

I, Timothy L. Burke, a person of the full age of majority and a resident of the County of Jackson, State of Alabama, hereby resign as Co-Trustee of the J. W. Coats Testamentary Trust created under the will of J. W. Coats dated October 11, 1985 pursuant to the Louisiana Trust Code.

Timothy L. Burke

Date: 5/28/2015

cc: Brian Byars, Co-Trustee
Karen Coats Brooks, Beneficiary
Rickey Coats, Beneficiary
Crystal Coats, Beneficiary

**APPOINTMENT OF SUCCESSOR CO-TRUSTEE**
**TO THE**
**J. W. COATS TESTAMENTARY TRUST**

**WHEREAS,** Karen Coats Brooks, Crystal Coats and Rickey Coats are the beneficiaries of the **J. W. Coats Testamentary Trust** (the "Trust") created under the Will of J. W. Coats dated October 11, 1985;

**WHEREAS,** pursuant to the Consent Judgment dated September 23, 2013 (the "Consent Judgment"), the Trust was amended to provide for two individual Co-Trustees, one appointed by Karen Coats Brooks and one jointly appointed by Crystal Coats and Rickey Coats;

**WHEREAS,** pursuant to the Consent Judgment, Karen Coats Brooks appointed Timothy L. Burke as her individual Co-Trustee and Crystal Coats and Rickey Coats appointed Brian N. Byars as their jointly-appointed individual Co-Trustee;

**WHEREAS,** Timothy L. Burke has resigned as Co-Trustee;

**WHEREAS,** Article 1(g)(5) of the Trust, as amended by the Consent Judgment, provides that if the Co-Trustee appointed by Karen Coats Brooks resigns, she will have the right to appoint the successor Co-Trustee;

**WHEREAS,** Karen Coats Brooks wishes to appoint Brian N. Byars as her individual successor Co-Trustee and Brian N. Byars wishes to accept such appointment;

**WHEREAS,** all of the beneficiaries desire that Brian N. Byars, as the individual Co-Trustee for all of the beneficiaries, act as the sole Trustee of the Trust until he resigns or is removed as an individual Co-Trustee by Karen Coats Brooks or by Crystal Coats and Rickey Coats, acting jointly;

**NOW, THEREFORE,**

1. Karen Coats Brooks hereby appoints Brian N. Byars to serve as her individual Co-Trustee of the Trust.

2. Brian N. Byars accepts the duties and obligations imposed upon him as the individual Co-Trustee of Karen Coats Brooks and he will faithfully discharge the office of Co-Trustee in accordance with the law and with the terms, provisions, and conditions set forth in the trust instrument.

3. Brian N. Byars shall act as the sole Trustee of the Trust during any period in which he is the individual Co-Trustee for all of the beneficiaries.

[*Signatures on following page*]

[illegible]

**IN WITNESS WHEREOF**, the undersigned parties have executed this instrument and agree to execute any and all documents necessary to comply with procedures of custodians holding assets of the Trust.

Karen Coats Brooks, Beneficiary

Rickey Coats, Beneficiary

Crystal Coats, Beneficiary

**ACCEPTED:**

Brian N. Byars

# CHAIN OF TITLE & LIEN SEARCHES

**Project Property:** *500001700, RED RIVER COUSHATTA, LA*
**Order No:** *23112100939-COTEL1*
**Date Completed:** *12/15/2023*

Title to the estate or interest covered by this report appears to be vested in:
*BRIAN N. BYARS, SOLE TRUSTEE OF THE J.W. COATS TESTAMENTARY TRUST*

The following is the current property legal description (See deed for full legal description):
*331 ACRES, MORE OR LESS, SITUATED IN SECTS. 7, 8 & 18-11-9 BEING THAT PORTION OF THE ORIGINAL KENNILWORTH PLANTATION PURCHASED BY J. W. CARNES FROM J. F. STEPHENS (C/B J/787), LESS 18.8 ACRES IN SEC. 8 TO RED RIVER WATERWAY (C/B 234/69); THAT PORTION OF SE 1/4 SEC. 1-11-10 LYING W OF T&P RY. CONT. 3.5 ACRES, LESS 0.24 ACRE TO JOHN DUCO, JR., LESS APPROX. 7 ACRES TO HWY. (C/B 177/795 & 233/171) LESS TRACT 20, SEGMENTS A, B & C (202.7 ACRES) TO RRWW DISTRICT (C/B 264/35)*

Assessor's Parcel Number(s):
*500001700 AND 07110900000003*

## TARGET PROPERTY INFORMATION

ADDRESS

500001700, RED RIVER
COUSHATTA, LA

RESEARCH SOURCES

| | |
|---|---|
| RECORDER: | RED RIVER PARISH RECORDER'S OFFICE |
| ASSESSOR: | RED RIVER PARISH ASSESSOR'S OFFICE |
| STATE: | LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY |
| FEDERAL: | UNITED STATES ENVIRONMENTAL PROTECTION AGENCY |
| OTHER: | JUDICIAL RECORDS NOT SEARCHED. BASED ON AVAILABLE INFORMATION EVALUATED BY THE TITLE SEARCH PROFESSIONAL, THE JURISDICTION DOES NOT REQUIRE A SEARCH OF JUDICIAL RECORDS IN ORDER TO IDENTIFY ENVIRONMENTAL LIENS. |
| NOTES: | PUBLIC RECORDS OF RED RIVER PARISH, LA WERE SEARCHED FROM JANUARY 1, 1980 TO DECEMBER 13, 2023, AND NO OTHER DEEDS VESTING TITLE IN THE SUBJECT PROPERTY WERE FOUND OF RECORD DURING THE PERIOD SEARCHED. |

## ENVIRONMENTAL LIENS

Environmental Lien: [X] NOT FOUND

## ACTIVITY AND USE LIMITATIONS (AULs)

AULs: [X] NOT FOUND

## CHAIN OF TITLE TO 1980

1. Deed Type: EXTRACT OF TRUST
   Deed Date: 03/01/2019
   Recorded: 04/22/2019
   Grantor: THE J.W. COATS TESTAMENTARY TRUST
   Grantee: BRIAN N. BYARS, SOLE TRUSTEE OF THE J.W. COATS TESTAMENTARY TRUST
   Instrument: 243592
   Notes:

2. Deed Type: SUCCESSION OF J.W. COATS
   Deed Date: 02/27/2013
   Recorded: 03/04/2013
   Grantor: THE J.W. COATS TESTAMENTARY TRUST
   Grantee: CAPITAL ONE SUCCESSOR TRUSTEE OF THE J.W. COATS TESTAMENTARY TRUST
   Instrument: 2319
   Notes:

3. Deed Type: ORDER
   Deed Date: 04/17/1961
   Recorded: 04/20/1961
   Grantor: SUCCESSION OF L.C. COATS
   Grantee: J.W. COATS
   Instrument: 1070
   Notes: RESEARCH CONDUCTED BACK TO 1980. THIS IS THE OLDEST DEED OF RECORD FOUND WITHIN SCOPE OF SEARCH.

**LEASES AND MISCELLANEOUS**

Comments: NONE IDENTIFIED.

# ENVIRONMENTAL LIEN TO 1980 REPORT

Order No: *23112100939-COTEL1*

The ERIS Environmental Lien Search Report to 1980 provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied property information to:

- Search for parcel information and / or legal description
- Search for ownership information
- Research official land title documents recorded at jurisdictional agencies such as recorder's' office, registries of deeds, parish clerks' offices, etc.
- Access copies of deeds to 1980
- Search for environmental encumbrance(s) associated with the deeds
- Provide a copy of any environmental encumbrance(s) based upon a review of keywords in the instrument(s) (title, parties involved and description)
- Provide a copy of the deeds or cite documents reviewed

**Thank You for Your Business**
Please contact ERIS at **416-510-5204** or **info@erisinfo.com**
with any questions or comments

**LIMITATION**

This report is neither a guarantee of title, a commitment to insure, or a policy of title insurance. ERIS – Environmental Risk Information Services does not guarantee nor include any warranty of any kind whether expressed or implied, about the validity of all information included in this report since this information is retrieved as it is recorded from various agencies that make it available. The total liability is limited to the fee paid for this report.

# DEED EXHIBIT

# RED RIVER PARISH RECORDING PAGE

Stuart R. Shaw
CLERK OF COURT
PARISH OF RED RIVER
STATE OF LOUISIANA

**CONVEYANCE**
INDEX TYPE

**EXTRACT OF TRUST**
INSTRUMENT

**April 22, 2019 3:44 PM**
RECORDED DATE/TIME

**243592**
INSTRUMENT NUMBER

**6**
RECORDING PAGES

| FIRST VENDOR | FIRST VENDEE |
|---|---|
| J.W. COATS TESTAMENTARY TRUST | COATS CRYSTAL L |

I hereby certify that the attached document was filed for registry and recorded in the Clerk of Court's Office for Red River Parish, Louisiana.

*/s/ Beverly Gary*
Beverly Gary, Deputy Clerk for
STUART R. SHAW, Clerk of Court

PO BOX 485 | Coushatta, LA 71019 | (318) 932-6741
www.redriverclerk.com

**EXTRACT OF TRUST**
**J. W. COATS TESTAMENTARY TRUST**

## I. NAME OF TRUST

The name of the trust is J.W. Coats Testamentary Trust.

## II. STATEMENT OF REVOCABILITY

The trust is an irrevocable trust.

## III. NAME OF SETTLOR

The Settlor is J. W. Coats.

## IV. NAME OF TRUSTEES

The original trustee was Julie Coats Mathis. Capital One N.A. (as successor to Hibernia National Bank) was the first successor trustee. Following Capital One N.A.'s resignation, Brian N. Byars and Timothy L Burke were named successor Co-Trustees. Following the resignation of Timothy L Burke, Brian N. Byars was named sole Trustee. The current sole Trustee is Brian N. Byars.

## V. NAME OF BENEFICIARIES

The beneficiaries of the trust are Crystal L. Coats, Rickey L. Coats and Karen Coats Brooks.

## VI. DATE OF EXECUTION

The Trust Agreement was created under the Will of J. W. Coats dated October 11, 1985 and became effective on his date of death, March 16, 1987.



1206050v 2

## VII. BRIEF DESCRIPTION OF PROPERTY

1. Property lying on the right descending bank of Red River and being located in Sections 5, 7, 8, 10 and 18, Township 11 North, Range 9 West, Red River Parish, Louisiana;

2. The NW ¼ of NW ¼ of Section 18, Township 10 North, Range 10 West, Louisiana Meridian, Natchitoches Parish, Louisiana;

3. Oil, Gas and Mineral Lease recorded in Conveyance Book 100, Page 603, Red River Parish, Louisiana; and

4. Oil, Gas and Mineral Lease in recorded in Conveyance Book 114, Page 77, Red River Parish.

All as recorded in Resignation and Appointment of Successor Co-Trustees and Quitclaim Deed recorded as Conveyance Instrument No. 235990 of Red River Parish and Conveyance Book 689, Page 434, Instrument No. 373578 of Natchitoches Parish, Louisiana.

## VIII. SIGNATURE OF TRUSTEE

Thus done and passed in Atlanta, Georgia, on the 1 day of March, 2019, in the presence of me, notary, after due reading of the whole.

Brian N. Byars, Trustee

KINGSLEY R. ALLEN NOTARY PUBLIC EXPIRES GEORGIA JAN. 31, 2021 NEWTON COUNTY

Kingsley R Allen
Notary Public
Print Name: Kingsley R Allen
Notary/Bar I.D. Number (if applicable):
Newton County, Georgia
My Commission Expires: Jan. 31, 2021

## RESIGNATION OF CO-TRUSTEE

I, Timothy L. Burke, a person of the full age of majority and a resident of the County of Jackson, State of Alabama, hereby resign as Co-Trustee of the J. W. Coats Testamentary Trust created under the will of J. W. Coats dated October 11, 1985 pursuant to the Louisiana Trust Code.

Timothy L. Burke

Date: 5/28/2015

cc: Brian Byars, Co-Trustee
Karen Coats Brooks, Beneficiary
Rickey Coats, Beneficiary
Crystal Coats, Beneficiary

**APPOINTMENT OF SUCCESSOR CO-TRUSTEE**
**TO THE**
**J. W. COATS TESTAMENTARY TRUST**

**WHEREAS,** Karen Coats Brooks, Crystal Coats and Rickey Coats are the beneficiaries of the **J. W. Coats Testamentary Trust** (the "Trust") created under the Will of J. W. Coats dated October 11, 1985;

**WHEREAS,** pursuant to the Consent Judgment dated September 23, 2013 (the "Consent Judgment"), the Trust was amended to provide for two individual Co-Trustees, one appointed by Karen Coats Brooks and one jointly appointed by Crystal Coats and Rickey Coats;

**WHEREAS,** pursuant to the Consent Judgment, Karen Coats Brooks appointed Timothy L. Burke as her individual Co-Trustee and Crystal Coats and Rickey Coats appointed Brian N. Byars as their jointly-appointed individual Co-Trustee;

**WHEREAS,** Timothy L. Burke has resigned as Co-Trustee;

**WHEREAS,** Article 1(g)(5) of the Trust, as amended by the Consent Judgment, provides that if the Co-Trustee appointed by Karen Coats Brooks resigns, she will have the right to appoint the successor Co-Trustee;

**WHEREAS,** Karen Coats Brooks wishes to appoint Brian N. Byars as her individual successor Co-Trustee and Brian N. Byars wishes to accept such appointment;

**WHEREAS,** all of the beneficiaries desire that Brian N. Byars, as the individual Co-Trustee for all of the beneficiaries, act as the sole Trustee of the Trust until he resigns or is removed as an individual Co-Trustee by Karen Coats Brooks or by Crystal Coats and Rickey Coats, acting jointly;

**NOW, THEREFORE,**

1. Karen Coats Brooks hereby appoints Brian N. Byars to serve as her individual Co-Trustee of the Trust.

2. Brian N. Byars accepts the duties and obligations imposed upon him as the individual Co-Trustee of Karen Coats Brooks and he will faithfully discharge the office of Co-Trustee in accordance with the law and with the terms, provisions, and conditions set forth in the trust instrument.

3. Brian N. Byars shall act as the sole Trustee of the Trust during any period in which he is the individual Co-Trustee for all of the beneficiaries.

[*Signatures on following page*]

[illegible]

**IN WITNESS WHEREOF**, the undersigned parties have executed this instrument and agree to execute any and all documents necessary to comply with procedures of custodians holding assets of the Trust.

Karen Coats Brooks, Beneficiary

Rickey Coats, Beneficiary

Crystal Coats, Beneficiary

**ACCEPTED:**

Brian N. Byars

ERIS

# CITY DIRECTORY

| | |
|---|---|
| **Project Property:** | *Red River Parish Port Site*<br>*n/a*<br>*Coushatta,LA* |
| **Project No:** | |
| **Requested By:** | *GeoEngineers, Inc.* |
| **Order No:** | *23112100939* |
| **Date Completed:** | *November 30, 2023* |

**Environmental Risk Information Services**
*A division of Glacier Media Inc.*
1.866.517.5204 | info@erisinfo.com | erisinfo.com

November 30, 2023
RE: CITY DIRECTORY RESEARCH
n/a
Coushatta,LA

Thank you for contacting ERIS for an City Directory Search for the site described above. Our staff has conducted a reverse listing City Directory search to determine prior occupants of the subject site and adjacent properties. We have provided the nearest addresses(s) when adjacent addresses are not listed. If we have searched a range of addresses, all addresses in that range found in the Directory are included.

Note: Reverse Listing Directories generally are focused on more highly developed areas. Newly developed areas may be covered in the more recent years, but the older directories will tend to cover only the "central" parts of the city. To complete the search, we have either utilized the ACPL, Library of Congress, State Archives, and/or a regional library or history center as well as multiple digitized directories. These do not claim to be a complete collection of all reverse listing city directories produced.

ERIS has made every effort to provide accurate and complete information but shall not be held liable for missing, incomplete or inaccurate information. To complete this search we used the general range(s) below to search for relevant findings. If you believe there are additional addresses or streets that require searching please contact us at 866-517-5204.

**Search Criteria:**
6800-6900 of Hwy 1
100-200 of Riverport Dr
**Search Notes:**

## Search Results Summary

| Date | Source | Comment |
|---|---|---|
| 2022 | DIGITAL BUSINESS DIRECTORY | |
| 2020 | DIGITAL BUSINESS DIRECTORY | |
| 2016 | DIGITAL BUSINESS DIRECTORY | |
| 2012 | DIGITAL BUSINESS DIRECTORY | |
| 2008 | DIGITAL BUSINESS DIRECTORY | |
| 2003 | DIGITAL BUSINESS DIRECTORY | |
| 1999-00 | COLE | |
| 1995-96 | COLE | |
| 1990-91 | COLE | |
| 1985 | COLE | |
| 1980 | COLE | |
| 1974 | COLE | |
| 1970 | COLE | |
| 1965 | COLE | |

## 2022 HWY 1

*SOURCE: DIGITAL BUSINESS DIRECTORY*

6840 **DONALD EVERETT**...*RESIDENTIAL*
6854 **LONNIE CALHOUN**...*RESIDENTIAL*

## 2022 RIVERPORT DR

*SOURCE: DIGITAL BUSINESS DIRECTORY*

**NO LISTING FOUND**

## 2020 HWY 1

*SOURCE: DIGITAL BUSINESS DIRECTORY*

6854 **CHARLOTTA CALHOUN**...*RESIDENTIAL*
6854 **LONNIE CALHOUN**...*RESIDENTIAL*

## 2020 RIVERPORT DR

*SOURCE: DIGITAL BUSINESS DIRECTORY*

**NO LISTING FOUND**

## 2016 HWY 1

*SOURCE: DIGITAL BUSINESS DIRECTORY*

6854 **CHARLOTTA CALHOUN**...*RESIDENTIAL*
6854 **LONNIE CALHOUN**...*RESIDENTIAL*
6854 **SHERI CALHOUN**...*RESIDENTIAL*

## 2016 RIVERPORT DR

*SOURCE: DIGITAL BUSINESS DIRECTORY*

**NO LISTING FOUND**

## 2012 HWY 1

*SOURCE: DIGITAL BUSINESS DIRECTORY*

**NO LISTING FOUND**

## 2012 RIVERPORT DR

*SOURCE: DIGITAL BUSINESS DIRECTORY*

**NO LISTING FOUND**

## 2008 HWY 1

*SOURCE: DIGITAL BUSINESS DIRECTORY*

**NO LISTING FOUND**

## 2008 RIVERPORT DR

*SOURCE: DIGITAL BUSINESS DIRECTORY*

**NO LISTING FOUND**

## 2003 HWY 1

*SOURCE: DIGITAL BUSINESS DIRECTORY*

**NO LISTING FOUND**

## 2003 RIVERPORT DR

*SOURCE: DIGITAL BUSINESS DIRECTORY*

**NO LISTING FOUND**

## 1999-00 HWY 1

*SOURCE: COLE*

**RANGE NOT LISTED**

## 1999-00 RIVERPORT DR

*SOURCE: COLE*

**STREET NOT LISTED**

## 1995-96 HWY 1

*SOURCE: COLE*

**RANGE NOT LISTED**

## 1995-96 RIVERPORT DR

*SOURCE: COLE*

**STREET NOT LISTED**

## 1990-91 HWY 1

*SOURCE: COLE*

**RANGE NOT LISTED**

## 1990-91 RIVERPORT DR

*SOURCE: COLE*

**STREET NOT LISTED**

## 1985 HWY 1

*SOURCE: COLE*

**RANGE NOT LISTED**

## 1985 RIVERPORT DR

*SOURCE: COLE*

**STREET NOT LISTED**

## 1980 HWY 1

*SOURCE: COLE*

**RANGE NOT LISTED**

## 1980 RIVERPORT DR

*SOURCE: COLE*

**STREET NOT LISTED**

## 1974 HWY 1

*SOURCE: COLE*

**RANGE NOT LISTED**

## 1974 RIVERPORT DR

*SOURCE: COLE*

**STREET NOT LISTED**

## 1970 HWY 1

*SOURCE: COLE*

**RANGE NOT LISTED**

## 1970 RIVERPORT DR

*SOURCE: COLE*

**STREET NOT LISTED**

## 1965 HWY 1

*SOURCE: COLE*

**RANGE NOT LISTED**

## 1965 RIVERPORT DR

*SOURCE: COLE*

**STREET NOT LISTED**

# FIRE INSURANCE MAPS

| | |
|---|---|
| **Project Property:** | Red River Parish Port Site<br>n/a<br>Coushatta LA |
| **Project No:** | |
| **Requested By:** | GeoEngineers, Inc. |
| **Order No:** | 23112100939 |
| **Date Completed:** | November 22, 2023 |

**Please note that no information was found for your site or adjacent properties.**

**Environmental Risk Information Services**
*A division of Glacier Media Inc.*
1.866.517.5204 | info@erisinfo.com | erisinfo.com

PSR
PHYSICAL SETTING REPORT

# Property Information

| | | |
|---|---|---|
| Order Number: | | 23112100939p |
| Date Completed: | | November 22, 2023 |
| Project Number: | | |
| Project Property: | | Red River Parish Port Site<br>n/a Coushatta LA |
| Coordinates: | | |
| | Latitude: | 31.9585299 |
| | Longitude: | -93.34060758 |
| | UTM Northing: | 3535889.70002 Meters |
| | UTM Easting: | 467813.237331 Meters |
| | UTM Zone: | UTM Zone 15R |
| | Elevation: | 129.92 ft |
| | Slope Direction: | SW |



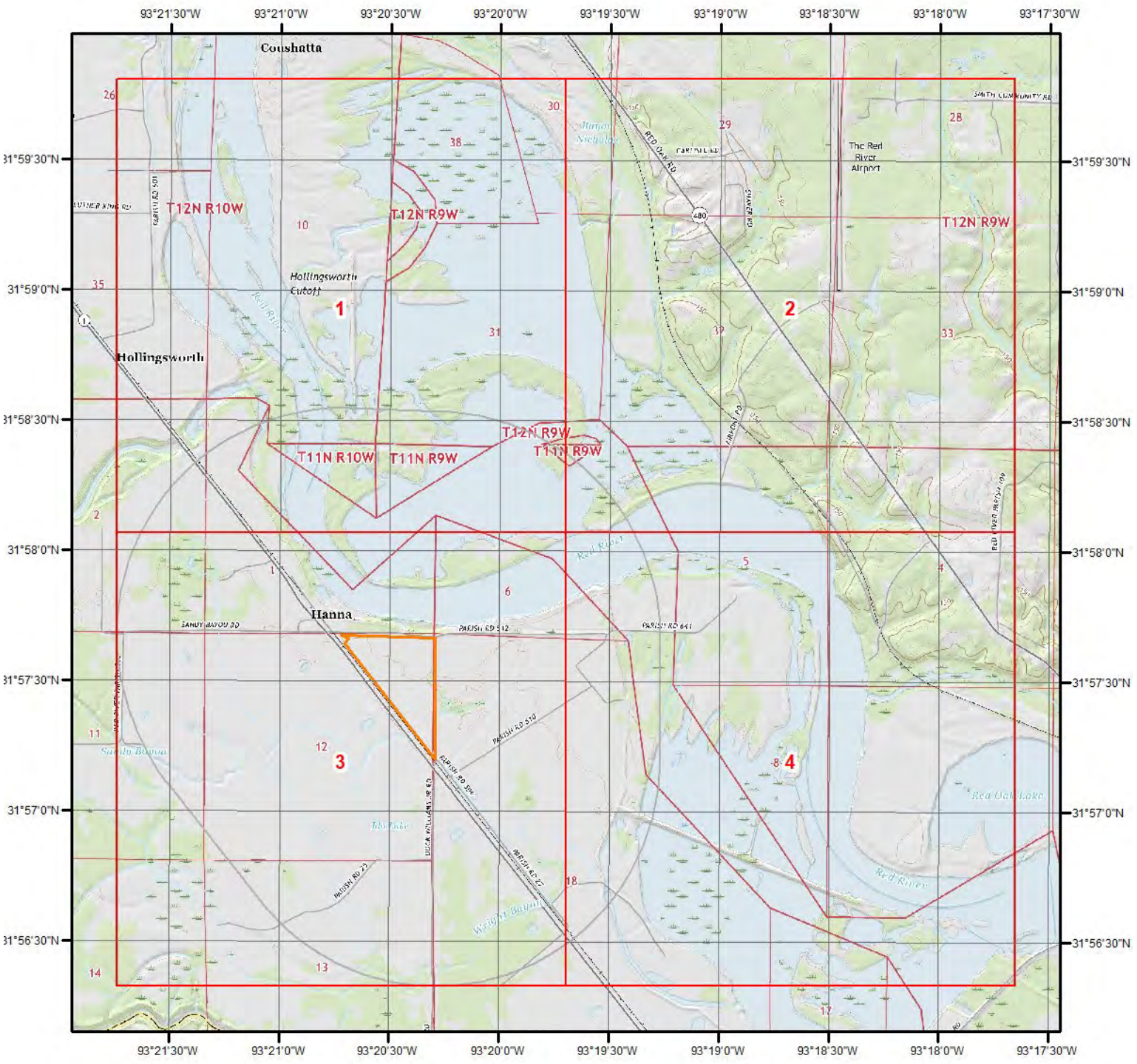
The ERIS ***Physical Setting Report - PSR*** provides comprehensive information about the physical setting around a site and includes a complete overview of topography and surface topology, in addition to hydrologic, geologic and soil characteristics. The location and detailed attributes of oil and gas wells, water wells, public water systems and radon are also included for review.

The compilation of both physical characteristics of a site and additional attribute data is useful in assessing the impact of migration of contaminants and subsequent impact on soils and groundwater.

**Disclaimer**

This Report does not provide a full environmental evaluation for the site or adjacent properties. Please see the terms and disclaimer at the end of the Report for greater detail.

## Topographic Information




# Current USGS Topo (2020)

0 0.2 0.4 0.8 1.2 1.6 Miles

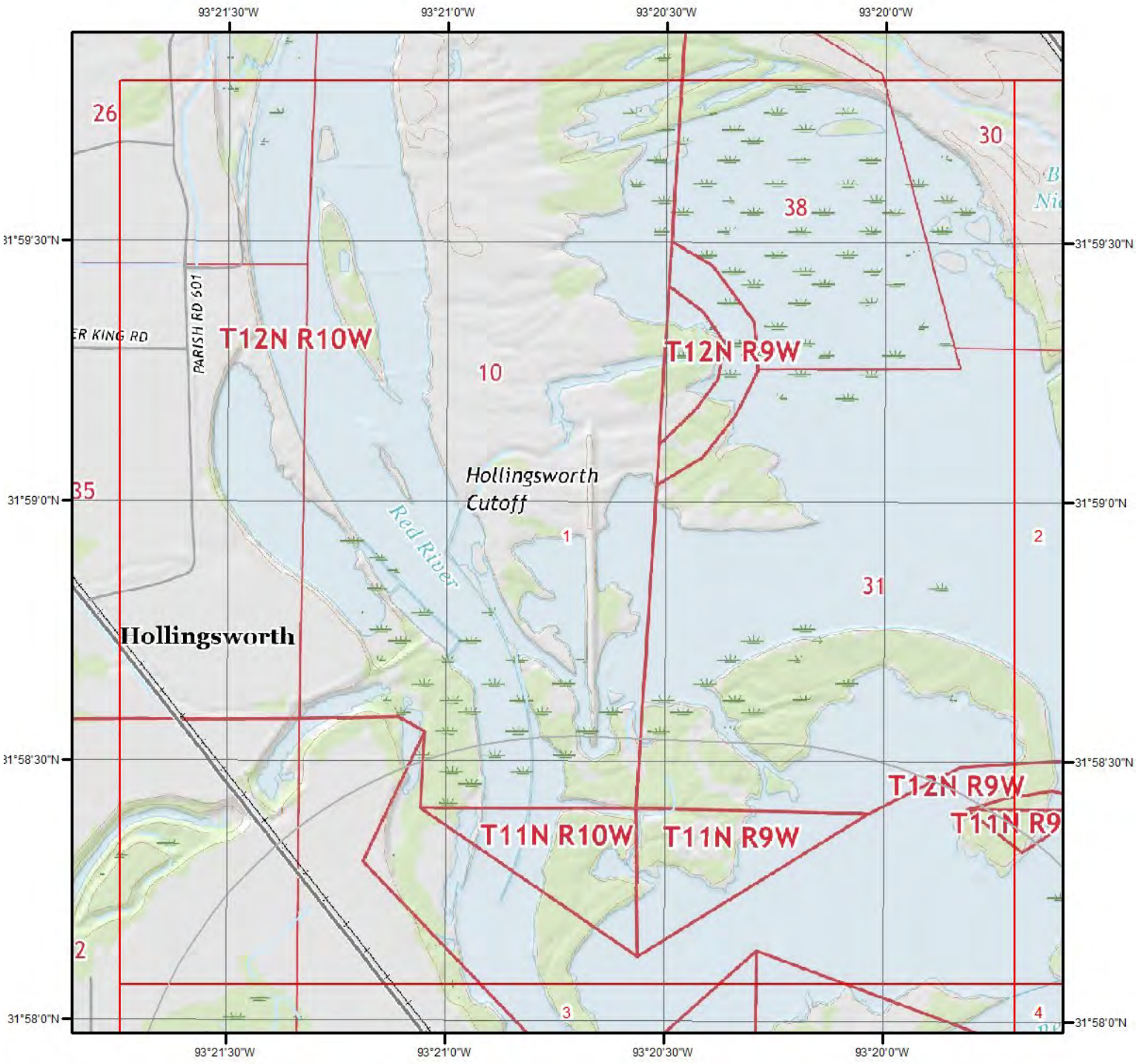
N

**Quadrangle(s): Hanna,LA; Harmon,LA; Evelyn,LA; Coushatta,LA**

ERIS

Source: USGS 7.5 Minute Topographic Map

## Topographic Information




**Current USGS Topo - Page 1**

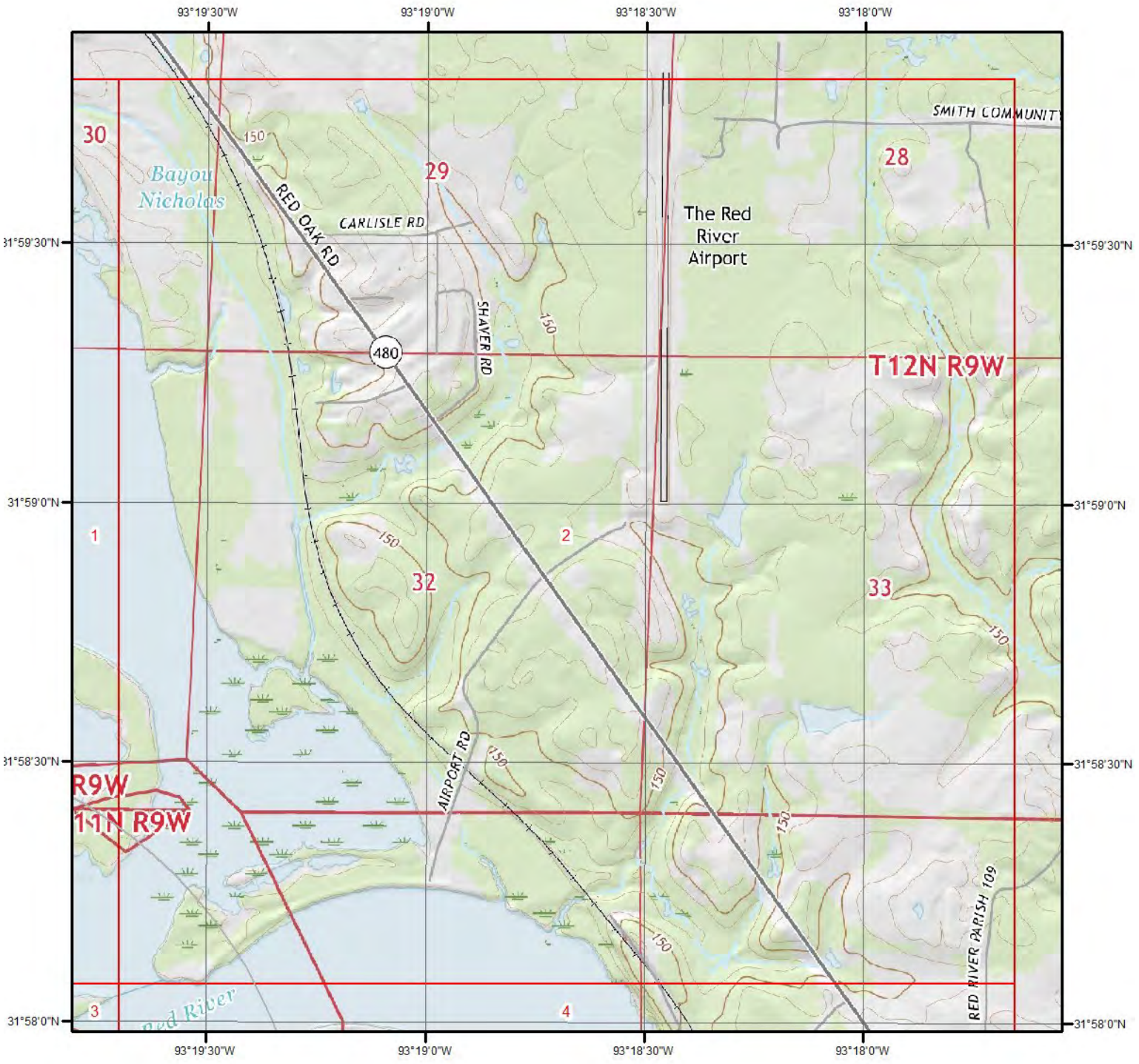
0 0.2 0.4 0.8 Miles

N

**Quadrangle(s): Hanna,LA**

Source: USGS 7.5 Minute Topographic Map

## Topographic Information




# Current USGS Topo - Page 2

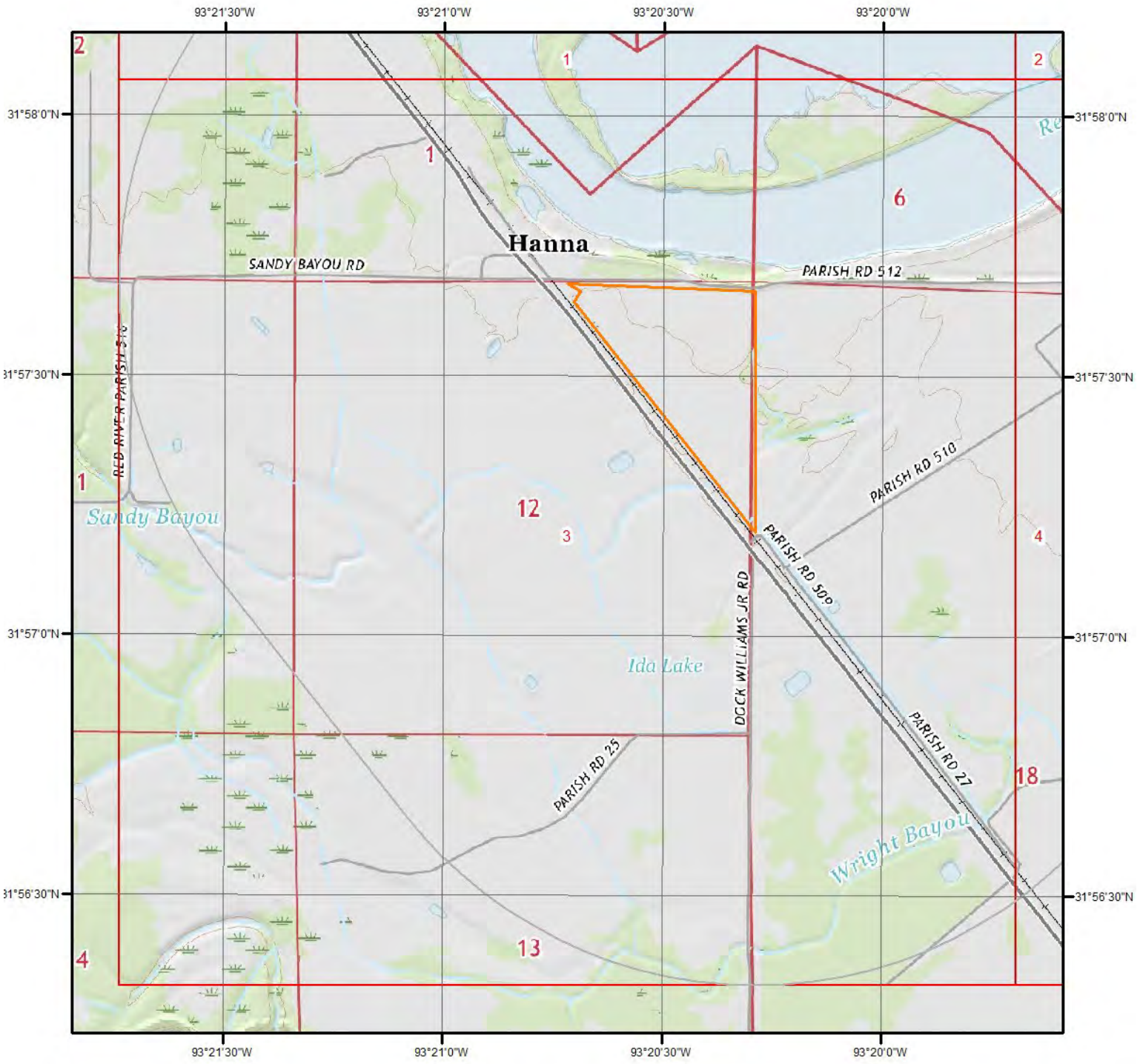
Miles
0 0.2 0.4 0.8

N

**Quadrangle(s): Hanna,LA**

Source: USGS 7.5 Minute Topographic Map

## Topographic Information




# Current USGS Topo - Page 3

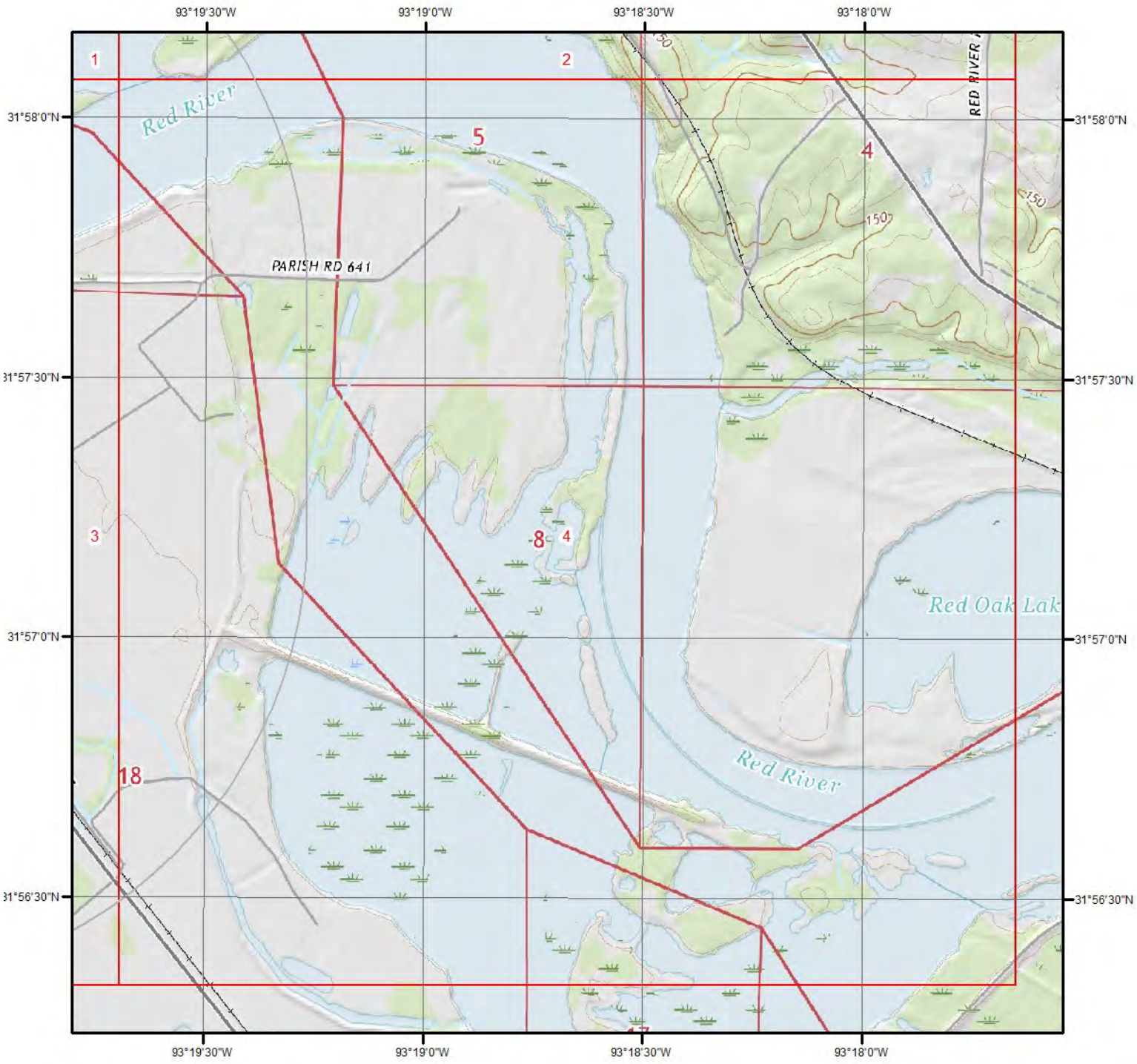
0 0.2 0.4 0.8 Miles

N

**Quadrangle(s): Hanna,LA**

Source: USGS 7.5 Minute Topographic Map

## Topographic Information




# Current USGS Topo - Page 4

Miles
0 0.2 0.4 0.8

N

**Quadrangle(s): Hanna,LA**

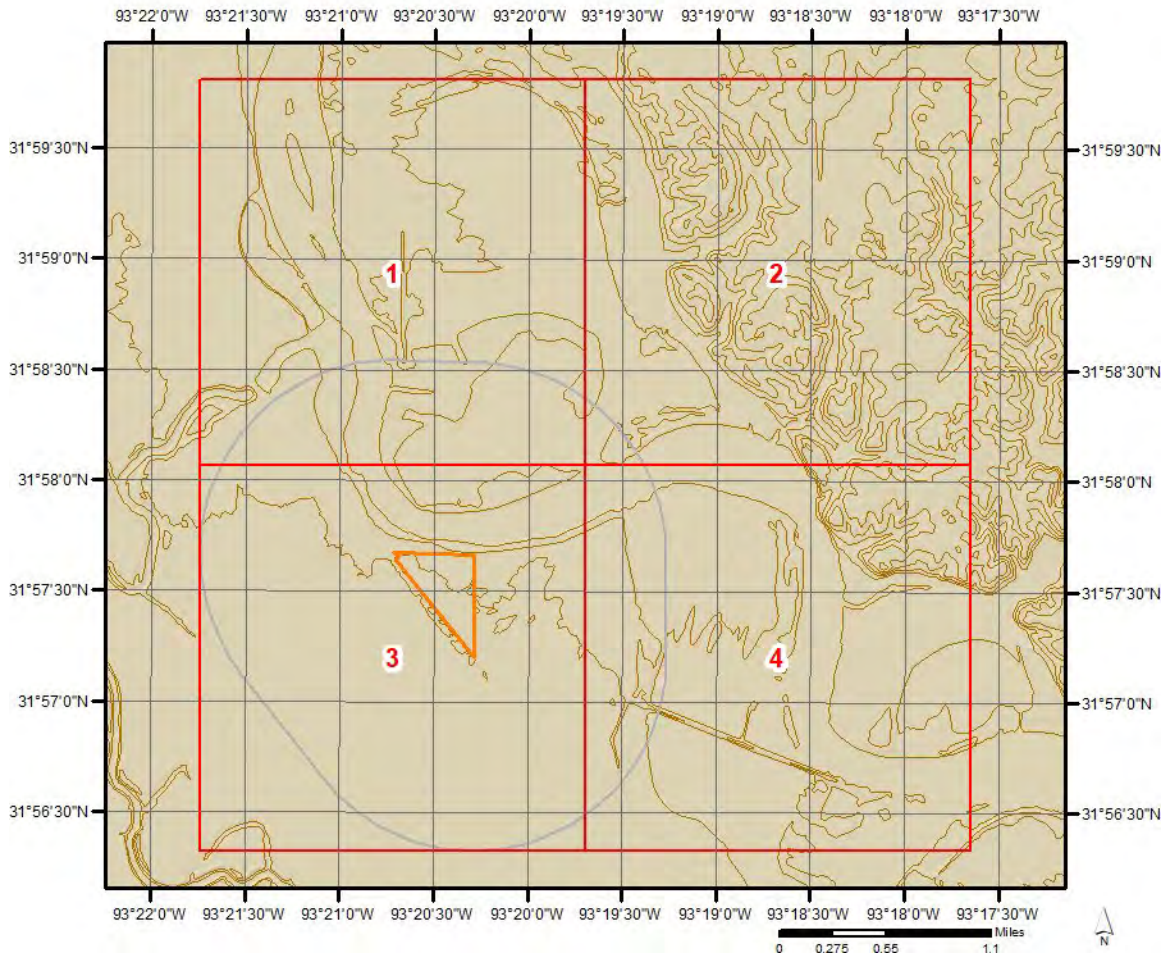
Source: USGS 7.5 Minute Topographic Map

# Topographic Information

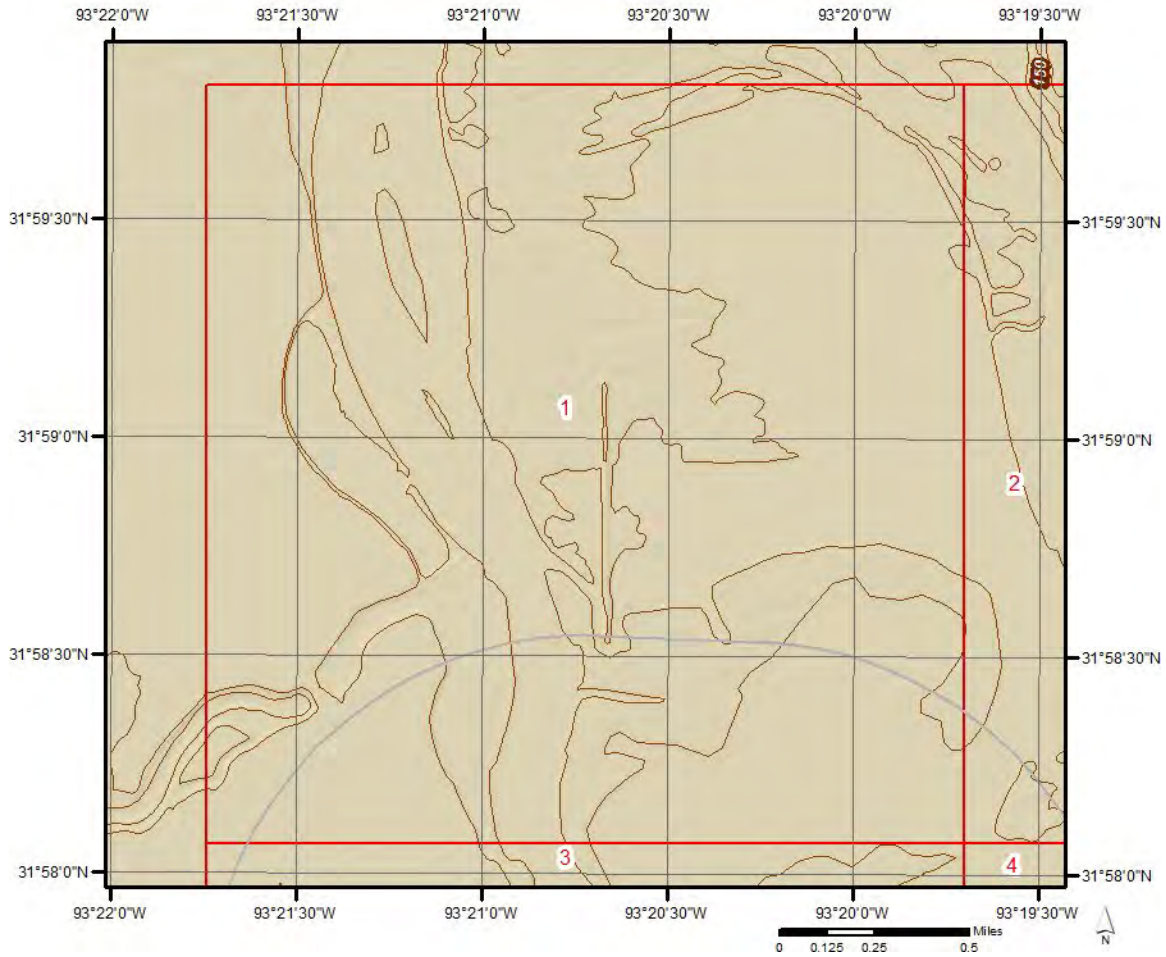
The previous topographic map(s) are created by seamlessly merging and cutting current USGS topographic data. Below are shaded relief map(s), derived from USGS elevation data to show surrounding topography in further detail.

Topographic information at project property:

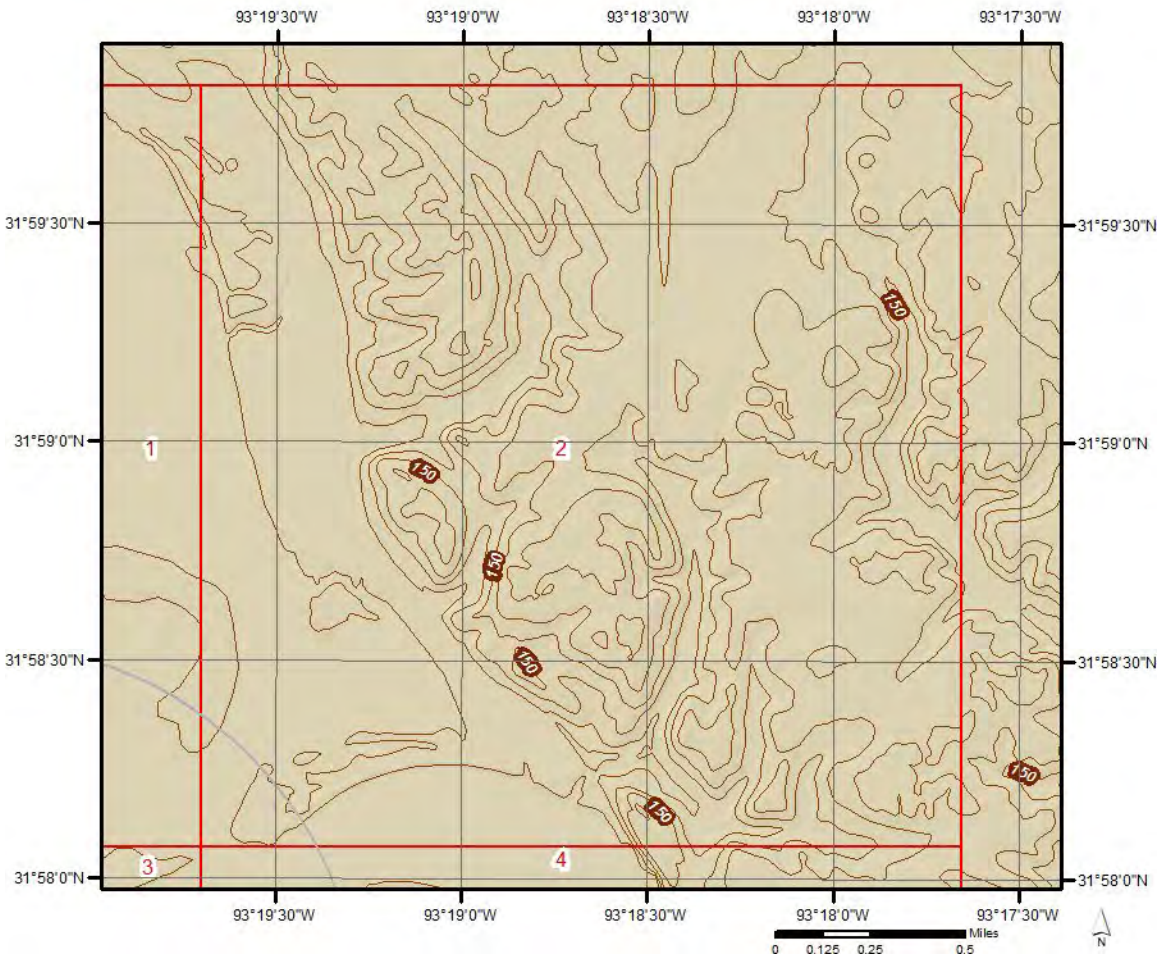
| | |
|---|---|
| Elevation: | 129.92 ft |
| Slope Direction: | SW |



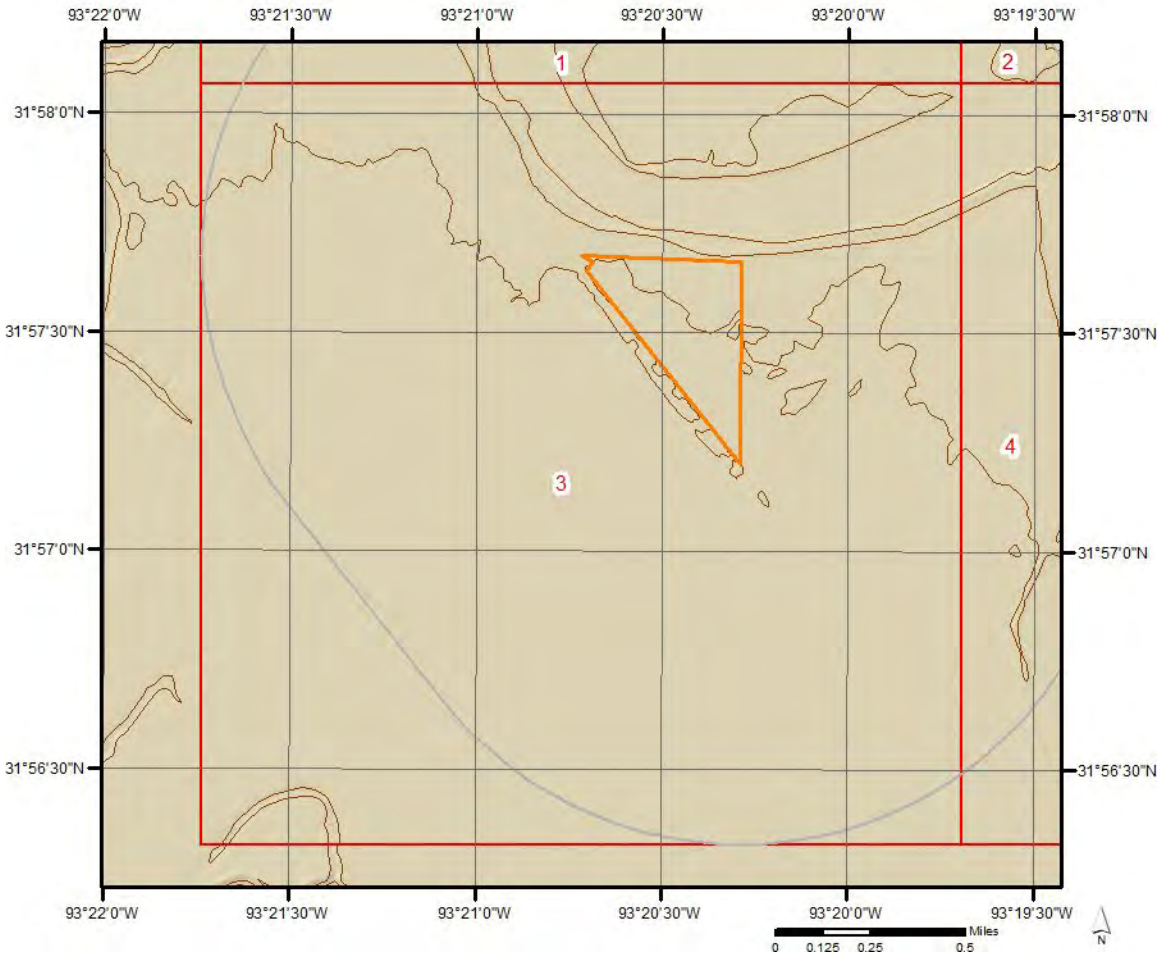
# Topographic Information



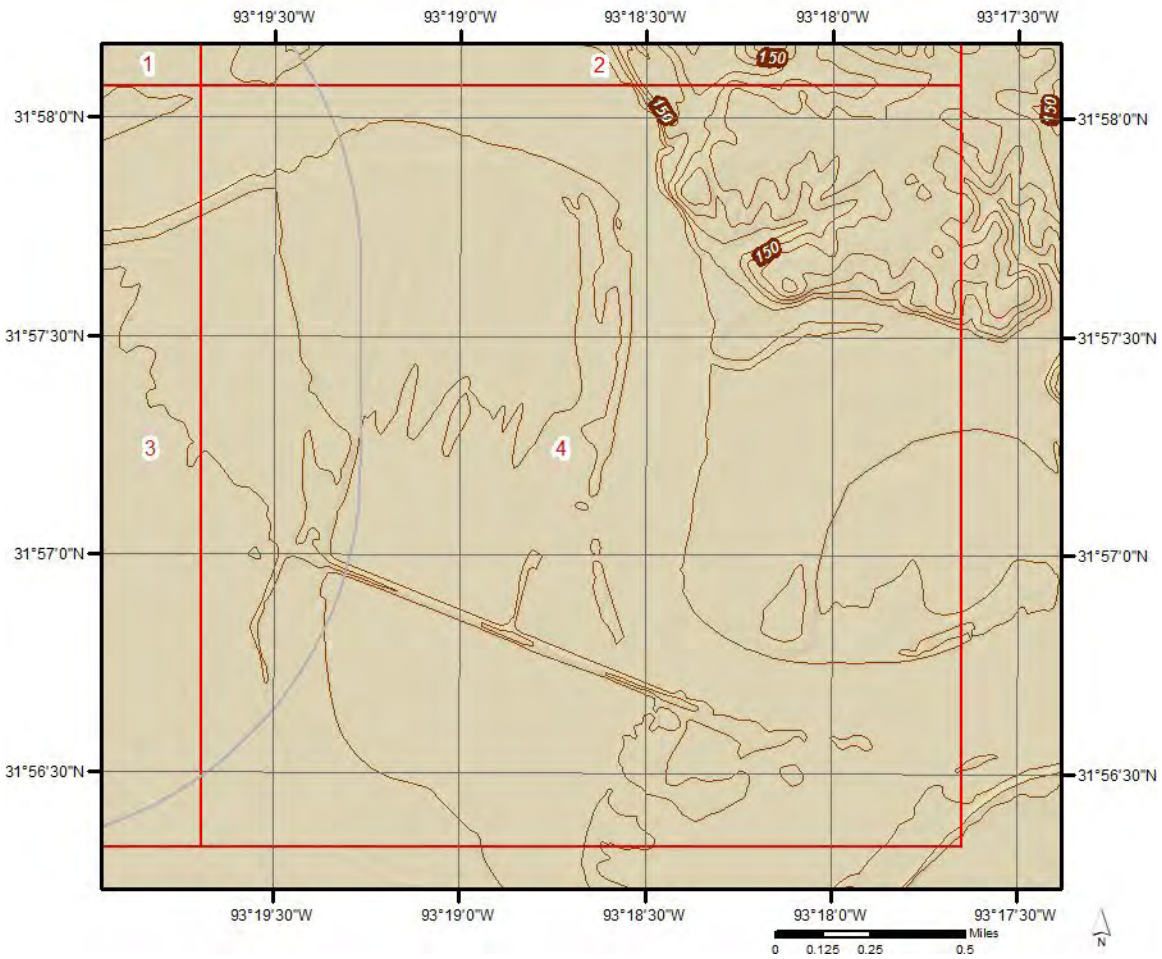
# Topographic Information



# Topographic Information



# Topographic Information



## Hydrologic Information


# Wetland

Miles
0 0.1 0.2 0.4

N

This map shows wetland existence using data from US Fish & Wildlife.
Data coverage is shown to the right. Gray indicates no data available in the area.

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

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## Hydrologic Information


# Flood Hazard Zones

This map shows FEMA flood hazard zones based on FEMA's National Flood Hazard Layer. FIRM Panels are overlayed. An absent FIRM panel represents no data available.

Miles
0 0.2 0.4

N

- 1% Annual Chance Flood Hazard
- Regulatory Floodway
- Special Floodway
- Area of Undetermined Flood Hazard
- 0.2% Annual Chance Flood Hazard
- Future Conditions 1% Annual Chance Flood Hazard
- Area with Reduced Risk Due to Levee
- Area with Risk Due to Levee
- Open Water

**Quadrangle(s): Hanna,LA; Harmon,LA; Evelyn,LA; Coushatta,LA**

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# Hydrologic Information

The Wetland Type map shows wetland existence overlaid on an aerial imagery. The Flood Hazard Zones map shows FEMA flood hazard zones overlaid on an aerial imagery. Relevant FIRM panels and detailed zone information is provided below.
For detailed Zone descriptions please click the link: https://floodadvocate.com/fema-zone-definitions

---

| | |
|---|---|
| Available FIRM Panels in area: | 22031C0525C(effective:2003-12-16) 22069C0200D(effective:2015-07-06) |

# Hydrologic Information

## FEMA Flood Zone Definitions

### Special Flood Hazard Areas – High Risk

Special Flood Hazard Areas represent the area subject to inundation by 1-percent-annual chance flood. Structures located within the SFHA have a 26-percent chance of flooding during the life of a standard 30-year mortgage. Federal floodplain management regulations and mandatory flood insurance purchase requirements apply in these zones.

| ZONE | DESCRIPTION |
|---|---|
| A | Areas subject to inundation by the 1-percent-annual-chance flood event. Because detailed hydraulic analyses have not been performed, no Base Flood Elevations (BFEs) or flood depths are shown. |
| AE, A1-A30 | Areas subject to inundation by the 1-percent-annual-chance flood event determined by detailed methods. BFEs are shown within these zones. (Zone AE is used on new and revised maps in place of Zones A1–A30.) |
| AH | Areas subject to inundation by 1-percent-annual-chance shallow flooding (usually areas of ponding) where average depths are 1–3 feet. BFEs derived from detailed hydraulic analyses are shown in this zone. |
| AO | Areas subject to inundation by 1-percent-annual-chance shallow flooding (usually sheet flow on sloping terrain) where average depths are 1–3 feet. Average flood depths derived from detailed hydraulic analyses are shown within this zone. |
| AR | Areas that result from the decertification of a previously accredited flood protection system that is determined to be in the process of being restored to provide base flood protection. |
| A99 | Areas subject to inundation by the 1-percent-annual-chance flood event, but which will ultimately be protected upon completion of an under-construction Federal flood protection system. These are areas of special flood hazard where enough progress has been made on the construction of a protection system, such as dikes, dams, and levees, to consider it complete for insurance rating purposes. Zone A99 may be used only when the flood protection system has reached specified statutory progress toward completion. No BFEs or flood depths are shown. |

### Coastal High Hazard Areas – High Risk

Coastal High Hazard Areas (CHHA) represent the area subject to inundation by 1-percent-annual chance flood, extending from offshore to the inland limit of a primary front al dune along an open coast and any other area subject to high velocity wave action from storms or seismic sources. Structures located within the CHHA have a 26-percent chance of flooding during the life of a standard 30-year mortgage. Federal floodplain management regulations and mandatory purchase requirements apply in these zones.

| ZONE | DESCRIPTION |
|---|---|
| V | Areas along coasts subject to inundation by the 1-percent-annual-chance flood event with additional hazards associated with storm-induced waves. Because detailed coastal analyses have not been performed, no BFEs or flood depths are shown. |
| VE, V1-V30 | Areas along coasts subject to inundation by the 1-percent-annual-chance flood event with additional hazards due to storm-induced velocity wave action. BFEs derived from detailed hydraulic coastal analyses are shown within these zones. (Zone VE is used on new and revised maps in place of Zones V1–V30.) |

# Hydrologic Information

## Moderate and Minimal Risk Areas

Areas of moderate or minimal hazard are studied based upon the principal source of flood in the area. However, buildings in these zones could be flooded by severe, concentrated rainfall coupled with inadequate local drainage systems. Local stormwater drainage systems are not normally considered in a community's flood insurance study. The failure of a local drainage system can create areas of high flood risk within these zones. Flood insurance is available in participating communities, but is not required by regulation in these zones. Nearly 25-percent of all flood claims filed are for structures located within these zones.

| ZONE | DESCRIPTION |
|---|---|
| B, X (shaded) | Moderate risk areas within the 0.2-percent-annual-chance floodplain, areas of 1-percent-annual-chance flooding where average depths are less than 1 foot, areas of 1-percent-annual-chance flooding where the contributing drainage area is less than 1 square mile, and areas protected from the 1-percent-annual-chance flood by a levee. No BFEs or base flood depths are shown within these zones. (Zone X (shaded) is used on new and revised maps in place of Zone B.) |
| C, X (unshaded) | Minimal risk areas outside the 1-percent and .2-percent-annual-chance floodplains. No BFEs or base flood depths are shown within these zones. (Zone X (unshaded) is used on new and revised maps in place of Zone C.) |

## Undetermined Risk Areas

| ZONE | DESCRIPTION |
|---|---|
| D | Unstudied areas where flood hazards are undetermined, but flooding is possible. No mandatory flood insurance purchase requirements apply, but coverage is available in participating communities. |

## Geologic Information


0 0.2 0.4 Miles

N

# Geologic Units

This maps shows geologic units in the area. Please refer to the report for detailed descriptions.

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# Geologic Information

The previous page shows USGS geology information. Detailed information about each unit is provided below.

---

**Geologic Unit Qnl**

| | |
|---|---|
| Unit Name: | Natural Levees |
| Unit Age: | Phanerozoic \| Cenozoic \| Quaternary \| Holocene |
| Primary Rock Type: | silt |
| Secondary Rock Type: | clay or mud |
| Unit Description: | gray and brown silt, silty clay, some very fine sand, reddish brown along the Red River. |

---

**Geologic Unit Water**

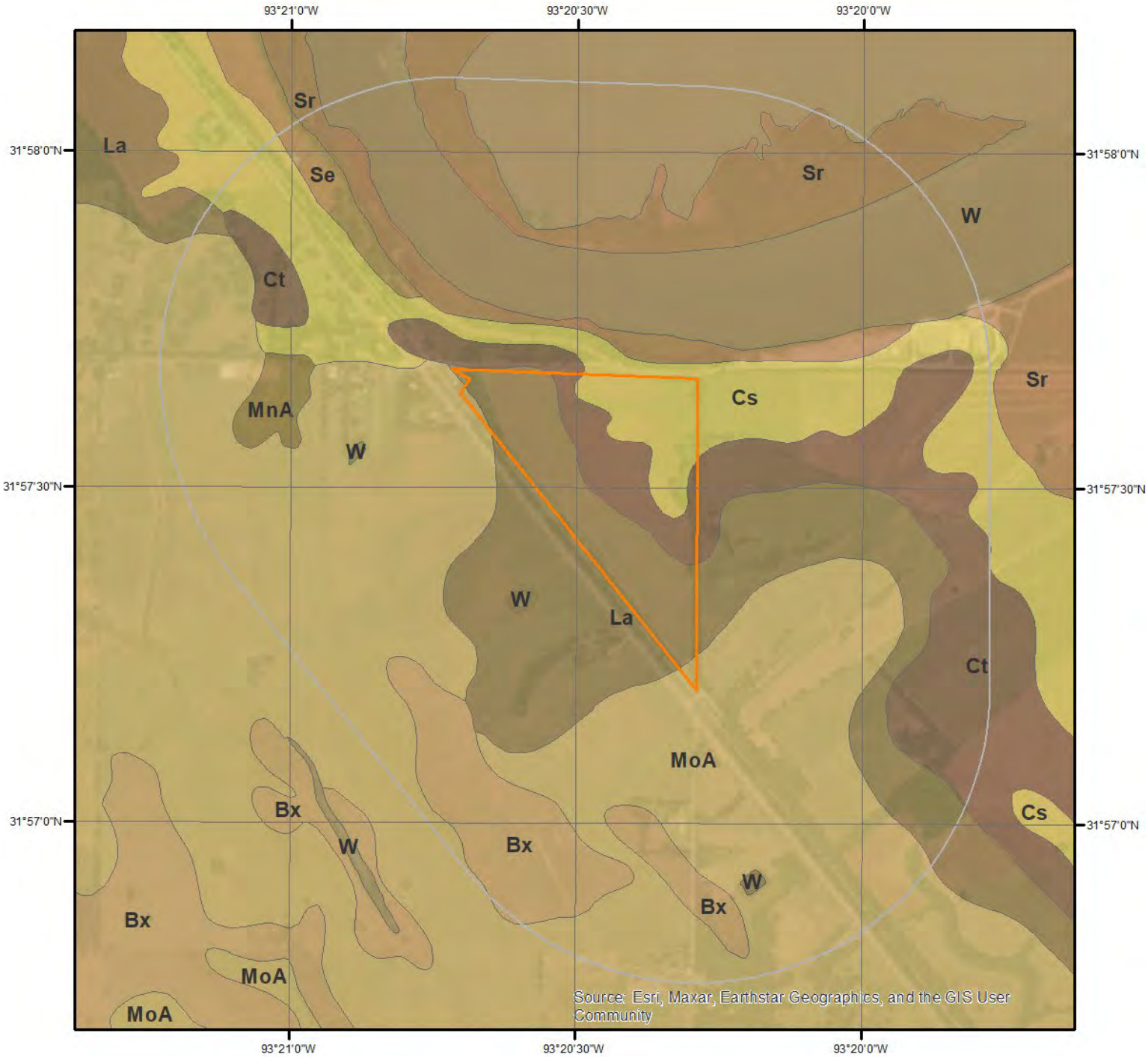
| | |
|---|---|
| Unit Name: | Water |
| Unit Age: | None |
| Primary Rock Type: | water |
| Secondary Rock Type: | |
| Unit Description: | No description available. |

---

**Geologic Unit Qnl**

| | |
|---|---|
| Unit Name: | Natural Levees |
| Unit Age: | Phanerozoic \| Cenozoic \| Quaternary \| Holocene |
| Primary Rock Type: | silt |
| Secondary Rock Type: | clay or mud |
| Unit Description: | gray and brown silt, silty clay, some very fine sand, reddish brown along the Red River. |

## Soil Information




**SSURGO Soils**

0 0.2 0.4 Miles

N

This maps shows SSURGO soil units around the target property. Please refer to the report for detailed soil descriptions.

ERIS

# Soil Information

The previous page shows a soil map using SSURGO data from USDA Natural Resources Conservation Service. Detailed information about each unit is provided below.

---

**Map Unit Bx (0.37%)**

| | |
|---|---|
| Map Unit Name: | Buxin clay, 0 to 1 percent slopes, rarely flooded |
| Bedrock Depth - Min: | null |
| Watertable Depth - Annual Min: | 60cm |
| Drainage Class - Dominant: | Poorly drained |
| Hydrologic Group - Dominant: | D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted. |

Major components are printed below

Buxin(90%)

| | |
|---|---|
| horizon Ap(0cm to 6cm) | Clay |
| horizon Bw(6cm to 70cm) | Clay |
| horizon 2Bssb(70cm to 151cm) | Clay |
| horizon 2Bkb(151cm to 170cm) | Sandy clay loam |
| horizon 2BCk(170cm to 203cm) | Very fine sandy loam |

Component Description:

Minor map unit components are excluded from this report.

Map Unit: Bx - Buxin clay, 0 to 1 percent slopes, rarely flooded

Component: Buxin (90%)
The Buxin, rarely flooded component makes up 90 percent of the map unit. Slopes are 0 to 1 percent. This component is on flood-plain steps on Red River alluvial plains. The parent material consists of backswamp clayey alluvium over natural levee clayey alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is very high. This soil is rarely flooded. It is not ponded. A seasonal zone of water saturation is at 24 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 3 percent. This component is in the F131CY005LA Clayey Floodplain ecological site. Nonirrigated land capability classification is 3w. Irrigated land capability classification is 3w. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 3 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Gallion (9%)
Generated brief soil descriptions are created for major soil components. The Gallion, silt loam soil is a minor component.

Component: Buxin (1%)
Generated brief soil descriptions are created for major soil components. The Buxin, occasionally flooded soil is a minor component.

---

**Map Unit Cs (3.95%)**

| | |
|---|---|
| Map Unit Name: | Coushatta silt loam, 0 to 1 percent slopes |
| Bedrock Depth - Min: | null |
| Watertable Depth - Annual Min: | 153cm |
| Drainage Class - Dominant: | Well drained |
| Hydrologic Group - Dominant: | B - Soils in this group have moderately low runoff potential when thoroughly wet. Water transmission through the soil is unimpeded. |

Major components are printed below

Coushatta(85%)

| | |
|---|---|
| horizon Ap(0cm to 23cm) | Silt loam |
| horizon Bw(23cm to 71cm) | Silt loam |
| horizon Ck(71cm to 203cm) | Silt loam |

# Soil Information

Component Description:

Minor map unit components are excluded from this report.

Map Unit: Cs - Coushatta silt loam, 0 to 1 percent slopes

Component: Coushatta (85%)
The Coushatta component makes up 85 percent of the map unit. Slopes are 0 to 1 percent. This component is on natural levees on Red River alluvial plains. The parent material consists of Holocene loamy alluvium derived from sedimentary rock. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 60 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 1 percent. This component is in the F131CY002LA Loamy Floodplain ecological site. Nonirrigated land capability classification is 1. Irrigated land capability classification is 1 This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 3 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Latanier (8%)
Generated brief soil descriptions are created for major soil components. The Latanier, clay soil is a minor component.

Component: Moreland (6%)
Generated brief soil descriptions are created for major soil components. The Moreland, clay soil is a minor component.

Component: Moreland (1%)
Generated brief soil descriptions are created for major soil components. The Moreland, occasionally flooded soil is a minor component.

---

**Map Unit Ct (1.25%)**

| | |
|---|---|
| Map Unit Name: | Coushatta silty clay loam, 0 to 1 percent slopes |
| Bedrock Depth - Min: | null |
| Watertable Depth - Annual Min: | 153cm |
| Drainage Class - Dominant: | Well drained |
| Hydrologic Group - Dominant: | B - Soils in this group have moderately low runoff potential when thoroughly wet. Water transmission through the soil is unimpeded. |

Major components are printed below

Coushatta(95%)

| | |
|---|---|
| horizon Ap(0cm to 28cm) | Silty clay loam |
| horizon Bw(28cm to 127cm) | Silt loam |
| horizon Ck(127cm to 203cm) | Silty clay loam |

Component Description:

Minor map unit components are excluded from this report.

Map Unit: Ct - Coushatta silty clay loam, 0 to 1 percent slopes

Component: Coushatta (95%)
The Coushatta component makes up 95 percent of the map unit. Slopes are 0 to 1 percent. This component is on natural levees on Red River alluvial plains. The parent material consists of Holocene loamy alluvium derived from sedimentary rock. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 60 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 2 percent. This component is in the F131CY002LA Loamy Floodplain ecological site. Nonirrigated land capability classification is 2w. Irrigated land capability classification is 2w. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface.

Component: Moreland (4%)
Generated brief soil descriptions are created for major soil components. The Moreland soil is a minor component.

Component: Moreland (1%)

# Soil Information

Generated brief soil descriptions are created for major soil components. The Moreland, occasionally flooded soil is a minor component.

---

**Map Unit La (2.47%)**

| | |
|---|---|
| Map Unit Name: | Latanier clay, 0 to 1 percent slopes, rarely flooded |
| Bedrock Depth - Min: | null |
| Watertable Depth - Annual Min: | 0cm |
| Drainage Class - Dominant: | Somewhat poorly drained |
| Hydrologic Group - Dominant: | D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted. |

Major components are printed below

Latanier(90%)

| | |
|---|---|
| horizon Ap(0cm to 15cm) | Clay |
| horizon Bss(15cm to 76cm) | Clay |
| horizon 2C(76cm to 203cm) | Silt loam |

Component Description:

Minor map unit components are excluded from this report.

Map Unit: La - Latanier clay, 0 to 1 percent slopes, rarely flooded

Component: Latanier (90%)
The Latanier component makes up 90 percent of the map unit. Slopes are 0 to 1 percent. This component is on natural levees on Red River delta plains. The parent material consists of Holocene clayey alluvium derived from sedimentary rock over loamy alluvium derived from sedimentary rock. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is very low. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is rarely flooded. It is not ponded. A seasonal zone of water saturation is at 0 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 3 percent. This component is in the F131CY003LA Clay Cap Floodplain ecological site. Nonirrigated land capability classification is 3w. Irrigated land capability classification is 3w. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 3 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Coushatta (5%)
Generated brief soil descriptions are created for major soil components. The Coushatta, silt loam soil is a minor component.

Component: Gallion (4%)
Generated brief soil descriptions are created for major soil components. The Gallion, silt loam soil is a minor component.

Component: Moreland (1%)
Generated brief soil descriptions are created for major soil components. The Moreland, occasionally flooded soil is a minor component.

---

**Map Unit MnA (0.06%)**

| | |
|---|---|
| Map Unit Name: | Moreland silt loam, 0 to 1 percent slopes, rarely flooded |
| Bedrock Depth - Min: | null |
| Watertable Depth - Annual Min: | 0cm |
| Drainage Class - Dominant: | Somewhat poorly drained |
| Hydrologic Group - Dominant: | D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted. |

Major components are printed below

Moreland(90%)

| | |
|---|---|
| horizon Ap(0cm to 15cm) | Silt loam |
| horizon A(15cm to 25cm) | Silt loam |
| horizon Bss(25cm to 79cm) | Clay |
| horizon Bkss(79cm to 203cm) | Clay |

# Soil Information

Component Description:

Minor map unit components are excluded from this report.

Map Unit: MnA - Moreland silt loam, 0 to 1 percent slopes, rarely flooded

Component: Moreland (90%)
The Moreland, overwash component makes up 90 percent of the map unit. Slopes are 0 to 1 percent. This component is on flood-plain steps on Red River alluvial plains. The parent material consists of Red River clayey alluvium derived from sedimentary rock. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is very low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is very high. This soil is rarely flooded. It is not ponded. A seasonal zone of water saturation is at 0 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 3 percent. This component is in the F131CY005LA Clayey Floodplain ecological site. Nonirrigated land capability classification is 3w. Irrigated land capability classification is 3w. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 2 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Latanier (4%)
Generated brief soil descriptions are created for major soil components. The Latanier, clay soil is a minor component.

Component: Coushatta (4%)
Generated brief soil descriptions are created for major soil components. The Coushatta, silt loam soil is a minor component.

Component: Gallion (1%)
Generated brief soil descriptions are created for major soil components. The Gallion, silt loam soil is a minor component.

Component: Moreland (1%)
Generated brief soil descriptions are created for major soil components. The Moreland, occasionally flooded soil is a minor component.

---

**Map Unit MoA (39.42%)**

| | |
|---|---|
| Map Unit Name: | Moreland clay, 0 to 1 percent slopes, rarely flooded |
| Bedrock Depth - Min: | null |
| Watertable Depth - Annual Min: | 0cm |
| Drainage Class - Dominant: | Somewhat poorly drained |
| Hydrologic Group - Dominant: | D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted. |

Major components are printed below

Moreland(85%)

| | |
|---|---|
| horizon Ap(0cm to 41cm) | Clay |
| horizon Bw(41cm to 66cm) | Clay |
| horizon Bkss(66cm to 203cm) | Clay |

Component Description:

Minor map unit components are excluded from this report.

Map Unit: MoA - Moreland clay, 0 to 1 percent slopes, rarely flooded

Component: Moreland (85%)
The Moreland component makes up 85 percent of the map unit. Slopes are 0 to 1 percent. This component is on flood-plain steps on Red River alluvial plains. The parent material consists of Red River clayey alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is very high. This soil is rarely flooded. It is not ponded. A seasonal zone of water saturation is at 0 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 3 percent. This component is in the F131CY005LA Clayey Floodplain ecological site. Nonirrigated land capability classification is 3w. Irrigated land capability classification is 3w. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 5 percent. There are no saline horizons within 30 inches of the soil surface.

# Soil Information

Component: Latanier (10%)
Generated brief soil descriptions are created for major soil components. The Latanier soil is a minor component.

Component: Coushatta (4%)
Generated brief soil descriptions are created for major soil components. The Coushatta, silt loam soil is a minor component.

Component: Moreland (1%)
Generated brief soil descriptions are created for major soil components. The Moreland, occasionally flooded soil is a minor component.

---

**Map Unit Se (0.42%)**

| | |
|---|---|
| Map Unit Name: | Severn very fine sandy loam, 0 to 1 percent slopes, rarely flooded |
| Bedrock Depth - Min: | null |
| Watertable Depth - Annual Min: | null |
| Drainage Class - Dominant: | Well drained |
| Hydrologic Group - Dominant: | A - Soils in this group have low runoff potential when thoroughly wet. Water is transmitted freely through the soil. |

Major components are printed below

Severn(85%)

| | |
|---|---|
| horizon A(0cm to 23cm) | Very fine sandy loam |
| horizon C(23cm to 203cm) | Stratified loamy very fine sand to very fine sandy loam to silt loam |

Component Description:

Minor map unit components are excluded from this report.

Map Unit: Se - Severn very fine sandy loam, 0 to 1 percent slopes, rarely flooded

Component: Severn (85%)
The Severn, rarely flooded component makes up 85 percent of the map unit. Slopes are 0 to 1 percent. This component is on natural levees on Red River delta plains. The parent material consists of Holocene loamy alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is rarely flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the F131CY002LA Loamy Floodplain ecological site. Nonirrigated land capability classification is 1. Irrigated land capability classification is 1 This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 1 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Kiomatia (8%)
Generated brief soil descriptions are created for major soil components. The Kiomatia, frequently flooded soil is a minor component.

Component: Oklared (3%)
Generated brief soil descriptions are created for major soil components. The Oklared, rarely flooded soil is a minor component.

Component: Coushatta (3%)
Generated brief soil descriptions are created for major soil components. The Coushatta soil is a minor component.

Component: Unnamed (1%)
Generated brief soil descriptions are created for major soil components. The Unnamed, hydric soil is a minor component.

---

**Map Unit Sr (3.05%)**

| | |
|---|---|
| Map Unit Name: | Severn very fine sandy loam, 0 to 3 percent slopes, gently undulating, frequently flooded |
| Bedrock Depth - Min: | null |
| Watertable Depth - Annual Min: | null |
| Drainage Class - Dominant: | Well drained |
| Hydrologic Group - Dominant: | A - Soils in this group have low runoff potential when thoroughly wet. Water is |

transmitted freely through the soil.

Major components are printed below

Severn(90%)

| | |
|---|---|
| horizon Ap(0cm to 9cm) | Very fine sandy loam |
| horizon A(9cm to 29cm) | Very fine sandy loam |
| horizon C(29cm to 203cm) | Stratified fine sandy loam to very fine sandy loam |

Component Description:

Minor map unit components are excluded from this report.

Map Unit: Sr - Severn very fine sandy loam, 0 to 3 percent slopes, gently undulating, frequently flooded

Component: Severn (90%)
The Severn, frequently flooded component makes up 90 percent of the map unit. Slopes are 1 to 3 percent. This component is on point bars on Red River delta plains. The parent material consists of Holocene loamy alluvium derived from sedimentary rock. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is frequently flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the F131CY002LA Loamy Floodplain ecological site. Nonirrigated land capability classification is 5w. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 1 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Kiomatia (5%)
Generated brief soil descriptions are created for major soil components. The Kiomatia, frequently flooded soil is a minor component.

Component: Moreland (3%)
Generated brief soil descriptions are created for major soil components. The Moreland, occasionally flooded soil is a minor component.

Component: Coushatta (2%)
Generated brief soil descriptions are created for major soil components. The Coushatta soil is a minor component.

---

**Map Unit W (49.02%)**

Map Unit Name: Water

No more attributes available for this map unit

Component Description:

Minor map unit components are excluded from this report.

Map Unit: W - Water

Component: Water (100%)
Generated brief soil descriptions are created for major soil components. The Water is a miscellaneous area.

## Wells and Additional Sources


### Wells & Additional Sources

N

0 0.3 0.6 1.2 Miles

- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- OGW Sites with Higher Elevation
- OGW Sites with Same Elevation
- OGW Sites with Lower Elevation
- OGW Sites with Unknown Elevation

ERIS

## Wells and Additional Sources


### Wells & Additional Sources - Page 1

N

0 0.15 0.3 0.6 Miles

- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- OGW Sites with Higher Elevation
- OGW Sites with Same Elevation
- OGW Sites with Lower Elevation
- OGW Sites with Unknown Elevation

ERIS

## Wells and Additional Sources


**Wells & Additional Sources - Page 2**

N

0 0.15 0.3 0.6 Miles

- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- OGW Sites with Higher Elevation
- OGW Sites with Same Elevation
- OGW Sites with Lower Elevation
- OGW Sites with Unknown Elevation

ERIS

## Wells and Additional Sources


# Wells & Additional Sources - Page 3

N

0 0.15 0.3 0.6 Miles

- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- OGW Sites with Higher Elevation
- OGW Sites with Same Elevation
- OGW Sites with Lower Elevation
- OGW Sites with Unknown Elevation

ERIS

## Wells and Additional Sources


# Wells & Additional Sources - Page 4

N

0 0.15 0.3 0.6 Miles

- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- OGW Sites with Higher Elevation
- OGW Sites with Same Elevation
- OGW Sites with Lower Elevation
- OGW Sites with Unknown Elevation

ERIS

# Wells and Additional Sources Summary

## Federal Sources

### Public Water Systems Violations and Enforcement Data

| Map Key | ID | Distance (ft) | Direction |
|---|---|---|---|
| | No records found | | |

### Safe Drinking Water Information System (SDWIS)

| Map Key | ID | Distance (ft) | Direction |
|---|---|---|---|
| | No records found | | |

### USGS National Water Information System

| Map Key | Site No | Distance (ft) | Direction |
|---|---|---|---|
| 5 | USGS-315742093204603 | 364.98 | NW |
| 5 | USGS-315742093204601 | 364.98 | NW |
| 5 | USGS-315742093204602 | 364.98 | NW |
| 6 | USGS-315743093204601 | 429.72 | NW |
| 6 | USSCS-315743093204611 | 429.72 | NW |
| 6 | USSCS-315743093204612 | 429.72 | NW |
| 10 | USGS-315742093205301 | 928.11 | WNW |
| 15 | USGS-315756093210501 | 2525.47 | NW |
| 23 | USGS-315700093193601 | 3687.66 | SE |
| 23 | USSCS-315700093193613 | 3687.66 | SE |
| 23 | USSCS-315700093193611 | 3687.66 | SE |
| 23 | USSCS-315700093193612 | 3687.66 | SE |

### Wells from NWIS

| Map Key | ID | Distance (ft) | Direction |
|---|---|---|---|
| | No records found | | |

## State Sources

### Oil and Gas Wells

| Map Key | API No | Distance (ft) | Direction |
|---|---|---|---|
| 1 | 17081204170000 | 1099.65 | WSW |
| 2 | 17081203880000 | 1142.84 | WSW |
| 8 | 17081006700000 | 1974.22 | SW |
| 11 | 17081006680000 | 1679.16 | SSE |
| 12 | 17081208300000 | 2330.97 | SE |
| 13 | 17081204290000 | 2766.99 | ENE |
| 16 | 17081006690000 | 2559.96 | S |
| 17 | 17081211030000 | 2770.56 | S |
| 18 | 17081202600000 | 2756.71 | SE |
| 20 | 17081203170000 | 3938.88 | E |
| 21 | 17081203050000 | 3675.26 | ESE |
| 22 | 17081210740000 | 3565.98 | W |
| 25 | 17081203080000 | 3900.07 | SE |

| | | | |
|---|---|---|---|
| 26 | 17081205460000 | 3594.11 | SE |
| 27 | 17081006670000 | 3730.78 | SE |
| 28 | 17081204990000 | 3712.99 | SE |
| 29 | 17081203580000 | 4446.98 | ESE |
| 30 | 17081203200000 | 5080.94 | E |
| 32 | 17081203210000 | 5088.12 | E |
| 33 | 17081006660000 | 3987.75 | SE |
| 34 | 17081203090000 | 4995.68 | ESE |
| 35 | 17081006770000 | 4117.09 | SSE |
| 36 | 17081006760000 | 4165.17 | SSE |
| 37 | 17081207610000 | 4822.02 | ESE |
| 38 | 17081203590000 | 4762.97 | SE |
| 39 | 17081203120000 | 5213.38 | ESE |
| 40 | 17081205810000 | 4973.95 | SE |
| 41 | 17081006750000 | 4883.83 | SSE |
| 42 | 17081204020000 | 4912.46 | SSE |
| 43 | 17081006740000 | 5195.46 | SSE |
| 44 | 17081203040000 | 5241.84 | SSE |

### Public Water Supply Wells

| Map Key | Local Well Number | Distance (ft) | Direction |
|---|---|---|---|
| 7 | 128 | 847.26 | WNW |

### Water Wells Registration Dataset

| Map Key | Water Well No | Distance (ft) | Direction |
|---|---|---|---|
| 3 | 472032 | 288.35 | NW |
| 3 | 472046 | 288.35 | NW |
| 3 | 472015 | 288.35 | NW |
| 4 | 472156 | 350.28 | NW |
| 9 | 472072 | 864.23 | WNW |
| 14 | 472063 | 2446.71 | NW |
| 19 | 473460 | 2830.33 | S |
| 24 | 472150 | 3756.77 | SE |
| 31 | 472997 | 4753.68 | W |

## USGS National Water Information System

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 5 | NW | 0.07 | 364.98 | 131.41 | FED USGS |

| | |
|---|---|
| Site No: | USGS-315742093204603 |
| Site Type: | Well |
| Formation Type: | Red River Alluvial Aquifer |
| Date Drilled: | 19480101 |
| Well Depth: | 60.0 |
| Well Depth Unit: | ft |
| Well Hole Depth: | |
| Well Hole Depth Unit: | |
| Reporting Agency: | USGS Louisiana Water Science Center |
| Station Name: | RR-71 |
| Latitude: | 31.96182875000000 |
| Longitude: | -93.3462834000000 |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 5 | NW | 0.07 | 364.98 | 131.41 | FED USGS |

| | |
|---|---|
| Site No: | USGS-315742093204601 |
| Site Type: | Well |
| Formation Type: | Dolet Hills Aquifer |
| Date Drilled: | 19431201 |
| Well Depth: | 176 |
| Well Depth Unit: | ft |
| Well Hole Depth: | 176 |
| Well Hole Depth Unit: | ft |
| Reporting Agency: | USGS Louisiana Water Science Center |
| Station Name: | RR-88 |
| Latitude: | 31.96182875000000 |
| Longitude: | -93.3462834000000 |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 5 | NW | 0.07 | 364.98 | 131.41 | FED USGS |

| | |
|---|---|
| Site No: | USGS-315742093204602 |
| Site Type: | Well |
| Formation Type: | Wilcox Aquifer |
| Date Drilled: | 19541201 |
| Well Depth: | 208 |
| Well Depth Unit: | ft |
| Well Hole Depth: | 208 |

Well Hole Depth Unit: ft
Reporting Agency: USGS Louisiana Water Science Center
Station Name: RR-102
Latitude: 31.96182875000000
Longitude: -93.3462834000000

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 6 | NW | 0.08 | 429.72 | 131.26 | FED USGS |

Site No: USGS-315743093204601
Site Type: Well
Formation Type: Red River Alluvial Aquifer
Date Drilled: 19710629
Well Depth: 56.0
Well Depth Unit: ft
Well Hole Depth: 86.0
Well Hole Depth Unit: ft
Reporting Agency: USGS Louisiana Water Science Center
Station Name: RR-210
Latitude: 31.96210650000000
Longitude: -93.3462834000000

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 6 | NW | 0.08 | 429.72 | 131.26 | FED USGS |

Site No: USSCS-315743093204611
Site Type: Well
Formation Type: Red River Alluvial Aquifer Surficial Confining Unit
Date Drilled:
Well Depth:
Well Depth Unit:
Well Hole Depth:
Well Hole Depth Unit:
Reporting Agency: USGS Louisiana Water Science Center
Station Name: RR-210A
Latitude: 31.96210650000000
Longitude: -93.3462834000000

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 6 | NW | 0.08 | 429.72 | 131.26 | FED USGS |

Site No: USSCS-315743093204612
Site Type: Well
Formation Type: Red River Alluvial Aquifer Surficial Confining Unit
Date Drilled:

Well Depth:
Well Depth Unit:
Well Hole Depth:
Well Hole Depth Unit:
Reporting Agency: USGS Louisiana Water Science Center
Station Name: RR-210B
Latitude: 31.96210650000000
Longitude: -93.3462834000000

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 10 | WNW | 0.18 | 928.11 | 131.06 | FED USGS |

Site No: USGS-315742093205301
Site Type: Well
Formation Type: Red River Alluvial Aquifer
Date Drilled: 19550501
Well Depth: 65.0
Well Depth Unit: ft
Well Hole Depth:
Well Hole Depth Unit:
Reporting Agency: USGS Louisiana Water Science Center
Station Name: RR-128
Latitude: 31.96182876000000
Longitude: -93.3482279000000

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 15 | NW | 0.48 | 2,525.47 | 131.15 | FED USGS |

Site No: USGS-315756093210501
Site Type: Well
Formation Type: Red River Alluvial Aquifer
Date Drilled: 1952
Well Depth: 65.0
Well Depth Unit: ft
Well Hole Depth:
Well Hole Depth Unit:
Reporting Agency: USGS Louisiana Water Science Center
Station Name: RR-119
Latitude: 31.96571760000000
Longitude: -93.3515613000000

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 23 | SE | 0.70 | 3,687.66 | 129.57 | FED USGS |

Site No: USGS-315700093193601

# Wells and Additional Sources Detail Report

| | |
|---|---|
| Site Type: | Well |
| Formation Type: | Red River Alluvial Aquifer |
| Date Drilled: | 19710628 |
| Well Depth: | 63.0 |
| Well Depth Unit: | ft |
| Well Hole Depth: | 76.0 |
| Well Hole Depth Unit: | ft |
| Reporting Agency: | USGS Louisiana Water Science Center |
| Station Name: | RR-204 |
| Latitude: | 31.95016210000000 |
| Longitude: | -93.3268383000000 |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 23 | SE | 0.70 | 3,687.66 | 129.57 | FED USGS |

| | |
|---|---|
| Site No: | USSCS-315700093193613 |
| Site Type: | Well |
| Formation Type: | Red River Alluvial Aquifer Surficial Confining Unit |
| Date Drilled: | |
| Well Depth: | |
| Well Depth Unit: | |
| Well Hole Depth: | |
| Well Hole Depth Unit: | |
| Reporting Agency: | USGS Louisiana Water Science Center |
| Station Name: | RR-204C |
| Latitude: | 31.95016210000000 |
| Longitude: | -93.3268383000000 |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 23 | SE | 0.70 | 3,687.66 | 129.57 | FED USGS |

| | |
|---|---|
| Site No: | USSCS-315700093193611 |
| Site Type: | Well |
| Formation Type: | Red River Alluvial Aquifer Surficial Confining Unit |
| Date Drilled: | |
| Well Depth: | |
| Well Depth Unit: | |
| Well Hole Depth: | |
| Well Hole Depth Unit: | |
| Reporting Agency: | USGS Louisiana Water Science Center |
| Station Name: | RR-204A |
| Latitude: | 31.95016210000000 |
| Longitude: | -93.3268383000000 |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 23 | SE | 0.70 | 3,687.66 | 129.57 | FED USGS |

# Wells and Additional Sources Detail Report

| | |
|---|---|
| Site No: | USSCS-315700093193612 |
| Site Type: | Well |
| Formation Type: | Red River Alluvial Aquifer Surficial Confining Unit |
| Date Drilled: | |
| Well Depth: | |
| Well Depth Unit: | |
| Well Hole Depth: | |
| Well Hole Depth Unit: | |
| Reporting Agency: | USGS Louisiana Water Science Center |
| Station Name: | RR-204B |
| Latitude: | 31.95016210000000 |
| Longitude: | -93.3268383000000 |

## Oil and Gas Wells

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 1 | WSW | 0.21 | 1,099.65 | 128.27 | OGW |

| | | | |
|---|---|---|---|
| API No: | 17081204170000 | LW Rec Sta Desc: | |
| Well No: | 001 | LUW Code: | |
| Well Serial: | 174337 | LUW Type C: | |
| Well Class: | | LUW Name: | |
| Well Name: | J W COATS | Injection: | 0.0 |
| Well Sta 1: | 06/19/2001 | Injection1: | 0 |
| Well Statu: | 30 | Injection2: | |
| Well Stat1: | | Inspecti 1: | 0.0 |
| Well Stat2: | | Inspection: | |
| Orgop Line: | 1 | Inspection1: | |
| Lease No: | | Inspection2: | |
| FID: | | Orphan S 1: | 01/20/1994 |
| Field ID: | 7644 | Orphan Sta: | 23 |
| Field Name: | REDOAK LAKE | Orphan St1: | |
| Permit Date: | 03/24/1981 | Orphan St2: | |
| Spud Date: | | Orphaned F: | Yes |
| Orig Completn Date: | | Operator Type: | 01 |
| Last Completn Date: | | Organization: | 4417 |
| Last Test Date: | | Parish Code: | 41 |
| Effective Date: | 06/19/2001 | Parish Name: | RED RIVER |
| Product Type: | 00 | District Code: | |
| Classification: | | Township: | 11N |
| Mud Density: | 0.0 | Section: | 012 |
| Meas Total Depth: | 0 | Section PLSS: | 012 |
| Directional Well: | | Meridian: | W |
| USDW Value: | 0 | Well Range: | 10W |
| Area USDW: | 0 | State Inte: | No |
| Max SIP: | 0 | State Zone: | NORTH |

# Wells and Additional Sources Detail Report

| | | | |
|---|---|---|---|
| SIP Assign: | | Surface 1: | 1737862.0 |
| Unit Well: | No | Surface 2: | 470027.0 |
| Mineral In: | No | Surface 3: | 3535633.0562282 |
| Exempt 29E: | No | Surface UT: | 467360.123101862 |
| Log Review: | | Surface Lo: | -93.345400286 |
| Coastal Pe: | | Surface LA: | 31.956207301 |
| Scout Well: | | Surface L2: | |
| Scout Repo: | | Surface L3: | |
| Scout Meas: | 0.0 | Surface U1: | |
| Scout True: | 0.0 | Surface U2: | |
| Upper Perf: | | Surface Co: | 01 |
| Lower Perf: | | Surface Zo: | North |
| LW Rec Sta: | | GIS Upd Date: | |
| Hyperlink: | http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=174337 | | |
| Doc Access: | http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=174337 | | |
| Comments: | | | |
| Comments on USDW Calculation: | | | |
| Legend Description: | PLUGGED AND ABANDONED NO PRODUCT SPECIFIED | | |
| Legend: | 3000 | | |
| Formations: | | | |
| Reservoirs: | | | |
| Sands: | | | |
| Source of MASIO Determin: | | | |
| Location: | | | |
| Scout Deta: | | | |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 2 | WSW | 0.22 | 1,142.84 | 128.45 | OGW |

| | | | |
|---|---|---|---|
| API No: | 17081203880000 | LW Rec Sta Desc: | |
| Well No: | 001 | LUW Code: | |
| Well Serial: | 171462 | LUW Type C: | |
| Well Class: | | LUW Name: | |
| Well Name: | J W COATS | Injection: | 0.0 |
| Well Sta 1: | 03/30/1981 | Injection1: | 0 |
| Well Statu: | 03 | Injection2: | |
| Well Stat1: | | Inspecti 1: | 0.0 |
| Well Stat2: | | Inspection: | |
| Orgop Line: | 1 | Inspection1: | |
| Lease No: | | Inspection2: | |
| FID: | | Orphan S 1: | |
| Field ID: | 7644 | Orphan Sta: | |
| Field Name: | REDOAK LAKE | Orphan St1: | |
| Permit Date: | 10/01/1980 | Orphan St2: | |
| Spud Date: | | Orphaned F: | |
| Orig Completn Date: | | Operator Type: | 01 |

# Wells and Additional Sources Detail Report

| | | | |
|---|---|---|---|
| Last Completn Date: | | Organization: | 9999 |
| Last Test Date: | | Parish Code: | 41 |
| Effective Date: | 10/01/1980 | Parish Name: | RED RIVER |
| Product Type: | 00 | District Code: | |
| Classification: | | Township: | 11N |
| Mud Density: | 0.0 | Section: | 012 |
| Meas Total Depth: | 0 | Section PLSS: | 012 |
| Directional Well: | | Meridian: | W |
| USDW Value: | 0 | Well Range: | 10W |
| Area USDW: | 0 | State Inte: | No |
| Max SIP: | 0 | State Zone: | NORTH |
| SIP Assign: | | Surface 1: | 1737833.0 |
| Unit Well: | No | Surface 2: | 469994.0 |
| Mineral In: | No | Surface 3: | 3535622.96013977 |
| Exempt 29E: | No | Surface UT: | 467351.332910349 |
| Log Review: | | Surface Lo: | -93.345492962 |
| Coastal Pe: | | Surface LA: | 31.956115963 |
| Scout Well: | | Surface L2: | |
| Scout Repo: | | Surface L3: | |
| Scout Meas: | 0.0 | Surface U1: | |
| Scout True: | 0.0 | Surface U2: | |
| Upper Perf: | | Surface Co: | 01 |
| Lower Perf: | | Surface Zo: | North |
| LW Rec Sta: | | GIS Upd Date: | |
| Hyperlink: | http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=171462 | | |
| Doc Access: | http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=171462 | | |
| Comments: | | | |
| Comments on USDW Calculation: | | | |
| Legend Description: | PERMIT EXPIRED | | |
| Legend: | 03 | | |
| Formations: | | | |
| Reservoirs: | | | |
| Sands: | | | |
| Source of MASIO Determin: | | | |
| Location: | | | |
| Scout Deta: | | | |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 8 | SW | 0.37 | 1,974.22 | 126.84 | OGW |

| | | | |
|---|---|---|---|
| API No: | 17081006700000 | LW Rec Sta Desc: | |
| Well No: | 001 | LUW Code: | |
| Well Serial: | 106611 | LUW Type C: | |
| Well Class: | | LUW Name: | |
| Well Name: | J W COATS | Injection: | 0.0 |
| Well Sta 1: | 05/10/1967 | Injection1: | 0 |

# Wells and Additional Sources Detail Report

| | | | |
|---|---|---|---|
| Well Statu: | 29 | Injection2: | |
| Well Stat1: | | Inspecti 1: | 0.0 |
| Well Stat2: | | Inspection: | |
| Orgop Line: | 1 | Inspection1: | |
| Lease No: | | Inspection2: | |
| FID: | | Orphan S 1: | |
| Field ID: | 5252 | Orphan Sta: | |
| Field Name: | LAKE END | Orphan St1: | |
| Permit Date: | 12/07/1964 | Orphan St2: | |
| Spud Date: | 12/07/1964 | Orphaned F: | |
| Orig Completn Date: | 05/10/1967 | Operator Type: | 01 |
| Last Completn Date: | | Organization: | 9999 |
| Last Test Date: | | Parish Code: | 41 |
| Effective Date: | 12/01/1976 | Parish Name: | RED RIVER |
| Product Type: | 00 | District Code: | |
| Classification: | | Township: | 11N |
| Mud Density: | 0.0 | Section: | 012 |
| Meas Total Depth: | 1830 | Section PLSS: | 012 |
| Directional Well: | | Meridian: | W |
| USDW Value: | 0 | Well Range: | 10W |
| Area USDW: | 0 | State Inte: | No |
| Max SIP: | 0 | State Zone: | NORTH |
| SIP Assign: | | Surface 1: | 1737243.0 |
| Unit Well: | No | Surface 2: | 469399.0 |
| Mineral In: | No | Surface 3: | 3535440.83052695 |
| Exempt 29E: | No | Surface UT: | 467172.390729317 |
| Log Review: | | Surface Lo: | -93.347380305 |
| Coastal Pe: | | Surface LA: | 31.954467676 |
| Scout Well: | | Surface L2: | |
| Scout Repo: | | Surface L3: | |
| Scout Meas: | 0.0 | Surface U1: | |
| Scout True: | 0.0 | Surface U2: | |
| Upper Perf: | | Surface Co: | 01 |
| Lower Perf: | | Surface Zo: | North |
| LW Rec Sta: | | GIS Upd Date: | |
| Hyperlink: | http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=106611 | | |
| Doc Access: | http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=106611 | | |
| Comments: | | | |
| Comments on USDW Calculation: | | | |
| Legend Description: | DRY AND PLUGGED NO PRODUCT SPECIFIED | | |
| Legend: | 2900 | | |
| Formations: | | | |
| Reservoirs: | | | |
| Sands: | | | |
| Source of MASIO Determin: | | | |
| Location: | | | |

# Wells and Additional Sources Detail Report

Scout Deta:

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 11 | SSE | 0.32 | 1,679.16 | 127.47 | OGW |

| | | | |
|---|---|---|---|
| API No: | 17081006680000 | LW Rec Sta Desc: | |
| Well No: | 001 | LUW Code: | |
| Well Serial: | 85797 | LUW Type C: | |
| Well Class: | | LUW Name: | |
| Well Name: | SMITH | Injection: | 0.0 |
| Well Sta 1: | 06/19/2001 | Injection1: | 0 |
| Well Statu: | 30 | Injection2: | |
| Well Stat1: | | Inspecti 1: | 0.0 |
| Well Stat2: | | Inspection: | |
| Orgop Line: | 1 | Inspection1: | |
| Lease No: | | Inspection2: | |
| FID: | | Orphan S 1: | 01/20/1994 |
| Field ID: | 5252 | Orphan Sta: | 23 |
| Field Name: | LAKE END | Orphan St1: | |
| Permit Date: | 07/28/1961 | Orphan St2: | |
| Spud Date: | 08/10/1961 | Orphaned F: | Yes |
| Orig Completn Date: | 09/20/1961 | Operator Type: | 01 |
| Last Completn Date: | | Organization: | 4990 |
| Last Test Date: | | Parish Code: | 41 |
| Effective Date: | 06/19/2001 | Parish Name: | RED RIVER |
| Product Type: | 00 | District Code: | |
| Classification: | | Township: | 11N |
| Mud Density: | 0.0 | Section: | 008 |
| Meas Total Depth: | 1353 | Section PLSS: | 008 |
| Directional Well: | | Meridian: | W |
| USDW Value: | 0 | Well Range: | 09W |
| Area USDW: | 0 | State Inte: | No |
| Max SIP: | 0 | State Zone: | NORTH |
| SIP Assign: | | Surface 1: | 1740546.0 |
| Unit Well: | No | Surface 2: | 467336.0 |
| Mineral In: | No | Surface 3: | 3534816.84187321 |
| Exempt 29E: | No | Surface UT: | 468181.737555733 |
| Log Review: | | Surface Lo: | -93.336679266 |
| Coastal Pe: | | Surface LA: | 31.94886699 |
| Scout Well: | | Surface L2: | |
| Scout Repo: | | Surface L3: | |
| Scout Meas: | 0.0 | Surface U1: | |
| Scout True: | 0.0 | Surface U2: | |
| Upper Perf: | 1189 | Surface Co: | 01 |
| Lower Perf: | 1191 | Surface Zo: | North |
| LW Rec Sta: | | GIS Upd Date: | |

# Wells and Additional Sources Detail Report

| | |
|---|---|
| Hyperlink: | http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=85797 |
| Doc Access: | http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=85797 |
| Comments: | |
| Comments on USDW Calculation: | |
| Legend Description: | PLUGGED AND ABANDONED NO PRODUCT SPECIFIED |
| Legend: | 3000 |
| Formations: | |
| Reservoirs: | |
| Sands: | NAC |
| Source of MASIO Determin: | |
| Location: | |
| Scout Deta: | |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 12 | SE | 0.44 | 2,330.97 | 129.29 | OGW |

| | | | |
|---|---|---|---|
| API No: | 17081208300000 | LW Rec Sta Desc: | |
| Well No: | 001 | LUW Code: | |
| Well Serial: | 228672 | LUW Type C: | |
| Well Class: | | LUW Name: | |
| Well Name: | ROD RA SUK;SMITH | Injection: | 0.0 |
| Well Sta 1: | 12/11/2003 | Injection1: | 0 |
| Well Statu: | 29 | Injection2: | |
| Well Stat1: | | Inspecti 1: | 0.0 |
| Well Stat2: | | Inspection: | |
| Orgop Line: | 1 | Inspection1: | |
| Lease No: | | Inspection2: | |
| FID: | | Orphan S 1: | |
| Field ID: | 7644 | Orphan Sta: | |
| Field Name: | REDOAK LAKE | Orphan St1: | |
| Permit Date: | 09/24/2003 | Orphan St2: | |
| Spud Date: | 12/03/2003 | Orphaned F: | |
| Orig Completn Date: | | Operator Type: | 01 |
| Last Completn Date: | | Organization: | 2693 |
| Last Test Date: | | Parish Code: | 41 |
| Effective Date: | 12/11/2003 | Parish Name: | RED RIVER |
| Product Type: | 00 | District Code: | |
| Classification: | | Township: | 11N |
| Mud Density: | 0.0 | Section: | 008 |
| Meas Total Depth: | 5470 | Section PLSS: | 008 |
| Directional Well: | | Meridian: | W |
| USDW Value: | 0 | Well Range: | 09W |
| Area USDW: | 0 | State Inte: | |
| Max SIP: | 0 | State Zone: | NORTH |
| SIP Assign: | | Surface 1: | 1742409.0 |
| Unit Well: | | Surface 2: | 468602.0 |

# Wells and Additional Sources Detail Report

| | | | |
|---|---|---|---|
| Mineral In: | | Surface 3: | 3535205.21629938 |
| Exempt 29E: | | Surface UT: | 468747.629962048 |
| Log Review: | | Surface Lo: | -93.330704128 |
| Coastal Pe: | | Surface LA: | 31.952386535 |
| Scout Well: | 29 | Surface L2: | |
| Scout Repo: | 01/08/2004 | Surface L3: | |
| Scout Meas: | 5470.0 | Surface U1: | |
| Scout True: | 0.0 | Surface U2: | |
| Upper Perf: | | Surface Co: | 01 |
| Lower Perf: | | Surface Zo: | North |
| LW Rec Sta: | | GIS Upd Date: | |
| Hyperlink: | http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=228672 | | |
| Doc Access: | http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=228672 | | |
| Comments: | | | |
| Comments on USDW Calculation: | | | |
| Legend Description: | DRY AND PLUGGED NO PRODUCT SPECIFIED | | |
| Legend: | 2900 | | |
| Formations: | | | |
| Reservoirs: | | | |
| Sands: | | | |
| Source of MASIO Determin: | | | |
| Location: | FROM SE CORNER OF SEC 12, T11N, R10W, GO N 2013' ALG E LINE OF SEC 12, THENCE E 2348' TO SURF LOC IN SEC 8. | | |
| Scout Deta: | PLUGGED AND ABANDONED 12-11-03 | | |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 13 | ENE | 0.52 | 2,766.99 | 118.34 | OGW |

| | | | |
|---|---|---|---|
| API No: | 17081204290000 | LW Rec Sta Desc: | |
| Well No: | 002 | LUW Code: | |
| Well Serial: | 174989 | LUW Type C: | |
| Well Class: | | LUW Name: | |
| Well Name: | ALEXI | Injection: | 0.0 |
| Well Sta 1: | 06/25/2001 | Injection1: | 0 |
| Well Statu: | 30 | Injection2: | |
| Well Stat1: | | Inspecti 1: | 0.0 |
| Well Stat2: | | Inspection: | |
| Orgop Line: | 1 | Inspection1: | |
| Lease No: | | Inspection2: | |
| FID: | | Orphan S 1: | 01/20/1994 |
| Field ID: | 5252 | Orphan Sta: | 23 |
| Field Name: | LAKE END | Orphan St1: | |
| Permit Date: | 04/27/1981 | Orphan St2: | |
| Spud Date: | 04/28/1981 | Orphaned F: | Yes |
| Orig Completn Date: | | Operator Type: | 01 |
| Last Completn Date: | | Organization: | 2095 |

# Wells and Additional Sources Detail Report

| | | | |
|---|---|---|---|
| Last Test Date: | | Parish Code: | 41 |
| Effective Date: | 06/25/2001 | Parish Name: | RED RIVER |
| Product Type: | 00 | District Code: | |
| Classification: | | Township: | 11N |
| Mud Density: | 0.0 | Section: | 006 |
| Meas Total Depth: | 2000 | Section PLSS: | 006 |
| Directional Well: | | Meridian: | W |
| USDW Value: | 0 | Well Range: | 09W |
| Area USDW: | 0 | State Inte: | No |
| Max SIP: | 0 | State Zone: | NORTH |
| SIP Assign: | | Surface 1: | 1742791.0 |
| Unit Well: | No | Surface 2: | 472498.0 |
| Mineral In: | No | Surface 3: | 3536392.9031687 |
| Exempt 29E: | No | Surface UT: | 468858.557677942 |
| Log Review: | | Surface Lo: | -93.329568622 |
| Coastal Pe: | | Surface LA: | 31.963104572 |
| Scout Well: | | Surface L2: | |
| Scout Repo: | | Surface L3: | |
| Scout Meas: | 0.0 | Surface U1: | |
| Scout True: | 0.0 | Surface U2: | |
| Upper Perf: | | Surface Co: | 01 |
| Lower Perf: | | Surface Zo: | North |
| LW Rec Sta: | | GIS Upd Date: | |
| Hyperlink: | http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=174989 | | |
| Doc Access: | http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=174989 | | |
| Comments: | | | |
| Comments on USDW Calculation: | | | |
| Legend Description: | PLUGGED AND ABANDONED NO PRODUCT SPECIFIED | | |
| Legend: | 3000 | | |
| Formations: | | | |
| Reservoirs: | | | |
| Sands: | | | |
| Source of MASIO Determin: | | | |
| Location: | | | |
| Scout Deta: | | | |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 16 | S | 0.48 | 2,559.96 | 126.08 | OGW |

| | | | |
|---|---|---|---|
| API No: | 17081006690000 | LW Rec Sta Desc: | |
| Well No: | 001 | LUW Code: | |
| Well Serial: | 70753 | LUW Type C: | |
| Well Class: | | LUW Name: | |
| Well Name: | J W COATS | Injection: | 0.0 |
| Well Sta 1: | 04/15/1963 | Injection1: | 0 |
| Well Statu: | 29 | Injection2: | |

# Wells and Additional Sources Detail Report

| | | | |
|---|---|---|---|
| Well Stat1: | | Inspecti 1: | 0.0 |
| Well Stat2: | | Inspection: | |
| Orgop Line: | 1 | Inspection1: | |
| Lease No: | | Inspection2: | |
| FID: | | Orphan S 1: | |
| Field ID: | 5252 | Orphan Sta: | |
| Field Name: | LAKE END | Orphan St1: | |
| Permit Date: | 06/09/1958 | Orphan St2: | |
| Spud Date: | 06/13/1958 | Orphaned F: | |
| Orig Completn Date: | 06/30/1958 | Operator Type: | 01 |
| Last Completn Date: | | Organization: | 9999 |
| Last Test Date: | | Parish Code: | 41 |
| Effective Date: | 12/01/1976 | Parish Name: | RED RIVER |
| Product Type: | 00 | District Code: | |
| Classification: | | Township: | 11N |
| Mud Density: | 0.0 | Section: | 012 |
| Meas Total Depth: | 1303 | Section PLSS: | 012 |
| Directional Well: | | Meridian: | W |
| USDW Value: | 170 | Well Range: | 10W |
| Area USDW: | 0 | State Inte: | No |
| Max SIP: | 0 | State Zone: | NORTH |
| SIP Assign: | | Surface 1: | 1739670.0 |
| Unit Well: | No | Surface 2: | 466433.0 |
| Mineral In: | No | Surface 3: | 3534540.46055622 |
| Exempt 29E: | No | Surface UT: | 467916.081752375 |
| Log Review: | | Surface Lo: | -93.339480991 |
| Coastal Pe: | | Surface LA: | 31.946366069 |
| Scout Well: | | Surface L2: | |
| Scout Repo: | | Surface L3: | |
| Scout Meas: | 0.0 | Surface U1: | |
| Scout True: | 0.0 | Surface U2: | |
| Upper Perf: | | Surface Co: | 01 |
| Lower Perf: | | Surface Zo: | North |
| LW Rec Sta: | | GIS Upd Date: | |
| Hyperlink: | http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=70753 | | |
| Doc Access: | http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=70753 | | |
| Comments: | USDW 170 NOTES:<br>USDW 170 NOTES: | | |
| Comments on USDW Calculation: | | | |
| Legend Description: | DRY AND PLUGGED NO PRODUCT SPECIFIED | | |
| Legend: | 2900 | | |
| Formations: | | | |
| Reservoirs: | | | |
| Sands: | | | |
| Source of MASIO Determin: | | | |
| Location: | | | |
| Scout Deta: | | | |

# Wells and Additional Sources Detail Report

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 17 | S | 0.52 | 2,770.56 | 126.16 | OGW |

| | | | |
|---|---|---|---|
| API No: | 17081211030000 | LW Rec Sta Desc: | Active |
| Well No: | 001 | LUW Code: | 616336 |
| Well Serial: | 240624 | LUW Type C: | 2 |
| Well Class: | | LUW Name: | HA RA SUG;VIRGINIA WEBB 13 H |
| Well Name: | HA RA SUG;VIRGINIA WEBB 13 H | Injection: | 0.0 |
| Well Sta 1: | 11/25/2014 | Injection1: | 0 |
| Well Statu: | 10 | Injection2: | |
| Well Stat1: | | Inspecti 1: | 0.0 |
| Well Stat2: | | Inspection: | |
| Orgop Line: | 1 | Inspection1: | |
| Lease No: | | Inspection2: | |
| FID: | | Orphan S 1: | |
| Field ID: | 7644 | Orphan Sta: | |
| Field Name: | REDOAK LAKE | Orphan St1: | |
| Permit Date: | 12/30/2009 | Orphan St2: | |
| Spud Date: | 01/11/2010 | Orphaned F: | |
| Orig Completn Date: | 06/09/2010 | Operator Type: | 01 |
| Last Completn Date: | | Organization: | C441 |
| Last Test Date: | 03/27/2023 | Parish Code: | 41 |
| Effective Date: | 11/01/2021 | Parish Name: | RED RIVER |
| Product Type: | 20 | District Code: | 3N |
| Classification: | | Township: | 11N |
| Mud Density: | 0.0 | Section: | 013 |
| Meas Total Depth: | 16079 | Section PLSS: | 013 |
| Directional Well: | | Meridian: | W |
| USDW Value: | 0 | Well Range: | 10W |
| Area USDW: | 0 | State Inte: | |
| Max SIP: | 0 | State Zone: | NORTH |
| SIP Assign: | | Surface 1: | 1739625.0 |
| Unit Well: | Yes | Surface 2: | 466227.0 |
| Mineral In: | No | Surface 3: | 3534477.62712373 |
| Exempt 29E: | | Surface UT: | 467902.659213612 |
| Log Review: | | Surface Lo: | -93.339620925 |
| Coastal Pe: | | Surface LA: | 31.945798823 |
| Scout Well: | 10 | Surface L2: | |
| Scout Repo: | 09/14/2010 | Surface L3: | |
| Scout Meas: | 16079.0 | Surface U1: | |
| Scout True: | 0.0 | Surface U2: | |
| Upper Perf: | 13619 | Surface Co: | 01 |
| Lower Perf: | 15924 | Surface Zo: | North |
| LW Rec Sta: | A | GIS Upd Date: | |
| Hyperlink: | http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=240624 | | |

# Wells and Additional Sources Detail Report

| | |
|---|---|
| Doc Access: | http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=240624 |
| Comments: | |
| Comments on USDW Calculation: | |
| Legend Description: | ACTIVE - PRODUCING GAS |
| Legend: | -1 |
| Formations: | |
| Reservoirs: | RA |
| Sands: | HA |
| Source of MASIO Determin: | |
| Location: | 387' FNL & 412' FEL OF SEC 13. PBHL: 380' FSL & 380' FEL OF SEC 13. |
| Scout Deta: | COMPLETED 6-9-10; GAS; HAYNESVILLE RA; 16,650 MCFD; 19/64 CHOKE; 9657# CP; PERFS 13,619-15,924' MD |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 18 | SE | 0.52 | 2,756.71 | 127.53 | OGW |

| | | | |
|---|---|---|---|
| API No: | 17081202600000 | LW Rec Sta Desc: | |
| Well No: | 001 | LUW Code: | |
| Well Serial: | 155536 | LUW Type C: | |
| Well Class: | | LUW Name: | |
| Well Name: | J W COATS | Injection: | 0.0 |
| Well Sta 1: | 05/18/1977 | Injection1: | 0 |
| Well Statu: | 29 | Injection2: | |
| Well Stat1: | | Inspecti 1: | 0.0 |
| Well Stat2: | | Inspection: | |
| Orgop Line: | 1 | Inspection1: | |
| Lease No: | | Inspection2: | |
| FID: | | Orphan S 1: | |
| Field ID: | 5252 | Orphan Sta: | |
| Field Name: | LAKE END | Orphan St1: | |
| Permit Date: | 05/16/1977 | Orphan St2: | |
| Spud Date: | 05/13/1977 | Orphaned F: | |
| Orig Completn Date: | 05/15/1977 | Operator Type: | 01 |
| Last Completn Date: | | Organization: | 6182 |
| Last Test Date: | | Parish Code: | 41 |
| Effective Date: | 05/01/1977 | Parish Name: | RED RIVER |
| Product Type: | 00 | District Code: | |
| Classification: | | Township: | 11N |
| Mud Density: | 0.0 | Section: | 008 |
| Meas Total Depth: | 1312 | Section PLSS: | 008 |
| Directional Well: | | Meridian: | W |
| USDW Value: | 0 | Well Range: | 09W |
| Area USDW: | 0 | State Inte: | No |
| Max SIP: | 0 | State Zone: | NORTH |
| SIP Assign: | | Surface 1: | 1741969.0 |
| Unit Well: | No | Surface 2: | 466925.0 |

| | | | |
|---|---|---|---|
| Mineral In: | No | Surface 3: | 3534693.60029522 |
| Exempt 29E: | No | Surface UT: | 468615.913714471 |
| Log Review: | | Surface Lo: | -93.332081262 |
| Coastal Pe: | | Surface LA: | 31.947767234 |
| Scout Well: | | Surface L2: | |
| Scout Repo: | | Surface L3: | |
| Scout Meas: | 0.0 | Surface U1: | |
| Scout True: | 0.0 | Surface U2: | |
| Upper Perf: | | Surface Co: | 01 |
| Lower Perf: | | Surface Zo: | North |
| LW Rec Sta: | | GIS Upd Date: | |
| Hyperlink: | http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=155536 | | |
| Doc Access: | http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=155536 | | |
| Comments: | | | |
| Comments on USDW Calculation: | | | |
| Legend Description: | DRY AND PLUGGED NO PRODUCT SPECIFIED | | |
| Legend: | 2900 | | |
| Formations: | | | |
| Reservoirs: | | | |
| Sands: | | | |
| Source of MASIO Determin: | | | |
| Location: | | | |
| Scout Deta: | | | |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 20 | E | 0.75 | 3,938.88 | 132.59 | OGW |

| | | | |
|---|---|---|---|
| API No: | 17081203170000 | LW Rec Sta Desc: | |
| Well No: | 001 | LUW Code: | |
| Well Serial: | 159072 | LUW Type C: | |
| Well Class: | | LUW Name: | |
| Well Name: | C H SMITH | Injection: | 0.0 |
| Well Sta 1: | 10/27/2003 | Injection1: | 0 |
| Well Statu: | 30 | Injection2: | |
| Well Stat1: | | Inspecti 1: | 0.0 |
| Well Stat2: | | Inspection: | |
| Orgop Line: | 1 | Inspection1: | |
| Lease No: | | Inspection2: | |
| FID: | | Orphan S 1: | 05/20/2000 |
| Field ID: | 7644 | Orphan Sta: | 23 |
| Field Name: | REDOAK LAKE | Orphan St1: | |
| Permit Date: | 04/19/1978 | Orphan St2: | |
| Spud Date: | 05/15/1978 | Orphaned F: | Yes |
| Orig Completn Date: | 08/04/1978 | Operator Type: | 01 |
| Last Completn Date: | | Organization: | B073 |
| Last Test Date: | | Parish Code: | 41 |

# Wells and Additional Sources Detail Report

| | | | |
|---|---|---|---|
| Effective Date: | 10/27/2003 | Parish Name: | RED RIVER |
| Product Type: | 00 | District Code: | |
| Classification: | | Township: | 11N |
| Mud Density: | 0.0 | Section: | 008 |
| Meas Total Depth: | 1319 | Section PLSS: | 008 |
| Directional Well: | | Meridian: | W |
| USDW Value: | 0 | Well Range: | 09W |
| Area USDW: | 0 | State Inte: | No |
| Max SIP: | 0 | State Zone: | NORTH |
| SIP Assign: | | Surface 1: | 1744050.0 |
| Unit Well: | No | Surface 2: | 469950.0 |
| Mineral In: | No | Surface 3: | 3535618.26569442 |
| Exempt 29E: | No | Surface UT: | 469245.761996195 |
| Log Review: | | Surface Lo: | -93.325446343 |
| Coastal Pe: | | Surface LA: | 31.956126575 |
| Scout Well: | | Surface L2: | |
| Scout Repo: | | Surface L3: | |
| Scout Meas: | 0.0 | Surface U1: | |
| Scout True: | 0.0 | Surface U2: | |
| Upper Perf: | 1172 | Surface Co: | 01 |
| Lower Perf: | 1289 | Surface Zo: | North |
| LW Rec Sta: | | GIS Upd Date: | |
| Hyperlink: | http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=159072 | | |
| Doc Access: | http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=159072 | | |
| Comments: | | | |
| Comments on USDW Calculation: | | | |
| Legend Description: | PLUGGED AND ABANDONED NO PRODUCT SPECIFIED | | |
| Legend: | 3000 | | |
| Formations: | | | |
| Reservoirs: | | | |
| Sands: | NACATOCH | | |
| Source of MASIO Determin: | | | |
| Location: | | | |
| Scout Deta: | | | |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 21 | ESE | 0.70 | 3,675.26 | 130.66 | OGW |

| | | | |
|---|---|---|---|
| API No: | 17081203050000 | LW Rec Sta Desc: | |
| Well No: | 001 | LUW Code: | |
| Well Serial: | 158729 | LUW Type C: | |
| Well Class: | | LUW Name: | |
| Well Name: | J W COATS | Injection: | 0.0 |
| Well Sta 1: | 05/13/2003 | Injection1: | 0 |
| Well Statu: | 30 | Injection2: | |
| Well Stat1: | | Inspecti 1: | 0.0 |

# Wells and Additional Sources Detail Report

| | | | |
|---|---|---|---|
| Well Stat2: | | Inspection: | |
| Orgop Line: | 1 | Inspection1: | |
| Lease No: | | Inspection2: | |
| FID: | | Orphan S 1: | 05/20/2000 |
| Field ID: | 7644 | Orphan Sta: | 23 |
| Field Name: | REDOAK LAKE | Orphan St1: | |
| Permit Date: | 03/15/1978 | Orphan St2: | |
| Spud Date: | 04/18/1978 | Orphaned F: | Yes |
| Orig Completn Date: | 06/01/1978 | Operator Type: | 01 |
| Last Completn Date: | | Organization: | B073 |
| Last Test Date: | | Parish Code: | 41 |
| Effective Date: | 05/13/2003 | Parish Name: | RED RIVER |
| Product Type: | 00 | District Code: | |
| Classification: | | Township: | 11N |
| Mud Density: | 0.0 | Section: | 008 |
| Meas Total Depth: | 1300 | Section PLSS: | 008 |
| Directional Well: | | Meridian: | W |
| USDW Value: | 0 | Well Range: | 09W |
| Area USDW: | 0 | State Inte: | No |
| Max SIP: | 0 | State Zone: | NORTH |
| SIP Assign: | | Surface 1: | 1743780.0 |
| Unit Well: | No | Surface 2: | 468880.0 |
| Mineral In: | No | Surface 3: | 3535291.84725083 |
| Exempt 29E: | No | Surface UT: | 469164.99353163 |
| Log Review: | | Surface Lo: | -93.326290609 |
| Coastal Pe: | | Surface LA: | 31.953179521 |
| Scout Well: | | Surface L2: | |
| Scout Repo: | | Surface L3: | |
| Scout Meas: | 0.0 | Surface U1: | |
| Scout True: | 0.0 | Surface U2: | |
| Upper Perf: | 1178 | Surface Co: | 01 |
| Lower Perf: | 1245 | Surface Zo: | North |
| LW Rec Sta: | | GIS Upd Date: | |
| Hyperlink: | http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=158729 | | |
| Doc Access: | http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=158729 | | |
| Comments: | | | |
| Comments on USDW Calculation: | | | |
| Legend Description: | PLUGGED AND ABANDONED NO PRODUCT SPECIFIED | | |
| Legend: | 3000 | | |
| Formations: | | | |
| Reservoirs: | | | |
| Sands: | NACATOCH | | |
| Source of MASIO Determin: | | | |
| Location: | | | |
| Scout Deta: | | | |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|

# Wells and Additional Sources Detail Report

| | | | | | |
|---|---|---|---|---|---|
| 22 | W | 0.68 | 3,565.98 | 128.49 | OGW |

| | | | |
|---|---|---|---|
| API No: | 17081210740000 | LW Rec Sta Desc: | Active |
| Well No: | 001 | LUW Code: | 616685 |
| Well Serial: | 240321 | LUW Type C: | 2 |
| Well Class: | | LUW Name: | HA RA SUD; |
| Well Name: | HA RA SUD;LYSANDER WEBB 11 H | Injection: | 0.0 |
| Well Sta 1: | 01/26/2011 | Injection1: | 0 |
| Well Statu: | 10 | Injection2: | |
| Well Stat1: | | Inspecti 1: | 0.0 |
| Well Stat2: | | Inspection: | |
| Orgop Line: | 1 | Inspection1: | |
| Lease No: | | Inspection2: | |
| FID: | | Orphan S 1: | |
| Field ID: | 7644 | Orphan Sta: | |
| Field Name: | REDOAK LAKE | Orphan St1: | |
| Permit Date: | 10/12/2009 | Orphan St2: | |
| Spud Date: | 10/13/2009 | Orphaned F: | |
| Orig Completn Date: | 01/26/2011 | Operator Type: | 01 |
| Last Completn Date: | | Organization: | S9226 |
| Last Test Date: | 04/03/2023 | Parish Code: | 41 |
| Effective Date: | 09/01/2021 | Parish Name: | RED RIVER |
| Product Type: | 20 | District Code: | 3N |
| Classification: | | Township: | 11N |
| Mud Density: | 0.0 | Section: | 011 |
| Meas Total Depth: | 17480 | Section PLSS: | 011 |
| Directional Well: | | Meridian: | W |
| USDW Value: | 0 | Well Range: | 10W |
| Area USDW: | 0 | State Inte: | |
| Max SIP: | 0 | State Zone: | NORTH |
| SIP Assign: | | Surface 1: | 1734351.0 |
| Unit Well: | Yes | Surface 2: | 471564.0 |
| Mineral In: | | Surface 3: | 3536096.47618313 |
| Exempt 29E: | | Surface UT: | 466288.135390642 |
| Log Review: | | Surface Lo: | -93.356759995 |
| Coastal Pe: | | Surface LA: | 31.960356772 |
| Scout Well: | 10 | Surface L2: | |
| Scout Repo: | 04/08/2011 | Surface L3: | |
| Scout Meas: | 17480.0 | Surface U1: | |
| Scout True: | 0.0 | Surface U2: | |
| Upper Perf: | 13592 | Surface Co: | 01 |
| Lower Perf: | 17378 | Surface Zo: | North |
| LW Rec Sta: | A | GIS Upd Date: | |
| Hyperlink: | http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=240321 | | |
| Doc Access: | http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=240321 | | |
| Comments: | | | |

# Wells and Additional Sources Detail Report

| | |
|---|---|
| Comments on USDW Calculation: | |
| Legend Description: | ACTIVE - PRODUCING GAS |
| Legend: | -1 |
| Formations: | |
| Reservoirs: | RA |
| Sands: | HA |
| Source of MASIO Determin: | |
| Location: | 380' FNL & 380' FEL OF SEC 11. PBHL: 380' FSL & 380' FEL OF SEC 11. |
| Scout Deta: | COMPLETED 1-26-11; GAS; HAYNESVILLE RA; 21,981 MCFD; 22/64 CHOKE; 216 BWD; NO TUBING FP; 9923# CP; PERFS 13,592-17,378' MC |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 25 | SE | 0.74 | 3,900.07 | 129.59 | OGW |

| | | | |
|---|---|---|---|
| API No: | 17081203080000 | LW Rec Sta Desc: | |
| Well No: | 002 | LUW Code: | |
| Well Serial: | 158800 | LUW Type C: | |
| Well Class: | | LUW Name: | |
| Well Name: | J W COATS | Injection: | 0.0 |
| Well Sta 1: | 05/13/2003 | Injection1: | 0 |
| Well Statu: | 30 | Injection2: | |
| Well Stat1: | | Inspecti 1: | 0.0 |
| Well Stat2: | | Inspection: | |
| Orgop Line: | 1 | Inspection1: | |
| Lease No: | | Inspection2: | |
| FID: | | Orphan S 1: | 05/20/2000 |
| Field ID: | 7644 | Orphan Sta: | 23 |
| Field Name: | REDOAK LAKE | Orphan St1: | |
| Permit Date: | 03/22/1978 | Orphan St2: | |
| Spud Date: | 04/14/1978 | Orphaned F: | Yes |
| Orig Completn Date: | 06/01/1978 | Operator Type: | 01 |
| Last Completn Date: | | Organization: | B073 |
| Last Test Date: | | Parish Code: | 41 |
| Effective Date: | 05/13/2003 | Parish Name: | RED RIVER |
| Product Type: | 00 | District Code: | |
| Classification: | | Township: | 11N |
| Mud Density: | 0.0 | Section: | 008 |
| Meas Total Depth: | 1318 | Section PLSS: | 008 |
| Directional Well: | | Meridian: | W |
| USDW Value: | 0 | Well Range: | 09W |
| Area USDW: | 0 | State Inte: | No |
| Max SIP: | 0 | State Zone: | NORTH |
| SIP Assign: | | Surface 1: | 1743739.0 |
| Unit Well: | No | Surface 2: | 467539.0 |
| Mineral In: | No | Surface 3: | 3534883.17322911 |
| Exempt 29E: | No | Surface UT: | 469154.383725985 |

# Wells and Additional Sources Detail Report

| | | | |
|---|---|---|---|
| Log Review: | | Surface Lo: | -93.32638984 |
| Coastal Pe: | | Surface LA: | 31.949492283 |
| Scout Well: | | Surface L2: | |
| Scout Repo: | | Surface L3: | |
| Scout Meas: | 0.0 | Surface U1: | |
| Scout True: | 0.0 | Surface U2: | |
| Upper Perf: | 1188 | Surface Co: | 01 |
| Lower Perf: | 1278 | Surface Zo: | North |
| LW Rec Sta: | | GIS Upd Date: | |
| Hyperlink: | http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=158800 | | |
| Doc Access: | http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=158800 | | |
| Comments: | | | |
| Comments on USDW Calculation: | | | |
| Legend Description: | PLUGGED AND ABANDONED NO PRODUCT SPECIFIED | | |
| Legend: | 3000 | | |
| Formations: | | | |
| Reservoirs: | | | |
| Sands: | NACATOCH | | |
| Source of MASIO Determin: | | | |
| Location: | | | |
| Scout Deta: | | | |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 26 | SE | 0.68 | 3,594.11 | 128.48 | OGW |

| | | | |
|---|---|---|---|
| API No: | 17081205460000 | LW Rec Sta Desc: | |
| Well No: | 012 | LUW Code: | |
| Well Serial: | 187031 | LUW Type C: | |
| Well Class: | | LUW Name: | |
| Well Name: | UGR RA SUK;J W COATS | Injection: | 0.0 |
| Well Sta 1: | 08/18/1983 | Injection1: | 0 |
| Well Statu: | 29 | Injection2: | |
| Well Stat1: | | Inspecti 1: | 0.0 |
| Well Stat2: | | Inspection: | |
| Orgop Line: | 1 | Inspection1: | |
| Lease No: | | Inspection2: | |
| FID: | | Orphan S 1: | |
| Field ID: | 7644 | Orphan Sta: | |
| Field Name: | REDOAK LAKE | Orphan St1: | |
| Permit Date: | 07/29/1983 | Orphan St2: | |
| Spud Date: | 08/09/1983 | Orphaned F: | |
| Orig Completn Date: | | Operator Type: | 01 |
| Last Completn Date: | | Organization: | 6182 |
| Last Test Date: | | Parish Code: | 41 |
| Effective Date: | 08/01/1983 | Parish Name: | RED RIVER |
| Product Type: | 00 | District Code: | |

# Wells and Additional Sources Detail Report

| | | | |
|---|---|---|---|
| Classification: | | Township: | 11N |
| Mud Density: | 0.0 | Section: | 008 |
| Meas Total Depth: | 4460 | Section PLSS: | 008 |
| Directional Well: | | Meridian: | W |
| USDW Value: | 0 | Well Range: | 09W |
| Area USDW: | 0 | State Inte: | No |
| Max SIP: | 0 | State Zone: | NORTH |
| SIP Assign: | | Surface 1: | 1742720.0 |
| Unit Well: | No | Surface 2: | 466490.0 |
| Mineral In: | No | Surface 3: | 3534562.10385584 |
| Exempt 29E: | No | Surface UT: | 468845.360011873 |
| Log Review: | | Surface Lo: | -93.329649291 |
| Coastal Pe: | | Surface LA: | 31.946587232 |
| Scout Well: | | Surface L2: | |
| Scout Repo: | | Surface L3: | |
| Scout Meas: | 0.0 | Surface U1: | |
| Scout True: | 0.0 | Surface U2: | |
| Upper Perf: | | Surface Co: | 01 |
| Lower Perf: | | Surface Zo: | North |
| LW Rec Sta: | | GIS Upd Date: | |
| Hyperlink: | http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=187031 | | |
| Doc Access: | http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=187031 | | |
| Comments: | | | |
| Comments on USDW Calculation: | | | |
| Legend Description: | DRY AND PLUGGED NO PRODUCT SPECIFIED | | |
| Legend: | 2900 | | |
| Formations: | | | |
| Reservoirs: | | | |
| Sands: | | | |
| Source of MASIO Determin: | | | |
| Location: | | | |
| Scout Deta: | | | |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 27 | SE | 0.71 | 3,730.78 | 128.61 | OGW |

| | | | |
|---|---|---|---|
| API No: | 17081006670000 | LW Rec Sta Desc: | |
| Well No: | 002 | LUW Code: | |
| Well Serial: | 105659 | LUW Type C: | |
| Well Class: | | LUW Name: | |
| Well Name: | J W COATS | Injection: | 0.0 |
| Well Sta 1: | 06/02/1995 | Injection1: | 0 |
| Well Statu: | 30 | Injection2: | |
| Well Stat1: | | Inspecti 1: | 0.0 |
| Well Stat2: | | Inspection: | |
| Orgop Line: | 1 | Inspection1: | |

# Wells and Additional Sources Detail Report

| | | | |
|---|---|---|---|
| Lease No: | | Inspection2: | |
| FID: | | Orphan S 1: | |
| Field ID: | 5252 | Orphan Sta: | |
| Field Name: | LAKE END | Orphan St1: | |
| Permit Date: | 10/14/1964 | Orphan St2: | |
| Spud Date: | 10/21/1964 | Orphaned F: | |
| Orig Completn Date: | 11/16/1964 | Operator Type: | 01 |
| Last Completn Date: | | Organization: | 1651 |
| Last Test Date: | | Parish Code: | 41 |
| Effective Date: | 06/01/1995 | Parish Name: | RED RIVER |
| Product Type: | 10 | District Code: | |
| Classification: | | Township: | 11N |
| Mud Density: | 0.0 | Section: | 008 |
| Meas Total Depth: | 1291 | Section PLSS: | 008 |
| Directional Well: | | Meridian: | W |
| USDW Value: | 380 | Well Range: | 09W |
| Area USDW: | 0 | State Inte: | No |
| Max SIP: | 0 | State Zone: | NORTH |
| SIP Assign: | | Surface 1: | 1742897.0 |
| Unit Well: | No | Surface 2: | 466481.0 |
| Mineral In: | No | Surface 3: | 3534559.6095432 |
| Exempt 29E: | No | Surface UT: | 468899.305884054 |
| Log Review: | | Surface Lo: | -93.329078425 |
| Coastal Pe: | | Surface LA: | 31.94656621 |
| Scout Well: | | Surface L2: | |
| Scout Repo: | | Surface L3: | |
| Scout Meas: | 0.0 | Surface U1: | |
| Scout True: | 0.0 | Surface U2: | |
| Upper Perf: | 1210 | Surface Co: | 01 |
| Lower Perf: | 1216 | Surface Zo: | North |
| LW Rec Sta: | | GIS Upd Date: | |
| Hyperlink: | http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=105659 | | |
| Doc Access: | http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=105659 | | |
| Comments: | USDW 380 NOTES:<br>USDW 380 NOTES: | | |
| Comments on USDW Calculation: | | | |
| Legend Description: | PLUGGED AND ABANDONED OIL | | |
| Legend: | 3010 | | |
| Formations: | | | |
| Reservoirs: | | | |
| Sands: | NAC | | |
| Source of MASIO Determin: | | | |
| Location: | | | |
| Scout Deta: | | | |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 28 | SE | 0.70 | 3,712.99 | 127.43 | OGW |

# Wells and Additional Sources Detail Report

| | | | |
|---|---|---|---|
| API No: | 17081204990000 | LW Rec Sta Desc: | |
| Well No: | 011 | LUW Code: | |
| Well Serial: | 181067 | LUW Type C: | |
| Well Class: | | LUW Name: | |
| Well Name: | ROD RA SUK;J W COATS | Injection: | 0.0 |
| Well Sta 1: | 05/30/1982 | Injection1: | 0 |
| Well Statu: | 29 | Injection2: | |
| Well Stat1: | | Inspecti 1: | 0.0 |
| Well Stat2: | | Inspection: | |
| Orgop Line: | 1 | Inspection1: | |
| Lease No: | | Inspection2: | |
| FID: | | Orphan S 1: | |
| Field ID: | 7644 | Orphan Sta: | |
| Field Name: | REDOAK LAKE | Orphan St1: | |
| Permit Date: | 05/11/1982 | Orphan St2: | |
| Spud Date: | 05/17/1982 | Orphaned F: | |
| Orig Completn Date: | | Operator Type: | 01 |
| Last Completn Date: | | Organization: | 6182 |
| Last Test Date: | | Parish Code: | 41 |
| Effective Date: | 05/01/1982 | Parish Name: | RED RIVER |
| Product Type: | 00 | District Code: | |
| Classification: | | Township: | 11N |
| Mud Density: | 0.0 | Section: | 008 |
| Meas Total Depth: | 5270 | Section PLSS: | 008 |
| Directional Well: | | Meridian: | W |
| USDW Value: | 0 | Well Range: | 09W |
| Area USDW: | 0 | State Inte: | No |
| Max SIP: | 0 | State Zone: | NORTH |
| SIP Assign: | | Surface 1: | 1742700.0 |
| Unit Well: | No | Surface 2: | 466300.0 |
| Mineral In: | No | Surface 3: | 3534504.18085058 |
| Exempt 29E: | No | Surface UT: | 468839.532705383 |
| Log Review: | | Surface Lo: | -93.329709082 |
| Coastal Pe: | | Surface LA: | 31.946064506 |
| Scout Well: | | Surface L2: | |
| Scout Repo: | | Surface L3: | |
| Scout Meas: | 0.0 | Surface U1: | |
| Scout True: | 0.0 | Surface U2: | |
| Upper Perf: | | Surface Co: | 01 |
| Lower Perf: | | Surface Zo: | North |
| LW Rec Sta: | | GIS Upd Date: | |
| Hyperlink: | http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=181067 | | |
| Doc Access: | http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=181067 | | |
| Comments: | | | |
| Comments on USDW Calculation: | | | |

# Wells and Additional Sources Detail Report

| | |
|---|---|
| Legend Description: | DRY AND PLUGGED NO PRODUCT SPECIFIED |
| Legend: | 2900 |
| Formations: | |
| Reservoirs: | |
| Sands: | |
| Source of MASIO Determin: | |
| Location: | |
| Scout Deta: | |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 29 | ESE | 0.84 | 4,446.98 | 131.94 | OGW |

| | | | |
|---|---|---|---|
| API No: | 17081203580000 | LW Rec Sta Desc: | |
| Well No: | 008 | LUW Code: | |
| Well Serial: | 163587 | LUW Type C: | |
| Well Class: | | LUW Name: | |
| Well Name: | J W COATS | Injection: | 0.0 |
| Well Sta 1: | 05/14/2003 | Injection1: | 0 |
| Well Statu: | 30 | Injection2: | |
| Well Stat1: | | Inspecti 1: | 0.0 |
| Well Stat2: | | Inspection: | |
| Orgop Line: | 1 | Inspection1: | |
| Lease No: | | Inspection2: | |
| FID: | | Orphan S 1: | 05/20/2000 |
| Field ID: | 7644 | Orphan Sta: | 23 |
| Field Name: | REDOAK LAKE | Orphan St1: | |
| Permit Date: | 05/17/1979 | Orphan St2: | |
| Spud Date: | 05/17/1979 | Orphaned F: | Yes |
| Orig Completn Date: | 06/26/1979 | Operator Type: | 01 |
| Last Completn Date: | | Organization: | B073 |
| Last Test Date: | | Parish Code: | 41 |
| Effective Date: | 05/14/2003 | Parish Name: | RED RIVER |
| Product Type: | 00 | District Code: | |
| Classification: | | Township: | 11N |
| Mud Density: | 0.0 | Section: | 008 |
| Meas Total Depth: | 1308 | Section PLSS: | 008 |
| Directional Well: | | Meridian: | W |
| USDW Value: | 0 | Well Range: | 09W |
| Area USDW: | 0 | State Inte: | No |
| Max SIP: | 0 | State Zone: | NORTH |
| SIP Assign: | | Surface 1: | 1744479.0 |
| Unit Well: | No | Surface 2: | 468150.0 |
| Mineral In: | No | Surface 3: | 3535070.38838666 |
| Exempt 29E: | No | Surface UT: | 469379.009157077 |
| Log Review: | | Surface Lo: | -93.324018996 |
| Coastal Pe: | | Surface LA: | 31.951187376 |

# Wells and Additional Sources Detail Report

| | | | |
|---|---|---|---|
| Scout Well: | | Surface L2: | |
| Scout Repo: | | Surface L3: | |
| Scout Meas: | 0.0 | Surface U1: | |
| Scout True: | 0.0 | Surface U2: | |
| Upper Perf: | 1200 | Surface Co: | 01 |
| Lower Perf: | 1220 | Surface Zo: | North |
| LW Rec Sta: | | GIS Upd Date: | |
| Hyperlink: | http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=163587 | | |
| Doc Access: | http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=163587 | | |
| Comments: | | | |
| Comments on USDW Calculation: | | | |
| Legend Description: | PLUGGED AND ABANDONED NO PRODUCT SPECIFIED | | |
| Legend: | 3000 | | |
| Formations: | | | |
| Reservoirs: | | | |
| Sands: | NACATOCH | | |
| Source of MASIO Determin: | | | |
| Location: | | | |
| Scout Deta: | | | |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 30 | E | 0.96 | 5,080.94 | 124.06 | OGW |

| | | | |
|---|---|---|---|
| API No: | 17081203200000 | LW Rec Sta Desc: | |
| Well No: | 004 | LUW Code: | |
| Well Serial: | 159117 | LUW Type C: | |
| Well Class: | | LUW Name: | |
| Well Name: | C H SMITH | Injection: | 0.0 |
| Well Sta 1: | 09/01/1994 | Injection1: | 0 |
| Well Statu: | 30 | Injection2: | |
| Well Stat1: | | Inspecti 1: | 0.0 |
| Well Stat2: | | Inspection: | |
| Orgop Line: | 1 | Inspection1: | |
| Lease No: | | Inspection2: | |
| FID: | | Orphan S 1: | |
| Field ID: | 7644 | Orphan Sta: | |
| Field Name: | REDOAK LAKE | Orphan St1: | |
| Permit Date: | 04/24/1978 | Orphan St2: | |
| Spud Date: | 05/09/1978 | Orphaned F: | |
| Orig Completn Date: | 06/14/1978 | Operator Type: | 01 |
| Last Completn Date: | | Organization: | B073 |
| Last Test Date: | | Parish Code: | 41 |
| Effective Date: | 09/01/1994 | Parish Name: | RED RIVER |
| Product Type: | 20 | District Code: | |
| Classification: | | Township: | 11N |
| Mud Density: | 0.0 | Section: | 008 |

# Wells and Additional Sources Detail Report

| | | | |
|---|---|---|---|
| Meas Total Depth: | 1302 | Section PLSS: | 008 |
| Directional Well: | | Meridian: | W |
| USDW Value: | 0 | Well Range: | 09W |
| Area USDW: | 0 | State Inte: | No |
| Max SIP: | 0 | State Zone: | NORTH |
| SIP Assign: | | Surface 1: | 1745199.0 |
| Unit Well: | No | Surface 2: | 471150.0 |
| Mineral In: | No | Surface 3: | 3535985.52831766 |
| Exempt 29E: | No | Surface UT: | 469594.185741832 |
| Log Review: | | Surface Lo: | -93.321770941 |
| Coastal Pe: | | Surface LA: | 31.959449317 |
| Scout Well: | | Surface L2: | |
| Scout Repo: | | Surface L3: | |
| Scout Meas: | 0.0 | Surface U1: | |
| Scout True: | 0.0 | Surface U2: | |
| Upper Perf: | 1192 | Surface Co: | 01 |
| Lower Perf: | 1283 | Surface Zo: | North |
| LW Rec Sta: | | GIS Upd Date: | |
| Hyperlink: | http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=159117 | | |
| Doc Access: | http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=159117 | | |
| Comments: | | | |
| Comments on USDW Calculation: | | | |
| Legend Description: | PLUGGED AND ABANDONED GAS | | |
| Legend: | 3020 | | |
| Formations: | | | |
| Reservoirs: | | | |
| Sands: | NACATOCH | | |
| Source of MASIO Determin: | | | |
| Location: | | | |
| Scout Deta: | | | |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 32 | E | 0.96 | 5,088.12 | 123.69 | OGW |

| | | | |
|---|---|---|---|
| API No: | 17081203210000 | LW Rec Sta Desc: | |
| Well No: | 005 | LUW Code: | |
| Well Serial: | 159118 | LUW Type C: | |
| Well Class: | | LUW Name: | |
| Well Name: | C H SMITH | Injection: | 0.0 |
| Well Sta 1: | 08/23/1994 | Injection1: | 0 |
| Well Statu: | 30 | Injection2: | |
| Well Stat1: | | Inspecti 1: | 0.0 |
| Well Stat2: | | Inspection: | |
| Orgop Line: | 1 | Inspection1: | |
| Lease No: | | Inspection2: | |
| FID: | | Orphan S 1: | |

# Wells and Additional Sources Detail Report

| | | | |
|---|---|---|---|
| Field ID: | 7644 | Orphan Sta: | |
| Field Name: | REDOAK LAKE | Orphan St1: | |
| Permit Date: | 04/24/1978 | Orphan St2: | |
| Spud Date: | 05/17/1978 | Orphaned F: | |
| Orig Completn Date: | 07/11/1978 | Operator Type: | 01 |
| Last Completn Date: | | Organization: | B073 |
| Last Test Date: | | Parish Code: | 41 |
| Effective Date: | 08/01/1994 | Parish Name: | RED RIVER |
| Product Type: | 20 | District Code: | |
| Classification: | | Township: | 11N |
| Mud Density: | 0.0 | Section: | 008 |
| Meas Total Depth: | 1320 | Section PLSS: | 008 |
| Directional Well: | | Meridian: | W |
| USDW Value: | 0 | Well Range: | 09W |
| Area USDW: | 0 | State Inte: | No |
| Max SIP: | 0 | State Zone: | NORTH |
| SIP Assign: | | Surface 1: | 1745199.0 |
| Unit Well: | No | Surface 2: | 469840.0 |
| Mineral In: | No | Surface 3: | 3535586.35787311 |
| Exempt 29E: | No | Surface UT: | 469596.025218611 |
| Log Review: | | Surface Lo: | -93.321738921 |
| Coastal Pe: | | Surface LA: | 31.955848157 |
| Scout Well: | | Surface L2: | |
| Scout Repo: | | Surface L3: | |
| Scout Meas: | 0.0 | Surface U1: | |
| Scout True: | 0.0 | Surface U2: | |
| Upper Perf: | 1170 | Surface Co: | 01 |
| Lower Perf: | 1176 | Surface Zo: | North |
| LW Rec Sta: | | GIS Upd Date: | |
| Hyperlink: | http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=159118 | | |
| Doc Access: | http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=159118 | | |
| Comments: | | | |
| Comments on USDW Calculation: | | | |
| Legend Description: | PLUGGED AND ABANDONED GAS | | |
| Legend: | 3020 | | |
| Formations: | | | |
| Reservoirs: | | | |
| Sands: | NACATOCH | | |
| Source of MASIO Determin: | | | |
| Location: | | | |
| Scout Deta: | | | |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 33 | SE | 0.76 | 3,987.75 | 127.39 | OGW |

| | | | |
|---|---|---|---|
| API No: | 17081006660000 | LW Rec Sta Desc: | |

# Wells and Additional Sources Detail Report

| | | | |
|---|---|---|---|
| Well No: | 001 | LUW Code: | |
| Well Serial: | 102765 | LUW Type C: | |
| Well Class: | | LUW Name: | |
| Well Name: | J. W. COATS | Injection: | 0.0 |
| Well Sta 1: | 01/05/2022 | Injection1: | 0 |
| Well Statu: | 30 | Injection2: | |
| Well Stat1: | | Inspecti 1: | 0.0 |
| Well Stat2: | | Inspection: | |
| Orgop Line: | 1 | Inspection1: | |
| Lease No: | | Inspection2: | |
| FID: | | Orphan S 1: | |
| Field ID: | 5252 | Orphan Sta: | |
| Field Name: | LAKE END | Orphan St1: | |
| Permit Date: | 05/22/1964 | Orphan St2: | |
| Spud Date: | 06/04/1964 | Orphaned F: | |
| Orig Completn Date: | 06/22/1964 | Operator Type: | 01 |
| Last Completn Date: | | Organization: | 1651 |
| Last Test Date: | | Parish Code: | 41 |
| Effective Date: | 01/05/2022 | Parish Name: | RED RIVER |
| Product Type: | 10 | District Code: | |
| Classification: | | Township: | 11N |
| Mud Density: | 0.0 | Section: | 008 |
| Meas Total Depth: | 1299 | Section PLSS: | 008 |
| Directional Well: | | Meridian: | W |
| USDW Value: | 0 | Well Range: | 09W |
| Area USDW: | 0 | State Inte: | No |
| Max SIP: | 0 | State Zone: | NORTH |
| SIP Assign: | | Surface 1: | 1742831.0 |
| Unit Well: | No | Surface 2: | 466045.0 |
| Mineral In: | No | Surface 3: | 3534426.66331113 |
| Exempt 29E: | No | Surface UT: | 468879.807529377 |
| Log Review: | | Surface Lo: | -93.329280454 |
| Coastal Pe: | | Surface LA: | 31.945366268 |
| Scout Well: | 30 | Surface L2: | |
| Scout Repo: | 06/16/2022 | Surface L3: | |
| Scout Meas: | 0.0 | Surface U1: | |
| Scout True: | 0.0 | Surface U2: | |
| Upper Perf: | 1200 | Surface Co: | 01 |
| Lower Perf: | 1215 | Surface Zo: | North |
| LW Rec Sta: | | GIS Upd Date: | |
| Hyperlink: | http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=102765 | | |
| Doc Access: | http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=102765 | | |
| Comments: | | | |
| Comments on USDW Calculation: | | | |
| Legend Description: | PLUGGED AND ABANDONED OIL | | |
| Legend: | 3010 | | |
| Formations: | | | |

# Wells and Additional Sources Detail Report

Reservoirs:
Sands:
Source of MASIO Determin:
Location:
Scout Deta: P&A 01/05/2022

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 34 | ESE | 0.95 | 4,995.68 | 131.04 | OGW |

| | | | |
|---|---|---|---|
| API No: | 17081203090000 | LW Rec Sta Desc: | |
| Well No: | 003 | LUW Code: | |
| Well Serial: | 158801 | LUW Type C: | |
| Well Class: | | LUW Name: | |
| Well Name: | J W COATS | Injection: | 0.0 |
| Well Sta 1: | 08/23/1994 | Injection1: | 0 |
| Well Statu: | 30 | Injection2: | |
| Well Stat1: | | Inspecti 1: | 0.0 |
| Well Stat2: | | Inspection: | |
| Orgop Line: | 1 | Inspection1: | |
| Lease No: | | Inspection2: | |
| FID: | | Orphan S 1: | |
| Field ID: | 7644 | Orphan Sta: | |
| Field Name: | REDOAK LAKE | Orphan St1: | |
| Permit Date: | 03/23/1978 | Orphan St2: | |
| Spud Date: | 03/24/1978 | Orphaned F: | |
| Orig Completn Date: | 04/07/1978 | Operator Type: | 01 |
| Last Completn Date: | | Organization: | B073 |
| Last Test Date: | | Parish Code: | 41 |
| Effective Date: | 08/01/1994 | Parish Name: | RED RIVER |
| Product Type: | 20 | District Code: | |
| Classification: | | Township: | 11N |
| Mud Density: | 0.0 | Section: | 008 |
| Meas Total Depth: | 3850 | Section PLSS: | 008 |
| Directional Well: | | Meridian: | W |
| USDW Value: | 0 | Well Range: | 09W |
| Area USDW: | 0 | State Inte: | No |
| Max SIP: | 0 | State Zone: | NORTH |
| SIP Assign: | | Surface 1: | 1745100.0 |
| Unit Well: | No | Surface 2: | 468830.0 |
| Mineral In: | No | Surface 3: | 3535278.46174315 |
| Exempt 29E: | No | Surface UT: | 469567.277496539 |
| Log Review: | | Surface Lo: | -93.322033431 |
| Coastal Pe: | | Surface LA: | 31.953069628 |
| Scout Well: | | Surface L2: | |
| Scout Repo: | | Surface L3: | |
| Scout Meas: | 0.0 | Surface U1: | |

| | | | |
|---|---|---|---|
| Scout True: | 0.0 | Surface U2: | |
| Upper Perf: | 1193 | Surface Co: | 01 |
| Lower Perf: | 1200 | Surface Zo: | North |
| LW Rec Sta: | | GIS Upd Date: | |
| Hyperlink: | http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=158801 | | |
| Doc Access: | http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=158801 | | |
| Comments: | | | |
| Comments on USDW Calculation: | | | |
| Legend Description: | PLUGGED AND ABANDONED GAS | | |
| Legend: | 3020 | | |
| Formations: | | | |
| Reservoirs: | | | |
| Sands: | NACATOCH | | |
| Source of MASIO Determin: | | | |
| Location: | | | |
| Scout Deta: | | | |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 35 | SSE | 0.78 | 4,117.09 | 127.67 | OGW |

| | | | |
|---|---|---|---|
| API No: | 17081006770000 | LW Rec Sta Desc: | Active |
| Well No: | 001 | LUW Code: | 017662 |
| Well Serial: | 100828 | LUW Type C: | 1 |
| Well Class: | | LUW Name: | J W COATS |
| Well Name: | J W COATS | Injection: | 0.0 |
| Well Sta 1: | 02/14/1964 | Injection1: | 0 |
| Well Statu: | 10 | Injection2: | |
| Well Stat1: | | Inspecti 1: | 0.0 |
| Well Stat2: | | Inspection: | |
| Orgop Line: | 1 | Inspection1: | |
| Lease No: | | Inspection2: | |
| FID: | | Orphan S 1: | |
| Field ID: | 5252 | Orphan Sta: | |
| Field Name: | LAKE END | Orphan St1: | |
| Permit Date: | 01/17/1964 | Orphan St2: | |
| Spud Date: | 01/23/1964 | Orphaned F: | |
| Orig Completn Date: | 02/21/1964 | Operator Type: | 01 |
| Last Completn Date: | | Organization: | B348 |
| Last Test Date: | | Parish Code: | 41 |
| Effective Date: | 07/01/2011 | Parish Name: | RED RIVER |
| Product Type: | 10 | District Code: | |
| Classification: | | Township: | 11N |
| Mud Density: | 0.0 | Section: | 018 |
| Meas Total Depth: | 1320 | Section PLSS: | 018 |
| Directional Well: | | Meridian: | W |
| USDW Value: | 0 | Well Range: | 09W |

# Wells and Additional Sources Detail Report

| | | | |
|---|---|---|---|
| Area USDW: | 0 | State Inte: | No |
| Max SIP: | 0 | State Zone: | NORTH |
| SIP Assign: | | Surface 1: | 1742455.0 |
| Unit Well: | No | Surface 2: | 465575.0 |
| Mineral In: | No | Surface 3: | 3534282.92242129 |
| Exempt 29E: | No | Surface UT: | 468765.89760017 |
| Log Review: | | Surface Lo: | -93.330481044 |
| Coastal Pe: | | Surface LA: | 31.944066344 |
| Scout Well: | | Surface L2: | |
| Scout Repo: | | Surface L3: | |
| Scout Meas: | 0.0 | Surface U1: | |
| Scout True: | 0.0 | Surface U2: | |
| Upper Perf: | 1218 | Surface Co: | 01 |
| Lower Perf: | 1224 | Surface Zo: | North |
| LW Rec Sta: | A | GIS Upd Date: | |
| Hyperlink: | http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=100828 | | |
| Doc Access: | http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=100828 | | |
| Comments: | | | |
| Comments on USDW Calculation: | | | |
| Legend Description: | ACTIVE - PRODUCING OIL | | |
| Legend: | 1010 | | |
| Formations: | | | |
| Reservoirs: | | | |
| Sands: | | | |
| Source of MASIO Determin: | | | |
| Location: | | | |
| Scout Deta: | | | |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 36 | SSE | 0.79 | 4,165.17 | 126.91 | OGW |

| | | | |
|---|---|---|---|
| API No: | 17081006760000 | LW Rec Sta Desc: | Active |
| Well No: | 001 | LUW Code: | 006050 |
| Well Serial: | 70184 | LUW Type C: | 1 |
| Well Class: | | LUW Name: | L C COATS |
| Well Name: | L C COATS | Injection: | 0.0 |
| Well Sta 1: | 05/21/1958 | Injection1: | 0 |
| Well Statu: | 10 | Injection2: | |
| Well Stat1: | | Inspecti 1: | 0.0 |
| Well Stat2: | | Inspection: | |
| Orgop Line: | 1 | Inspection1: | |
| Lease No: | | Inspection2: | |
| FID: | | Orphan S 1: | |
| Field ID: | 5252 | Orphan Sta: | |
| Field Name: | LAKE END | Orphan St1: | |
| Permit Date: | 04/21/1958 | Orphan St2: | |

# Wells and Additional Sources Detail Report

| | | | |
|---|---|---|---|
| Spud Date: | 04/29/1958 | Orphaned F: | |
| Orig Completn Date: | 05/20/1958 | Operator Type: | 01 |
| Last Completn Date: | | Organization: | B348 |
| Last Test Date: | | Parish Code: | 41 |
| Effective Date: | 07/01/2011 | Parish Name: | RED RIVER |
| Product Type: | 10 | District Code: | |
| Classification: | | Township: | 11N |
| Mud Density: | 0.0 | Section: | 018 |
| Meas Total Depth: | 1298 | Section PLSS: | 018 |
| Directional Well: | | Meridian: | W |
| USDW Value: | 0 | Well Range: | 09W |
| Area USDW: | 0 | State Inte: | No |
| Max SIP: | 0 | State Zone: | NORTH |
| SIP Assign: | | Surface 1: | 1742143.0 |
| Unit Well: | No | Surface 2: | 465323.0 |
| Mineral In: | No | Surface 3: | 3534205.69809345 |
| Exempt 29E: | No | Surface UT: | 468671.182773291 |
| Log Review: | | Surface Lo: | -93.331480666 |
| Coastal Pe: | | Surface LA: | 31.943367034 |
| Scout Well: | | Surface L2: | |
| Scout Repo: | | Surface L3: | |
| Scout Meas: | 0.0 | Surface U1: | |
| Scout True: | 0.0 | Surface U2: | |
| Upper Perf: | 1200 | Surface Co: | 01 |
| Lower Perf: | 1210 | Surface Zo: | North |
| LW Rec Sta: | A | GIS Upd Date: | |
| Hyperlink: | http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=70184 | | |
| Doc Access: | http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=70184 | | |
| Comments: | | | |
| Comments on USDW Calculation: | | | |
| Legend Description: | ACTIVE - PRODUCING OIL | | |
| Legend: | 1010 | | |
| Formations: | | | |
| Reservoirs: | | | |
| Sands: | | | |
| Source of MASIO Determin: | | | |
| Location: | | | |
| Scout Deta: | | | |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 37 | ESE | 0.91 | 4,822.02 | 125.98 | OGW |

| | | | |
|---|---|---|---|
| API No: | 17081207610000 | LW Rec Sta Desc: | |
| Well No: | 001 | LUW Code: | |
| Well Serial: | 215093 | LUW Type C: | |
| Well Class: | | LUW Name: | |

# Wells and Additional Sources Detail Report

| | | | |
|---|---|---|---|
| Well Name: | J W COATS A | Injection: | 0.0 |
| Well Sta 1: | 05/15/2003 | Injection1: | 0 |
| Well Statu: | 30 | Injection2: | |
| Well Stat1: | | Inspecti 1: | 0.0 |
| Well Stat2: | | Inspection: | |
| Orgop Line: | 1 | Inspection1: | |
| Lease No: | | Inspection2: | |
| FID: | | Orphan S 1: | 05/20/2000 |
| Field ID: | 7644 | Orphan Sta: | 23 |
| Field Name: | REDOAK LAKE | Orphan St1: | |
| Permit Date: | 10/21/1992 | Orphan St2: | |
| Spud Date: | | Orphaned F: | Yes |
| Orig Completn Date: | 11/18/1992 | Operator Type: | 01 |
| Last Completn Date: | 11/18/1992 | Organization: | B073 |
| Last Test Date: | | Parish Code: | 41 |
| Effective Date: | 05/15/2003 | Parish Name: | RED RIVER |
| Product Type: | 00 | District Code: | |
| Classification: | | Township: | 11N |
| Mud Density: | 0.0 | Section: | 008 |
| Meas Total Depth: | 1275 | Section PLSS: | 008 |
| Directional Well: | | Meridian: | W |
| USDW Value: | 0 | Well Range: | 09W |
| Area USDW: | 0 | State Inte: | No |
| Max SIP: | 0 | State Zone: | NORTH |
| SIP Assign: | | Surface 1: | 1744696.0 |
| Unit Well: | No | Surface 2: | 467479.0 |
| Mineral In: | No | Surface 3: | 3534866.23190554 |
| Exempt 29E: | No | Surface UT: | 469446.0729867 |
| Log Review: | | Surface Lo: | -93.323302926 |
| Coastal Pe: | | Surface LA: | 31.949347338 |
| Scout Well: | 10 | Surface L2: | |
| Scout Repo: | 11/19/1993 | Surface L3: | |
| Scout Meas: | 1275.0 | Surface U1: | |
| Scout True: | 0.0 | Surface U2: | |
| Upper Perf: | 1219 | Surface Co: | 01 |
| Lower Perf: | 1225 | Surface Zo: | North |
| LW Rec Sta: | | GIS Upd Date: | |
| Hyperlink: | http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=215093 | | |
| Doc Access: | http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=215093 | | |
| Comments: | | | |
| Comments on USDW Calculation: | | | |
| Legend Description: | PLUGGED AND ABANDONED NO PRODUCT SPECIFIED | | |
| Legend: | 3000 | | |
| Formations: | | | |
| Reservoirs: | | | |
| Sands: | NACATOCH SD | | |
| Source of MASIO | | | |

# Wells and Additional Sources Detail Report

Determin:
Location:
Scout Deta: COMPLETED 11-18-92; GAS, NACATOCH, 50 MCFD, 8/64" CHOKE, 1 BWPD, 110 TP, 550 CP, 1219-1225 PERFS

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 38 | SE | 0.90 | 4,762.97 | 128.05 | OGW |

| | | | |
|---|---|---|---|
| API No: | 17081203590000 | LW Rec Sta Desc: | |
| Well No: | 009 | LUW Code: | |
| Well Serial: | 163588 | LUW Type C: | |
| Well Class: | | LUW Name: | |
| Well Name: | J W COATS | Injection: | 0.0 |
| Well Sta 1: | 10/27/2003 | Injection1: | 0 |
| Well Statu: | 30 | Injection2: | |
| Well Stat1: | | Inspecti 1: | 0.0 |
| Well Stat2: | | Inspection: | |
| Orgop Line: | 1 | Inspection1: | |
| Lease No: | | Inspection2: | |
| FID: | | Orphan S 1: | 05/20/2000 |
| Field ID: | 7644 | Orphan Sta: | 23 |
| Field Name: | REDOAK LAKE | Orphan St1: | |
| Permit Date: | 05/17/1979 | Orphan St2: | |
| Spud Date: | 05/19/1979 | Orphaned F: | Yes |
| Orig Completn Date: | 06/21/1979 | Operator Type: | 01 |
| Last Completn Date: | | Organization: | B073 |
| Last Test Date: | | Parish Code: | 41 |
| Effective Date: | 10/27/2003 | Parish Name: | RED RIVER |
| Product Type: | 00 | District Code: | |
| Classification: | | Township: | 11N |
| Mud Density: | 0.0 | Section: | 008 |
| Meas Total Depth: | 1300 | Section PLSS: | 008 |
| Directional Well: | | Meridian: | W |
| USDW Value: | 0 | Well Range: | 09W |
| Area USDW: | 0 | State Inte: | No |
| Max SIP: | 0 | State Zone: | NORTH |
| SIP Assign: | | Surface 1: | 1744439.0 |
| Unit Well: | No | Surface 2: | 466979.0 |
| Mineral In: | No | Surface 3: | 3534713.516542 |
| Exempt 29E: | No | Surface UT: | 469368.465387291 |
| Log Review: | | Surface Lo: | -93.324119258 |
| Coastal Pe: | | Surface LA: | 31.947967486 |
| Scout Well: | | Surface L2: | |
| Scout Repo: | | Surface L3: | |
| Scout Meas: | 0.0 | Surface U1: | |
| Scout True: | 0.0 | Surface U2: | |
| Upper Perf: | 1190 | Surface Co: | 01 |

| | | | |
|---|---|---|---|
| Lower Perf: | 1210 | Surface Zo: | North |
| LW Rec Sta: | | GIS Upd Date: | |
| Hyperlink: | http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=163588 | | |
| Doc Access: | http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=163588 | | |
| Comments: | | | |
| Comments on USDW Calculation: | | | |
| Legend Description: | PLUGGED AND ABANDONED NO PRODUCT SPECIFIED | | |
| Legend: | 3000 | | |
| Formations: | | | |
| Reservoirs: | | | |
| Sands: | NACATOCH | | |
| Source of MASIO Determin: | | | |
| Location: | | | |
| Scout Deta: | | | |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 39 | ESE | 0.99 | 5,213.38 | 135.42 | OGW |

| | | | |
|---|---|---|---|
| API No: | 17081203120000 | LW Rec Sta Desc: | |
| Well No: | 004 | LUW Code: | |
| Well Serial: | 158914 | LUW Type C: | |
| Well Class: | | LUW Name: | |
| Well Name: | J W COATS | Injection: | 0.0 |
| Well Sta 1: | 08/29/1994 | Injection1: | 0 |
| Well Statu: | 30 | Injection2: | |
| Well Stat1: | | Inspecti 1: | 0.0 |
| Well Stat2: | | Inspection: | |
| Orgop Line: | 1 | Inspection1: | |
| Lease No: | | Inspection2: | |
| FID: | | Orphan S 1: | |
| Field ID: | 7644 | Orphan Sta: | |
| Field Name: | REDOAK LAKE | Orphan St1: | |
| Permit Date: | 04/04/1978 | Orphan St2: | |
| Spud Date: | 04/05/1978 | Orphaned F: | |
| Orig Completn Date: | 04/26/1978 | Operator Type: | 01 |
| Last Completn Date: | | Organization: | B073 |
| Last Test Date: | | Parish Code: | 41 |
| Effective Date: | 08/01/1994 | Parish Name: | RED RIVER |
| Product Type: | 20 | District Code: | |
| Classification: | | Township: | 11N |
| Mud Density: | 0.0 | Section: | 008 |
| Meas Total Depth: | 1300 | Section PLSS: | 008 |
| Directional Well: | | Meridian: | W |
| USDW Value: | 0 | Well Range: | 09W |
| Area USDW: | 0 | State Inte: | No |
| Max SIP: | 0 | State Zone: | NORTH |

# Wells and Additional Sources Detail Report

| | | | |
|---|---|---|---|
| SIP Assign: | | Surface 1: | 1745100.0 |
| Unit Well: | No | Surface 2: | 467460.0 |
| Mineral In: | No | Surface 3: | 3534861.00864407 |
| Exempt 29E: | No | Surface UT: | 469569.201447408 |
| Log Review: | | Surface Lo: | -93.321999935 |
| Coastal Pe: | | Surface LA: | 31.949303525 |
| Scout Well: | | Surface L2: | |
| Scout Repo: | | Surface L3: | |
| Scout Meas: | 0.0 | Surface U1: | |
| Scout True: | 0.0 | Surface U2: | |
| Upper Perf: | 1160 | Surface Co: | 01 |
| Lower Perf: | 1188 | Surface Zo: | North |
| LW Rec Sta: | | GIS Upd Date: | |
| Hyperlink: | http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=158914 | | |
| Doc Access: | http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=158914 | | |
| Comments: | | | |
| Comments on USDW Calculation: | | | |
| Legend Description: | PLUGGED AND ABANDONED GAS | | |
| Legend: | 3020 | | |
| Formations: | | | |
| Reservoirs: | | | |
| Sands: | NACATOCH | | |
| Source of MASIO Determin: | | | |
| Location: | | | |
| Scout Deta: | | | |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 40 | SE | 0.94 | 4,973.95 | 126.59 | OGW |

| | | | |
|---|---|---|---|
| API No: | 17081205810000 | LW Rec Sta Desc: | |
| Well No: | 001 | LUW Code: | |
| Well Serial: | 191011 | LUW Type C: | |
| Well Class: | | LUW Name: | |
| Well Name: | D I DUPREE | Injection: | 0.0 |
| Well Sta 1: | 06/02/1995 | Injection1: | 0 |
| Well Statu: | 30 | Injection2: | |
| Well Stat1: | | Inspecti 1: | 0.0 |
| Well Stat2: | | Inspection: | |
| Orgop Line: | 1 | Inspection1: | |
| Lease No: | | Inspection2: | |
| FID: | | Orphan S 1: | |
| Field ID: | 7644 | Orphan Sta: | |
| Field Name: | REDOAK LAKE | Orphan St1: | |
| Permit Date: | 03/09/1984 | Orphan St2: | |
| Spud Date: | 03/16/1984 | Orphaned F: | |
| Orig Completn Date: | 09/17/1984 | Operator Type: | 01 |

# Wells and Additional Sources Detail Report

| | | | |
|---|---|---|---|
| Last Completn Date: | 09/17/1984 | Organization: | 1218 |
| Last Test Date: | | Parish Code: | 41 |
| Effective Date: | 06/01/1995 | Parish Name: | RED RIVER |
| Product Type: | 10 | District Code: | |
| Classification: | | Township: | 11N |
| Mud Density: | 0.0 | Section: | 008 |
| Meas Total Depth: | 1385 | Section PLSS: | 008 |
| Directional Well: | | Meridian: | W |
| USDW Value: | 0 | Well Range: | 09W |
| Area USDW: | 0 | State Inte: | No |
| Max SIP: | 0 | State Zone: | NORTH |
| SIP Assign: | | Surface 1: | 1743500.0 |
| Unit Well: | No | Surface 2: | 465320.0 |
| Mineral In: | No | Surface 3: | 3534206.68596875 |
| Exempt 29E: | No | Surface UT: | 469084.675113972 |
| Log Review: | | Surface Lo: | -93.327105807 |
| Coastal Pe: | | Surface LA: | 31.94338729 |
| Scout Well: | | Surface L2: | |
| Scout Repo: | | Surface L3: | |
| Scout Meas: | 0.0 | Surface U1: | |
| Scout True: | 0.0 | Surface U2: | |
| Upper Perf: | 1220 | Surface Co: | 01 |
| Lower Perf: | 1224 | Surface Zo: | North |
| LW Rec Sta: | | GIS Upd Date: | |
| Hyperlink: | http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=191011 | | |
| Doc Access: | http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=191011 | | |
| Comments: | | | |
| Comments on USDW Calculation: | | | |
| Legend Description: | PLUGGED AND ABANDONED OIL | | |
| Legend: | 3010 | | |
| Formations: | | | |
| Reservoirs: | | | |
| Sands: | NACATOCH | | |
| Source of MASIO Determin: | | | |
| Location: | | | |
| Scout Deta: | | | |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 41 | SSE | 0.92 | 4,883.83 | 126.34 | OGW |

| | | | |
|---|---|---|---|
| API No: | 17081006750000 | LW Rec Sta Desc: | |
| Well No: | 001 | LUW Code: | |
| Well Serial: | 82525 | LUW Type C: | |
| Well Class: | | LUW Name: | |
| Well Name: | C R KNOTTS | Injection: | 0.0 |
| Well Sta 1: | 12/09/1960 | Injection1: | 0 |

# Wells and Additional Sources Detail Report

| | | | |
|---|---|---|---|
| Well Statu: | 29 | Injection2: | |
| Well Stat1: | | Inspecti 1: | 0.0 |
| Well Stat2: | | Inspection: | |
| Orgop Line: | 1 | Inspection1: | |
| Lease No: | | Inspection2: | |
| FID: | | Orphan S 1: | |
| Field ID: | 5252 | Orphan Sta: | |
| Field Name: | LAKE END | Orphan St1: | |
| Permit Date: | 12/08/1960 | Orphan St2: | |
| Spud Date: | 12/09/1961 | Orphaned F: | |
| Orig Completn Date: | 12/09/1960 | Operator Type: | 01 |
| Last Completn Date: | | Organization: | 9999 |
| Last Test Date: | | Parish Code: | 41 |
| Effective Date: | 12/01/1976 | Parish Name: | RED RIVER |
| Product Type: | 00 | District Code: | |
| Classification: | | Township: | 11N |
| Mud Density: | 0.0 | Section: | 018 |
| Meas Total Depth: | 1284 | Section PLSS: | 018 |
| Directional Well: | | Meridian: | W |
| USDW Value: | 0 | Well Range: | 09W |
| Area USDW: | 0 | State Inte: | No |
| Max SIP: | 0 | State Zone: | NORTH |
| SIP Assign: | | Surface 1: | 1742230.0 |
| Unit Well: | No | Surface 2: | 464558.0 |
| Mineral In: | No | Surface 3: | 3533972.71656714 |
| Exempt 29E: | No | Surface UT: | 468698.766808372 |
| Log Review: | | Surface Lo: | -93.331181279 |
| Coastal Pe: | | Surface LA: | 31.941265895 |
| Scout Well: | | Surface L2: | |
| Scout Repo: | | Surface L3: | |
| Scout Meas: | 0.0 | Surface U1: | |
| Scout True: | 0.0 | Surface U2: | |
| Upper Perf: | | Surface Co: | 01 |
| Lower Perf: | | Surface Zo: | North |
| LW Rec Sta: | | GIS Upd Date: | |
| Hyperlink: | http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=82525 | | |
| Doc Access: | http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=82525 | | |
| Comments: | | | |
| Comments on USDW Calculation: | | | |
| Legend Description: | DRY AND PLUGGED NO PRODUCT SPECIFIED | | |
| Legend: | 2900 | | |
| Formations: | | | |
| Reservoirs: | | | |
| Sands: | | | |
| Source of MASIO Determin: | | | |
| Location: | | | |

# Wells and Additional Sources Detail Report

Scout Deta:

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 42 | SSE | 0.93 | 4,912.46 | 126.44 | OGW |

| | | | |
|---|---|---|---|
| API No: | 17081204020000 | LW Rec Sta Desc: | |
| Well No: | 001 | LUW Code: | |
| Well Serial: | 173158 | LUW Type C: | |
| Well Class: | | LUW Name: | |
| Well Name: | M B DUPREE | Injection: | 0.0 |
| Well Sta 1: | 10/26/1992 | Injection1: | 0 |
| Well Statu: | 29 | Injection2: | |
| Well Stat1: | | Inspecti 1: | 0.0 |
| Well Stat2: | | Inspection: | |
| Orgop Line: | 1 | Inspection1: | |
| Lease No: | | Inspection2: | |
| FID: | | Orphan S 1: | |
| Field ID: | 5252 | Orphan Sta: | |
| Field Name: | LAKE END | Orphan St1: | |
| Permit Date: | 01/06/1981 | Orphan St2: | |
| Spud Date: | | Orphaned F: | |
| Orig Completn Date: | | Operator Type: | 01 |
| Last Completn Date: | | Organization: | 9999 |
| Last Test Date: | | Parish Code: | 41 |
| Effective Date: | 10/01/1992 | Parish Name: | RED RIVER |
| Product Type: | 00 | District Code: | |
| Classification: | | Township: | 11N |
| Mud Density: | 0.0 | Section: | 018 |
| Meas Total Depth: | 3347 | Section PLSS: | 018 |
| Directional Well: | | Meridian: | W |
| USDW Value: | 0 | Well Range: | 09W |
| Area USDW: | 0 | State Inte: | No |
| Max SIP: | 0 | State Zone: | NORTH |
| SIP Assign: | | Surface 1: | 1742026.0 |
| Unit Well: | No | Surface 2: | 464434.0 |
| Mineral In: | No | Surface 3: | 3533934.64653829 |
| Exempt 29E: | No | Surface UT: | 468636.780626583 |
| Log Review: | | Surface Lo: | -93.331835865 |
| Coastal Pe: | | Surface LA: | 31.940920725 |
| Scout Well: | | Surface L2: | |
| Scout Repo: | | Surface L3: | |
| Scout Meas: | 0.0 | Surface U1: | |
| Scout True: | 0.0 | Surface U2: | |
| Upper Perf: | | Surface Co: | 01 |
| Lower Perf: | | Surface Zo: | North |
| LW Rec Sta: | | GIS Upd Date: | |

# Wells and Additional Sources Detail Report

| | |
|---|---|
| Hyperlink: | http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=173158 |
| Doc Access: | http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=173158 |
| Comments: | |
| Comments on USDW Calculation: | |
| Legend Description: | DRY AND PLUGGED NO PRODUCT SPECIFIED |
| Legend: | 2900 |
| Formations: | |
| Reservoirs: | |
| Sands: | |
| Source of MASIO Determin: | |
| Location: | |
| Scout Deta: | |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 43 | SSE | 0.98 | 5,195.46 | 126.36 | OGW |

| | | | |
|---|---|---|---|
| API No: | 17081006740000 | LW Rec Sta Desc: | |
| Well No: | 001 | LUW Code: | |
| Well Serial: | 46570 | LUW Type C: | |
| Well Class: | | LUW Name: | |
| Well Name: | BISHOP & CARR | Injection: | 0.0 |
| Well Sta 1: | 10/15/1952 | Injection1: | 0 |
| Well Statu: | 29 | Injection2: | |
| Well Stat1: | | Inspecti 1: | 0.0 |
| Well Stat2: | | Inspection: | |
| Orgop Line: | 1 | Inspection1: | |
| Lease No: | | Inspection2: | |
| FID: | | Orphan S 1: | |
| Field ID: | 9715 | Orphan Sta: | |
| Field Name: | WILDCAT-NO LA SHREVEPORT DIST | Orphan St1: | |
| Permit Date: | 08/18/1952 | Orphan St2: | |
| Spud Date: | 08/24/1952 | Orphaned F: | |
| Orig Completn Date: | 10/15/1952 | Operator Type: | 01 |
| Last Completn Date: | | Organization: | 9999 |
| Last Test Date: | | Parish Code: | 41 |
| Effective Date: | 12/01/1976 | Parish Name: | RED RIVER |
| Product Type: | 00 | District Code: | |
| Classification: | | Township: | 11N |
| Mud Density: | 0.0 | Section: | 018 |
| Meas Total Depth: | 7340 | Section PLSS: | 018 |
| Directional Well: | | Meridian: | W |
| USDW Value: | 0 | Well Range: | 09W |
| Area USDW: | 0 | State Inte: | No |
| Max SIP: | 0 | State Zone: | NORTH |
| SIP Assign: | | Surface 1: | 1741823.0 |

# Wells and Additional Sources Detail Report

| | | | |
|---|---|---|---|
| Unit Well: | No | Surface 2: | 464052.0 |
| Mineral In: | No | Surface 3: | 3533817.96261739 |
| Exempt 29E: | No | Surface UT: | 468575.46153547 |
| Log Review: | | Surface Lo: | -93.332480835 |
| Coastal Pe: | | Surface LA: | 31.939866336 |
| Scout Well: | | Surface L2: | |
| Scout Repo: | | Surface L3: | |
| Scout Meas: | 0.0 | Surface U1: | |
| Scout True: | 0.0 | Surface U2: | |
| Upper Perf: | | Surface Co: | 01 |
| Lower Perf: | | Surface Zo: | North |
| LW Rec Sta: | | GIS Upd Date: | |
| Hyperlink: | http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=46570 | | |
| Doc Access: | http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=46570 | | |
| Comments: | | | |
| Comments on USDW Calculation: | | | |
| Legend Description: | DRY AND PLUGGED NO PRODUCT SPECIFIED | | |
| Legend: | 2900 | | |
| Formations: | | | |
| Reservoirs: | | | |
| Sands: | | | |
| Source of MASIO Determin: | | | |
| Location: | | | |
| Scout Deta: | | | |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 44 | SSE | 0.99 | 5,241.84 | 126.44 | OGW |

| | | | |
|---|---|---|---|
| API No: | 17081203040000 | LW Rec Sta Desc: | Active |
| Well No: | 009 | LUW Code: | 303462 |
| Well Serial: | 158728 | LUW Type C: | 7 |
| Well Class: | | LUW Name: | M B DUPREE |
| Well Name: | M B DUPREE | Injection: | 0.0 |
| Well Sta 1: | 03/20/2017 | Injection1: | 0 |
| Well Statu: | 23 | Injection2: | |
| Well Stat1: | | Inspecti 1: | 0.0 |
| Well Stat2: | | Inspection: | |
| Orgop Line: | 1 | Inspection1: | |
| Lease No: | | Inspection2: | |
| FID: | | Orphan S 1: | 10/20/2002 |
| Field ID: | 7644 | Orphan Sta: | 23 |
| Field Name: | REDOAK LAKE | Orphan St1: | |
| Permit Date: | 03/15/1978 | Orphan St2: | |
| Spud Date: | 03/20/1978 | Orphaned F: | Yes |
| Orig Completn Date: | 04/10/1978 | Operator Type: | 01 |
| Last Completn Date: | | Organization: | H047 |

# Wells and Additional Sources Detail Report

| | | | |
|---|---|---|---|
| Last Test Date: | 10/25/2016 | Parish Code: | 41 |
| Effective Date: | 03/20/2017 | Parish Name: | RED RIVER |
| Product Type: | 20 | District Code: | |
| Classification: | | Township: | 11N |
| Mud Density: | 0.0 | Section: | 018 |
| Meas Total Depth: | 1350 | Section PLSS: | 018 |
| Directional Well: | | Meridian: | W |
| USDW Value: | 0 | Well Range: | 09W |
| Area USDW: | 0 | State Inte: | No |
| Max SIP: | 0 | State Zone: | NORTH |
| SIP Assign: | | Surface 1: | 1742749.0 |
| Unit Well: | No | Surface 2: | 464429.0 |
| Mineral In: | No | Surface 3: | 3533934.13638174 |
| Exempt 29E: | No | Surface UT: | 468857.091226223 |
| Log Review: | | Surface Lo: | -93.329504949 |
| Coastal Pe: | | Surface LA: | 31.940922191 |
| Scout Well: | | Surface L2: | |
| Scout Repo: | | Surface L3: | |
| Scout Meas: | 0.0 | Surface U1: | |
| Scout True: | 0.0 | Surface U2: | |
| Upper Perf: | 1177 | Surface Co: | 01 |
| Lower Perf: | 1211 | Surface Zo: | North |
| LW Rec Sta: | A | GIS Upd Date: | |
| Hyperlink: | http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=158728 | | |
| Doc Access: | http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=158728 | | |
| Comments: | | | |
| Comments on USDW Calculation: | | | |
| Legend Description: | ACT 404 ORPHAN WELL-ENG GAS | | |
| Legend: | 2320 | | |
| Formations: | | | |
| Reservoirs: | | | |
| Sands: | NACATOCH | | |
| Source of MASIO Determin: | | | |
| Location: | | | |
| Scout Deta: | | | |

## Public Water Supply Wells

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 7 | WNW | 0.16 | 847.26 | 131.68 | PWSW |

| | | | |
|---|---|---|---|
| Section: | 001 | Township: | 11N |
| Range: | 10W | Dnr Owner Id: | |
| Owners Number: | | Owner Name: | HANNA SCHOOL |
| Owner Address: | | Owner Address2: | |
| Owner City: | | Owner State: | |
| Owner Zip code: | | Parish Number: | 081 |

# Wells and Additional Sources Detail Report

| | | | |
|---|---|---|---|
| Parish Name: | RED RIVER | Local Well Number: | 128 |
| Well Use: | P | Water Well Use Description: | Public Supply |
| Well Status: | A | Well Status Description: | Active |
| Drillers Name: | BOSKEY JOHN | Well Depth: | 65 |
| Casing Diameter: | 2 | Date Completed: | 01-May-1955 |
| Water Level: | 15.00 | Date Measured: | 05/01/55 |
| Geological Unit: | 112RRVA | Latitude: | 315742 |
| Longitude: | 932053 | | |

## Water Wells Registration Dataset

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 3 | NW | 0.05 | 288.35 | 131.22 | WATER WELLS |

| | | | |
|---|---|---|---|
| Water Well No: | 472032 | Industrial: | |
| Local Well: | 88 | Industrial 1: | |
| Alt Water Well: | 081-88 | Public Sup: | |
| Well Status: | Destroyed | Public S 1: | |
| Sequence No: | 01 | Replacement: | |
| WWO Seq No: | 0 | Gravel Pac: | No |
| Serial No: | | Ground Evel: | |
| Identification: | 315742093204601 | Diameter O: | |
| Well Use: | Z | Authorized: | |
| Well Subus: | D | Authorized 1: | |
| Well Depth: | 176 | Cemented F: | |
| Geologic Unit: | 124DLHL | Slot Length: | |
| Water Level: | 0.00 | Slot Size: | |
| Date Measure: | | Extension: | |
| Casing Dia: | 5 | Extension 1: | |
| Casing Material: | | Extension 2: | |
| Casing D1: | | Create Date: | |
| Casing D2: | | Create Use: | |
| Casing Len: | | Update Date: | |
| Hole Depth: | 176 | Update Use: | |
| Elevation: | 130 | Refresh Up: | |
| Yield: | | Elec Log: | |
| Drawdown: | | Owners No: | |
| Source of: | | Owner Stat: | |
| Date Complete: | 12/43 | Contact: | |
| Plugged By: | | Section: | 001 |
| Plugged 1: | | Township: | 11N |
| Date Plugg: | | Range: | 10W |
| Date of Ad: | 1997-07-29 | Quad No: | |
| Date Regis: | | State Code: | 22 |
| Screen Dia: | | Parish No: | 081 |
| Screen Int: | | Parish Cod: | 41 |
| Screen Type: | | Parish Name: | RED RIVER |

| | | | |
|---|---|---|---|
| Screen D1: | | Y Coord: | 315742 |
| Screen D2: | | X Coord: | 932046 |
| Mechanic A: | | Longitude: | -93.34611111 |
| Chem Analysis: | | Latitude: | 31.96166667 |
| Bio Analysis: | | | |
| Available: | Driller Log | | |
| Aquifer Name: | DOLET HILLS AQUIFER | | |
| Drill Log: | D | | |
| Drillers Name: | EDINGTON DRLG | | |
| Drillers: | 000 | | |
| Use Desc: | destroyed | | |
| Location City: | | | |
| Location Miles: | 0.0 | | |
| Location Desc: | | | |
| Inspection: | | | |
| Inspector: | | | |
| Inspector 1: | | | |
| PA Remarks: | | | |
| PA Signature: | | | |
| PA Signature 1: | | | |
| PA Details: | | | |
| Remarks: | | | |
| Comments: | PREVIOUSLY LISTED AS 'T & P RAILWAY'. | | |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 3 | NW | 0.05 | 288.35 | 131.22 | WATER WELLS |

| | | | |
|---|---|---|---|
| Water Well No: | 472046 | Industrial: | |
| Local Well: | 102 | Industrial 1: | |
| Alt Water Well: | 081-102 | Public Sup: | |
| Well Status: | Active | Public S 1: | |
| Sequence No: | 02 | Replacement: | |
| WWO Seq No: | 0 | Gravel Pac: | No |
| Serial No: | | Ground Evel: | |
| Identification: | 315742093204602 | Diameter O: | |
| Well Use: | H | Authorized: | |
| Well Subus: | | Authorized 1: | |
| Well Depth: | 208 | Cemented F: | |
| Geologic Unit: | 124DLHL | Slot Length: | |
| Water Level: | 42.50 | Slot Size: | |
| Date Measure: | 12/01/54 | Extension: | |
| Casing Dia: | 4 | Extension 1: | |
| Casing Material: | | Extension 2: | |
| Casing D1: | | Create Date: | |
| Casing D2: | | Create Use: | |
| Casing Len: | | Update Date: | |

# Wells and Additional Sources Detail Report

| | | | |
|---|---|---|---|
| Hole Depth: | 208 | Update Use: | |
| Elevation: | 130 | Refresh Up: | |
| Yield: | | Elec Log: | |
| Drawdown: | | Owners No: | |
| Source of: | Z | Owner Stat: | |
| Date Complete: | 12/54 | Contact: | |
| Plugged By: | | Section: | 001 |
| Plugged 1: | | Township: | 11N |
| Date Plugg: | | Range: | 10W |
| Date of Ad: | 1994-10-13 | Quad No: | |
| Date Regis: | | State Code: | 22 |
| Screen Dia: | | Parish No: | 081 |
| Screen Int: | 95-208 | Parish Cod: | 41 |
| Screen Type: | | Parish Name: | RED RIVER |
| Screen D1: | | Y Coord: | 315742 |
| Screen D2: | | X Coord: | 932046 |
| Mechanic A: | | Longitude: | -93.34611111 |
| Chem Analysis: | Q | Latitude: | 31.96166667 |
| Bio Analysis: | | | |
| Available: | Driller Log, Quality of Water, Water Level | | |
| Aquifer Name: | DOLET HILLS AQUIFER | | |
| Drill Log: | D | | |
| Drillers Name: | COLE T W | | |
| Drillers: | 000 | | |
| Use Desc: | domestic | | |
| Location City: | | | |
| Location Miles: | 0.0 | | |
| Location Desc: | | | |
| Inspection: | | | |
| Inspector: | | | |
| Inspector 1: | | | |
| PA Remarks: | | | |
| PA Signature: | | | |
| PA Signature 1: | | | |
| PA Details: | | | |
| Remarks: | | | |
| Comments: | | | |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 3 | NW | 0.05 | 288.35 | 131.22 | WATER WELLS |

| | | | |
|---|---|---|---|
| Water Well No: | 472015 | Industrial: | |
| Local Well: | 71 | Industrial 1: | |
| Alt Water Well: | 081-71 | Public Sup: | |
| Well Status: | Active | Public S 1: | |
| Sequence No: | 03 | Replacement: | |

# Wells and Additional Sources Detail Report

| | | | |
|---|---|---|---|
| WWO Seq No: | 0 | Gravel Pac: | No |
| Serial No: | | Ground Evel: | |
| Identification: | 315742093204603 | Diameter O: | |
| Well Use: | N | Authorized: | |
| Well Subus: | 99 | Authorized 1: | |
| Well Depth: | 60 | Cemented F: | |
| Geologic Unit: | 112RRVA | Slot Length: | |
| Water Level: | 28.00 | Slot Size: | |
| Date Measure: | 10/03/55 | Extension: | |
| Casing Dia: | 4 | Extension 1: | |
| Casing Material: | | Extension 2: | |
| Casing D1: | | Create Date: | |
| Casing D2: | | Create Use: | |
| Casing Len: | | Update Date: | |
| Hole Depth: | 0 | Update Use: | |
| Elevation: | 133 | Refresh Up: | |
| Yield: | | Elec Log: | |
| Drawdown: | | Owners No: | |
| Source of: | Z | Owner Stat: | |
| Date Complete: | 1948 | Contact: | |
| Plugged By: | | Section: | 001 |
| Plugged 1: | | Township: | 11N |
| Date Plugg: | | Range: | 10W |
| Date of Ad: | 1994-10-13 | Quad No: | |
| Date Regis: | | State Code: | 22 |
| Screen Dia: | 4 | Parish No: | 081 |
| Screen Int: | 44-60 | Parish Cod: | 41 |
| Screen Type: | | Parish Name: | RED RIVER |
| Screen D1: | | Y Coord: | 315742 |
| Screen D2: | | X Coord: | 932046 |
| Mechanic A: | | Longitude: | -93.34611111 |
| Chem Analysis: | | Latitude: | 31.96166667 |
| Bio Analysis: | | | |
| Available: | Water Level | | |
| Aquifer Name: | RED RIVER ALLUVIAL AQUIFER | | |
| Drill Log: | | | |
| Drillers Name: | DUCO JOHN | | |
| Drillers: | 000 | | |
| Use Desc: | industrial | | |
| Location City: | | | |
| Location Miles: | 0.0 | | |
| Location Desc: | | | |
| Inspection: | | | |
| Inspector: | | | |
| Inspector 1: | | | |
| PA Remarks: | | | |
| PA Signature: | | | |

# Wells and Additional Sources Detail Report

PA Signature 1:
PA Details:
Remarks:
Comments:

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 4 | NW | 0.07 | 350.28 | 131.13 | WATER WELLS |

| | | | |
|---|---|---|---|
| Water Well No: | 472156 | Industrial: | |
| Local Well: | 210 | Industrial 1: | |
| Alt Water Well: | 081-210 | Public Sup: | |
| Well Status: | Active | Public S 1: | |
| Sequence No: | 01 | Replacement: | |
| WWO Seq No: | 0 | Gravel Pac: | No |
| Serial No: | | Ground Evel: | |
| Identification: | 315743093204601 | Diameter O: | |
| Well Use: | O | Authorized: | |
| Well Subus: | W | Authorized 1: | |
| Well Depth: | 59 | Cemented F: | |
| Geologic Unit: | 112RRVA | Slot Length: | |
| Water Level: | 28.60 | Slot Size: | |
| Date Measure: | 11/03/71 | Extension: | |
| Casing Dia: | 3 | Extension 1: | |
| Casing Material: | METAL | Extension 2: | |
| Casing D1: | | Create Date: | |
| Casing D2: | | Create Use: | |
| Casing Len: | | Update Date: | |
| Hole Depth: | 0 | Update Use: | |
| Elevation: | 134 | Refresh Up: | |
| Yield: | | Elec Log: | |
| Drawdown: | | Owners No: | |
| Source of: | A | Owner Stat: | |
| Date Complete: | 06/71 | Contact: | |
| Plugged By: | | Section: | 001 |
| Plugged 1: | | Township: | 11N |
| Date Plugg: | | Range: | 10W |
| Date of Ad: | 1992-09-22 | Quad No: | |
| Date Regis: | | State Code: | 22 |
| Screen Dia: | | Parish No: | 081 |
| Screen Int: | 56-59 | Parish Cod: | 41 |
| Screen Type: | | Parish Name: | RED RIVER |
| Screen D1: | | Y Coord: | 315743 |
| Screen D2: | | X Coord: | 932046 |
| Mechanic A: | | Longitude: | -93.34611111 |
| Chem Analysis: | Q | Latitude: | 31.96194444 |
| Bio Analysis: | | | |

# Wells and Additional Sources Detail Report

| | |
|---|---|
| Available: | Driller Log, Quality of Water, Water Level |
| Aquifer Name: | RED RIVER ALLUVIAL AQUIFER |
| Drill Log: | D |
| Drillers Name: | U.S.G.S. |
| Drillers: | 002 |
| Use Desc: | water level observation |
| Location City: | |
| Location Miles: | 0.0 |
| Location Desc: | |
| Inspection: | |
| Inspector: | |
| Inspector 1: | |
| PA Remarks: | |
| PA Signature: | |
| PA Signature 1: | |
| PA Details: | |
| Remarks: | |
| Comments: | |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 9 | WNW | 0.16 | 864.23 | 131.21 | WATER WELLS |

| | | | |
|---|---|---|---|
| Water Well No: | 472072 | Industrial: | |
| Local Well: | 128 | Industrial 1: | |
| Alt Water Well: | 081-128 | Public Sup: | |
| Well Status: | Active | Public S 1: | |
| Sequence No: | 01 | Replacement: | |
| WWO Seq No: | 0 | Gravel Pac: | No |
| Serial No: | | Ground Evel: | |
| Identification: | 315742093205301 | Diameter O: | |
| Well Use: | P | Authorized: | |
| Well Subus: | T | Authorized 1: | |
| Well Depth: | 65 | Cemented F: | |
| Geologic Unit: | 112RRVA | Slot Length: | |
| Water Level: | 15.00 | Slot Size: | |
| Date Measure: | 05/01/55 | Extension: | |
| Casing Dia: | 2 | Extension 1: | |
| Casing Material: | | Extension 2: | |
| Casing D1: | | Create Date: | |
| Casing D2: | | Create Use: | |
| Casing Len: | | Update Date: | |
| Hole Depth: | 65 | Update Use: | |
| Elevation: | 131 | Refresh Up: | |
| Yield: | | Elec Log: | |
| Drawdown: | | Owners No: | |
| Source of: | Z | Owner Stat: | |

| | | | |
|---|---|---|---|
| Date Complete: | 05/55 | Contact: | |
| Plugged By: | | Section: | 001 |
| Plugged 1: | | Township: | 11N |
| Date Plugg: | | Range: | 10W |
| Date of Ad: | | Quad No: | |
| Date Regis: | | State Code: | 22 |
| Screen Dia: | 2 | Parish No: | 081 |
| Screen Int: | 60-65 | Parish Cod: | 41 |
| Screen Type: | | Parish Name: | RED RIVER |
| Screen D1: | | Y Coord: | 315742 |
| Screen D2: | | X Coord: | 932053 |
| Mechanic A: | | Longitude: | -93.34805556 |
| Chem Analysis: | | Latitude: | 31.96166667 |
| Bio Analysis: | | | |
| Available: | Water Level | | |
| Aquifer Name: | RED RIVER ALLUVIAL AQUIFER | | |
| Drill Log: | | | |
| Drillers Name: | BOSKEY JOHN | | |
| Drillers: | 000 | | |
| Use Desc: | institution public supply | | |
| Location City: | | | |
| Location Miles: | 0.0 | | |
| Location Desc: | | | |
| Inspection: | | | |
| Inspector: | | | |
| Inspector 1: | | | |
| PA Remarks: | | | |
| PA Signature: | | | |
| PA Signature 1: | | | |
| PA Details: | | | |
| Remarks: | | | |
| Comments: | | | |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 14 | NW | 0.46 | 2,446.71 | 131.22 | WATER WELLS |

| | | | |
|---|---|---|---|
| Water Well No: | 472063 | Industrial: | |
| Local Well: | 119 | Industrial 1: | |
| Alt Water Well: | 081-119 | Public Sup: | |
| Well Status: | Active | Public S 1: | |
| Sequence No: | 01 | Replacement: | |
| WWO Seq No: | 0 | Gravel Pac: | No |
| Serial No: | | Ground Evel: | |
| Identification: | 315756093210501 | Diameter O: | |
| Well Use: | H | Authorized: | |
| Well Subus: | | Authorized 1: | |

# Wells and Additional Sources Detail Report

| | | | |
|---|---|---|---|
| Well Depth: | 65 | Cemented F: | |
| Geologic Unit: | 112RRVA | Slot Length: | |
| Water Level: | 23.00 | Slot Size: | |
| Date Measure: | 00/00/52 | Extension: | |
| Casing Dia: | 4 | Extension 1: | |
| Casing Material: | | Extension 2: | |
| Casing D1: | | Create Date: | |
| Casing D2: | | Create Use: | |
| Casing Len: | | Update Date: | |
| Hole Depth: | 65 | Update Use: | |
| Elevation: | 130 | Refresh Up: | |
| Yield: | | Elec Log: | |
| Drawdown: | | Owners No: | |
| Source of: | Z | Owner Stat: | |
| Date Complete: | 1952 | Contact: | |
| Plugged By: | | Section: | 001 |
| Plugged 1: | | Township: | 11N |
| Date Plugg: | | Range: | 10W |
| Date of Ad: | 1994-10-13 | Quad No: | |
| Date Regis: | | State Code: | 22 |
| Screen Dia: | | Parish No: | 081 |
| Screen Int: | 55-65 | Parish Cod: | 41 |
| Screen Type: | | Parish Name: | RED RIVER |
| Screen D1: | | Y Coord: | 315756 |
| Screen D2: | | X Coord: | 932105 |
| Mechanic A: | | Longitude: | -93.35138889 |
| Chem Analysis: | | Latitude: | 31.96555556 |
| Bio Analysis: | | | |
| Available: | Water Level | | |
| Aquifer Name: | RED RIVER ALLUVIAL AQUIFER | | |
| Drill Log: | | | |
| Drillers Name: | DUCO JOHN | | |
| Drillers: | 000 | | |
| Use Desc: | domestic | | |
| Location City: | | | |
| Location Miles: | 0.0 | | |
| Location Desc: | | | |
| Inspection: | | | |
| Inspector: | | | |
| Inspector 1: | | | |
| PA Remarks: | | | |
| PA Signature: | | | |
| PA Signature 1: | | | |
| PA Details: | | | |
| Remarks: | | | |
| Comments: | | | |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|

# Wells and Additional Sources Detail Report

| | | | | | |
|---|---|---|---|---|---|
| 19 | S | 0.54 | 2,830.33 | 126.50 | WATER WELLS |

| | | | |
|---|---|---|---|
| Water Well No: | 473460 | Industrial: | |
| Local Well: | 6032Z | Industrial 1: | |
| Alt Water Well: | 081-6032Z | Public Sup: | |
| Well Status: | Plugged and Abandonded | Public S 1: | |
| Sequence No: | 01 | Replacement: | |
| WWO Seq No: | 0 | Gravel Pac: | No |
| Serial No: | 240624 | Ground Evel: | |
| Identification: | 315644093202001 | Diameter O: | |
| Well Use: | S | Authorized: | |
| Well Subus: | | Authorized 1: | |
| Well Depth: | 75 | Cemented F: | |
| Geologic Unit: | 112RRVA | Slot Length: | |
| Water Level: | 5.00 | Slot Size: | |
| Date Measure: | 01/07/10 | Extension: | |
| Casing Dia: | 4 | Extension 1: | |
| Casing Material: | PLASTIC | Extension 2: | |
| Casing D1: | | Create Date: | |
| Casing D2: | | Create Use: | |
| Casing Len: | | Update Date: | |
| Hole Depth: | 75 | Update Use: | |
| Elevation: | 0124 | Refresh Up: | |
| Yield: | | Elec Log: | |
| Drawdown: | | Owners No: | VIRGINIA WEBB 13 H 1 |
| Source of: | D | Owner Stat: | |
| Date Complete: | 01/10 | Contact: | |
| Plugged By: | | Section: | 013 |
| Plugged 1: | 749 | Township: | 11N |
| Date Plugg: | 07/30/2012 | Range: | 10W |
| Date of Ad: | 2010-02-04 | Quad No: | 078B |
| Date Regis: | 02/10 | State Code: | 22 |
| Screen Dia: | 4 | Parish No: | 081 |
| Screen Int: | 55-75 | Parish Cod: | 41 |
| Screen Type: | | Parish Name: | RED RIVER |
| Screen D1: | | Y Coord: | 315644 |
| Screen D2: | | X Coord: | 932020 |
| Mechanic A: | | Longitude: | -93.33888889 |
| Chem Analysis: | | Latitude: | 31.94555556 |
| Bio Analysis: | | | |
| Available: | Driller Log, Water Level | | |
| Aquifer Name: | RED RIVER ALLUVIAL AQUIFER | | |
| Drill Log: | D | | |
| Drillers Name: | PINNERGY, LTD | | |
| Drillers: | 652 | | |
| Use Desc: | oil/gas well rig supply | | |

# Wells and Additional Sources Detail Report

| | |
|---|---|
| Location City: | ARMSTEAD |
| Location Miles: | 0.0 |
| Location Desc: | ARMSTEAD TAKE HWY 1 SOUTH 5.4 MI TURN RIGHT CATFISH BEND RD |
| Inspection: | 10/23/2012 |
| Inspector: | RHONDA FOSTER |
| Inspector 1: | |
| PA Remarks: | |
| PA Signature: | TIM FETTERMAN |
| PA Signature 1: | 17-Aug-2012 |
| PA Details: | ALL CASING LEFT IN HOLE. TREMMIE PIPE TO BOTTOM AND FILLED WITH CEMENT AND BENTONITE SLURRY |
| Remarks: | 0.4 MI TURN RIGHT LEASE ROAD TO LOCATION |
| Comments: | |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 24 | SE | 0.71 | 3,756.77 | 129.45 | WATER WELLS |

| | | | |
|---|---|---|---|
| Water Well No: | 472150 | Industrial: | |
| Local Well: | 204 | Industrial 1: | |
| Alt Water Well: | 081-204 | Public Sup: | |
| Well Status: | Active | Public S 1: | |
| Sequence No: | 01 | Replacement: | |
| WWO Seq No: | 0 | Gravel Pac: | No |
| Serial No: | | Ground Evel: | |
| Identification: | 315700093193601 | Diameter O: | |
| Well Use: | O | Authorized: | |
| Well Subus: | W | Authorized 1: | |
| Well Depth: | 66 | Cemented F: | |
| Geologic Unit: | 112RRVA | Slot Length: | |
| Water Level: | 26.10 | Slot Size: | |
| Date Measure: | 11/03/71 | Extension: | |
| Casing Dia: | 1.25 | Extension 1: | |
| Casing Material: | METAL | Extension 2: | |
| Casing D1: | | Create Date: | |
| Casing D2: | | Create Use: | |
| Casing Len: | | Update Date: | |
| Hole Depth: | 0 | Update Use: | |
| Elevation: | 129 | Refresh Up: | |
| Yield: | | Elec Log: | |
| Drawdown: | | Owners No: | |
| Source of: | A | Owner Stat: | |
| Date Complete: | 06/71 | Contact: | |
| Plugged By: | | Section: | 008 |
| Plugged 1: | | Township: | 11N |
| Date Plugg: | | Range: | 09W |
| Date of Ad: | 1992-09-22 | Quad No: | |
| Date Regis: | | State Code: | 22 |

| | | | |
|---|---|---|---|
| Screen Dia: | | Parish No: | 081 |
| Screen Int: | 63-66 | Parish Cod: | 41 |
| Screen Type: | | Parish Name: | RED RIVER |
| Screen D1: | | Y Coord: | 315700 |
| Screen D2: | | X Coord: | 931936 |
| Mechanic A: | | Longitude: | -93.32666667 |
| Chem Analysis: | Q | Latitude: | 31.95 |
| Bio Analysis: | | | |
| Available: | Driller Log, Quality of Water, Water Level | | |
| Aquifer Name: | RED RIVER ALLUVIAL AQUIFER | | |
| Drill Log: | D | | |
| Drillers Name: | U.S.G.S. | | |
| Drillers: | 002 | | |
| Use Desc: | water level observation | | |
| Location City: | | | |
| Location Miles: | 0.0 | | |
| Location Desc: | | | |
| Inspection: | | | |
| Inspector: | | | |
| Inspector 1: | | | |
| PA Remarks: | | | |
| PA Signature: | | | |
| PA Signature 1: | | | |
| PA Details: | | | |
| Remarks: | | | |
| Comments: | | | |

| Map Key | Direction | Distance (mi) | Distance (ft) | Elevation (ft) | DB |
|---|---|---|---|---|---|
| 31 | W | 0.90 | 4,753.68 | 127.61 | WATER WELLS |

| | | | |
|---|---|---|---|
| Water Well No: | 472997 | Industrial: | |
| Local Well: | 5567Z | Industrial 1: | |
| Alt Water Well: | 081-5567Z | Public Sup: | |
| Well Status: | Active | Public S 1: | |
| Sequence No: | 01 | Replacement: | |
| WWO Seq No: | 0 | Gravel Pac: | No |
| Serial No: | | Ground Evel: | |
| Identification: | 315720093213301 | Diameter O: | |
| Well Use: | H | Authorized: | |
| Well Subus: | | Authorized 1: | |
| Well Depth: | 65 | Cemented F: | |
| Geologic Unit: | 112RRVA | Slot Length: | |
| Water Level: | 18.00 | Slot Size: | |
| Date Measure: | 09/18/99 | Extension: | |
| Casing Dia: | 4 | Extension 1: | |
| Casing Material: | PLASTIC | Extension 2: | |

# Wells and Additional Sources Detail Report

| | | | |
|---|---|---|---|
| Casing D1: | | Create Date: | |
| Casing D2: | | Create Use: | |
| Casing Len: | | Update Date: | |
| Hole Depth: | 65 | Update Use: | |
| Elevation: | 130 | Refresh Up: | |
| Yield: | | Elec Log: | |
| Drawdown: | | Owners No: | |
| Source of: | D | Owner Stat: | |
| Date Complete: | 09/99 | Contact: | |
| Plugged By: | | Section: | 011 |
| Plugged 1: | | Township: | 11N |
| Date Plugg: | | Range: | 10W |
| Date of Ad: | 2001-07-27 | Quad No: | 078B |
| Date Regis: | 10/99 | State Code: | 22 |
| Screen Dia: | 4 | Parish No: | 081 |
| Screen Int: | 45-65 | Parish Cod: | 41 |
| Screen Type: | | Parish Name: | RED RIVER |
| Screen D1: | | Y Coord: | 315720 |
| Screen D2: | | X Coord: | 932133 |
| Mechanic A: | | Longitude: | -93.35916667 |
| Chem Analysis: | | Latitude: | 31.95555556 |
| Bio Analysis: | | | |
| Available: | Driller Log, Water Level | | |
| Aquifer Name: | RED RIVER ALLUVIAL AQUIFER | | |
| Drill Log: | D | | |
| Drillers Name: | KEITHVILLE | | |
| Drillers: | 018 | | |
| Use Desc: | domestic | | |
| Location City: | | | |
| Location Miles: | 0.0 | | |
| Location Desc: | | | |
| Inspection: | | | |
| Inspector: | | | |
| Inspector 1: | | | |
| PA Remarks: | | | |
| PA Signature: | | | |
| PA Signature 1: | | | |
| PA Details: | | | |
| Remarks: | | | |
| Comments: | | | |

# Radon Information

This section lists any relevant radon information found for the target property.

Federal EPA Radon Zone for *RED RIVER* County: **3**

*Zone 1: Counties with predicted average indoor radon screening levels greater than 4 pCi/L*
*Zone 2: Counties with predicted average indoor radon screening levels from 2 to 4 pCi/L*
*Zone 3: Counties with predicted average indoor radon screening levels less than 2 pCi/L*

---

Federal Area Radon Information for *RED RIVER* County

| | |
|---|---|
| No Measures/Homes: | 4 |
| Geometric Mean: | 0.7 |
| Arithmetic Mean: | 0.8 |
| Median: | 0.9 |
| Standard Deviation: | 0.4 |
| Maximum: | 1.3 |
| % >4 pCi/L: | 0 |
| % >20 pCi/L: | 0 |
| Notes on Data Table: | TABLE 1. Screening indoor radon data from the EPA/State Residential Radon Survey of Louisiana conducted during 1989-90. Data represent 2-7 day charcoal canister measurements from the lowest level of each home tested. |

# Appendix

## Federal Sources

**FEMA National Flood Hazard Layer** — **FEMA FLOOD**

The National Flood Hazard Layer (NFHL) data incorporates Flood Insurance Rate Map (FIRM) databases published by the Federal Emergency Management Agency (FEMA), and any Letters Of Map Revision (LOMRs) that have been issued against those databases since their publication date. The FIRM Database is the digital, geospatial version of the flood hazard information shown on the published paper FIRMs. The FIRM Database depicts flood risk information and supporting data used to develop the risk data. The FIRM Database is derived from Flood Insurance Studies (FISs), previously published FIRMs, flood hazard analyses performed in support of the FISs and FIRMs, and new mapping data, where available.

**Indoor Radon Data** — **INDOOR RADON**

Indoor radon measurements tracked by the Environmental Protection Agency(EPA) and the State Residential Radon Survey.

**Public Water Systems Violations and Enforcement Data** — **PWSV**

List of drinking water violations and enforcement actions from the Safe Drinking Water Information System (SDWIS) made available by the Drinking Water Protection Division of the US EPA's Office of Groundwater and Drinking Water. Enforcement sensitive actions are not included in the data released by the EPA. Address information provided in SWDIS may correspond either with the physical location of the water system, or with a contact address.

**Radon Zone Level** — **RADON ZONE**

Areas showing the level of Radon Zones (level 1, 2 or 3) by county. This data is maintained by the Environmental Protection Agency (EPA).

**Safe Drinking Water Information System (SDWIS)** — **SDWIS**

The Safe Drinking Water Information System (SDWIS) contains information about public water systems as reported to US Environmental Protection Agency (EPA) by the states. Addresses may correspond with the location of the water system, or with a contact address.

**Soil Survey Geographic database** — **SSURGO**

The Soil Survey Geographic database (SSURGO) contains information about soil as collected by the National Cooperative Soil Survey at the Natural Resources Conservation Service (NRCS). Soil maps outline areas called map units. The map units are linked to soil properties in a database. Each map unit may contain one to three major components and some minor components.

**USGS Current Topo** — **US TOPO**

US Topo topographic maps are produced by the National Geospatial Program of the U.S. Geological Survey (USGS). The project was launched in late 2009, and the term "US Topo" refers specifically to quadrangle topographic maps published in 2009 and later.

**USGS Geology** — **US GEOLOGY**

Seamless maps depicting geological information provided by the United States Geological Survey (USGS).

**USGS National Water Information System** — **FED USGS**

The U.S. Geological Survey's (USGS) National Water Information System (NWIS) is the nation's principal repository of water resources data. The data includes comprehensive information of well-construction details, time-series data for gage height, streamflow, groundwater level, and precipitation and water use data. This NWIS database information is obtained through the Water Quality Data Portal (WQP). The WQP is a cooperative service sponsored by the USGS, the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC).

**Wells from NWIS** — **FED USGS**

The U.S. Geological Survey's (USGS) National Water Information System (NWIS) is the nation's principal repository of water resources data. The NWIS includes comprehensive information of well-construction details, time-series data for gage height, streamflow, groundwater level, and precipitation and water use data. This select NWIS Wells dataset contains specific Site Types from the overall NWIS Sites data, limited to the following Group Site Types only: Groundwater Group Site Types: Well, Collector or Ranney type well, Hyporheic-zone well, Interconnected Wells, Multiple wells; Spring Group Site Type: Spring; and Other Group Site Types: Aggregate groundwater use, Cistern. Applicable NWIS database information is obtained

through the Water Quality Data Portal (WQP). The WQP is a cooperative service sponsored by the USGS, the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC).

## State Sources

**Oil and Gas Wells** **OGW**

Oil and Gas Wells Data made available by the Louisiana Department of Natural Resources (DNR). The data contains general information and location information about Oil and Gas Wells monitored by the Department of Natural Resources.

**Public Water Supply Wells** **PWSW**

The Public Water Supply Wells (PWSW) data consist of all the public water supply wells in Louisiana. This data was made available by Louisiana Department of Natural Resources.

**Water Wells Registration Dataset** **WATER WELLS**

Once maintained by the Department of Transportation and Development, Office of Public Works, the Water Wells Registration Dataset tracks registered water wells and holes in the state of Louisiana. In January 2010, the Department of Natural Resources, Office of Conservation took over the responsibility of tracking water wells and maintenance of the Water Wells Registration Dataset.

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# TOPOGRAPHIC MAPS

| | |
|---|---|
| **Project Property:** | Red River Parish Port Site<br>n/a<br>Coushatta LA None |
| **Project No:** | None |
| **Requested By:** | GeoEngineers, Inc. |
| **Order No:** | 23112100939 |
| **Date Completed:** | November 22, 2023 |

**Environmental Risk Information Services**
*A division of Glacier Media Inc.*
1.866.517.5204 | info@erisinfo.com | erisinfo.com

We have searched USGS collections of current topographic maps and historical topographic maps for the project property. Below is a list of maps found for the project property and adjacent area. Maps are from 7.5 and 15 minute topographic map series, if available.

| Year | Map Series |
|---|---|
| 2020 | 7.5 |
| 2015 | 7.5 |
| 1992 | 7.5 |
| 1989 | 7.5 |
| 1938 | 7.5 |
| 1957 | 15 |
| 1947 | 15 |

**Topographic Map Symbology for the maps may be available in the following documents:**

*Pre-1947*

Page 223 of 1918 Topographic Instructions

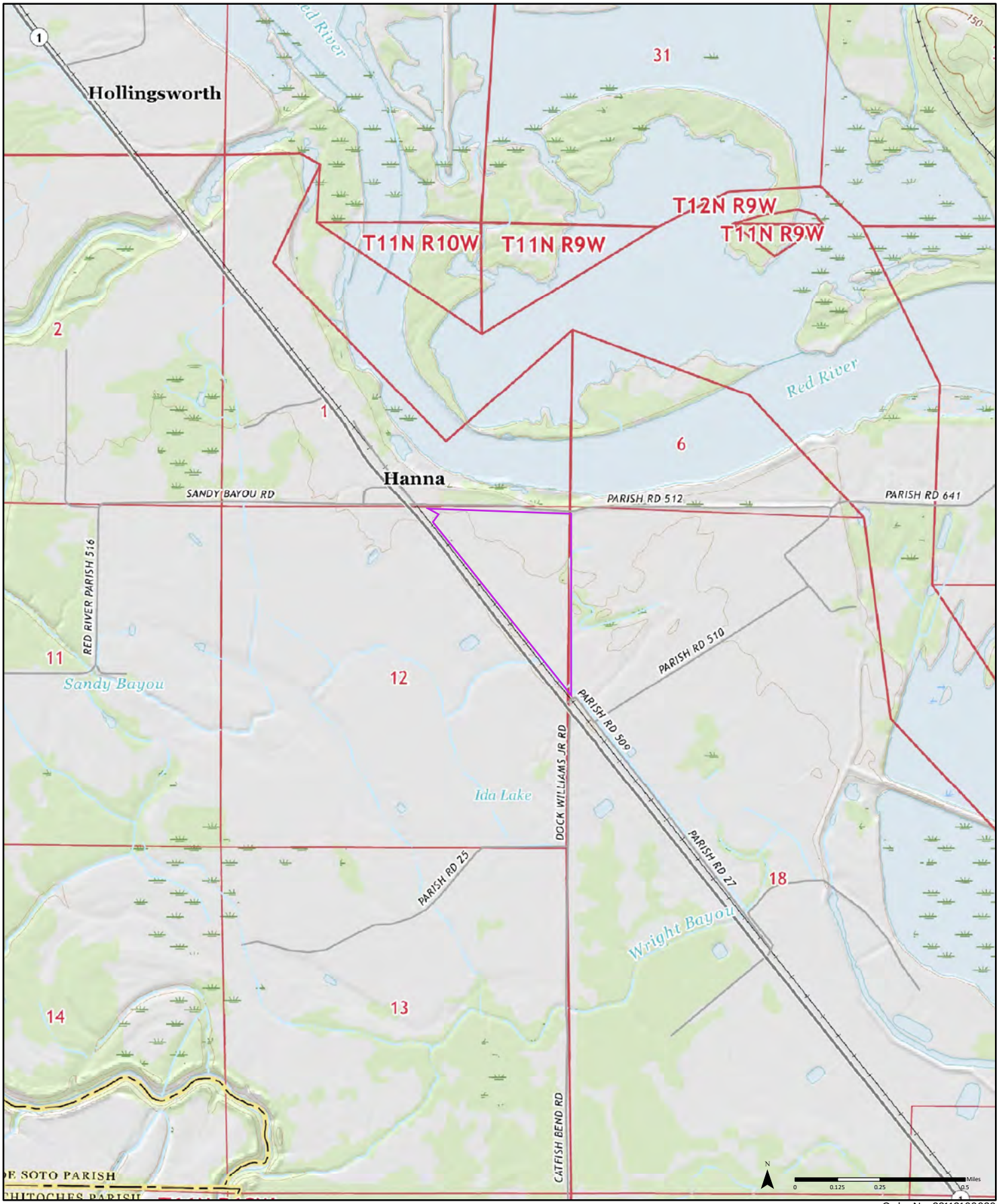
Page 130 of 1928 Topographic Instructions

*1947-2009*

Topographic Map Symbols

*2009-present*

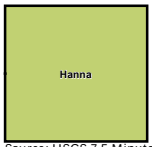
US Topo Map Symbols



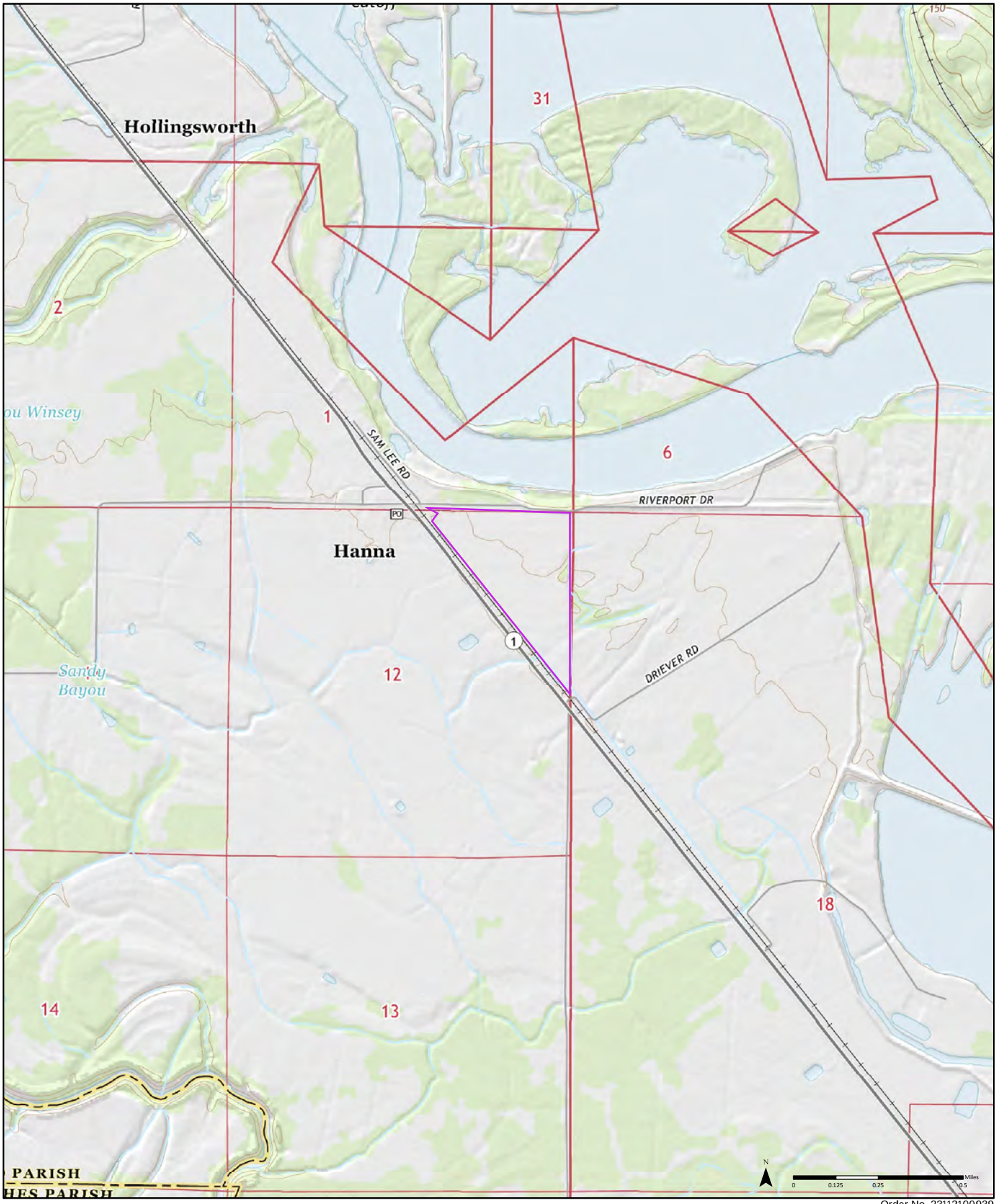

2020

Order No. 23112100939

Available Quadrangle(s): Hanna, LA

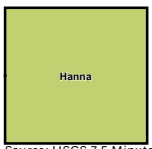



Source: USGS 7.5 Minute Topographic Map



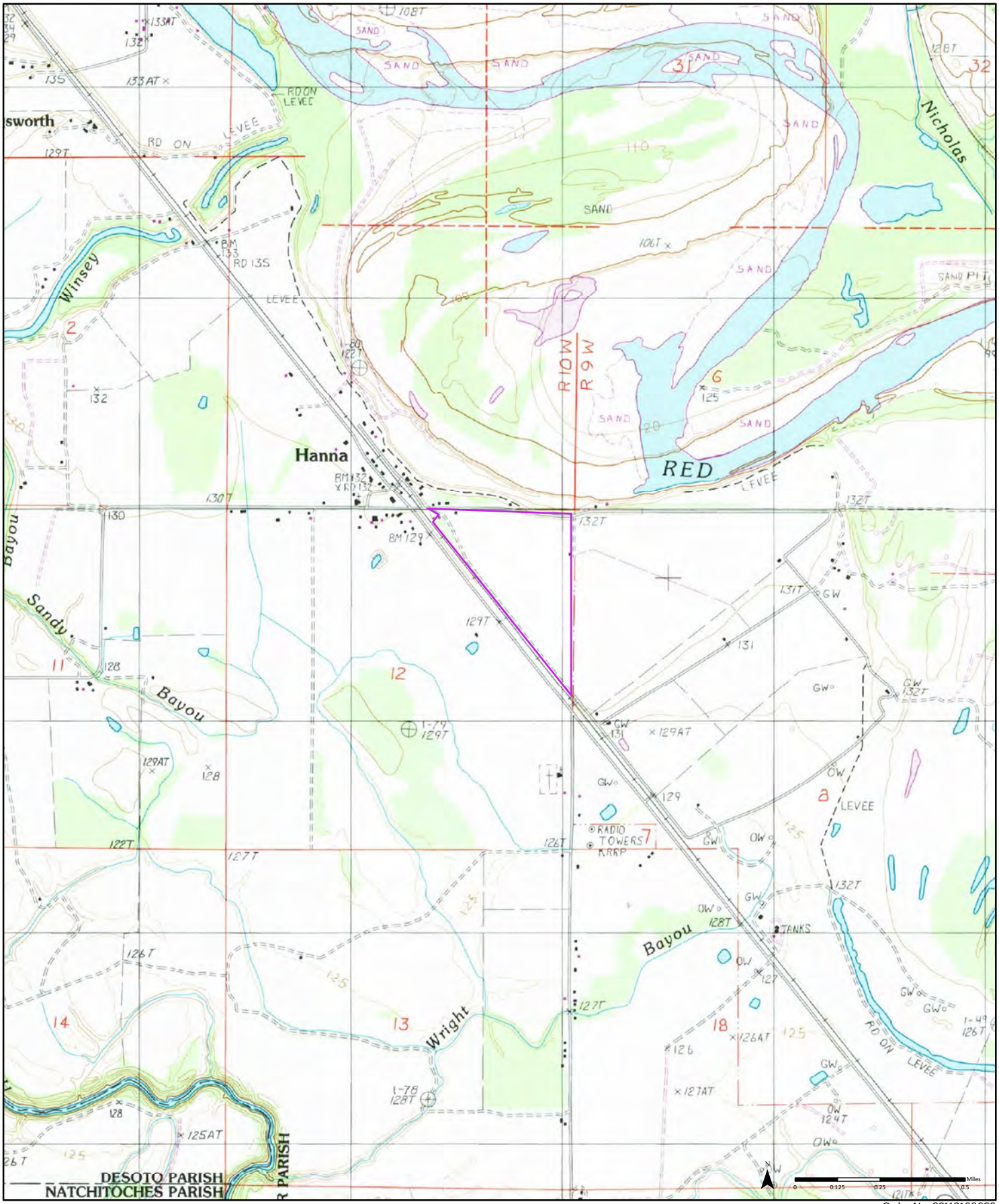

Order No. 23112100939

2015




Available Quadrangle(s): Hanna, LA

Source: USGS 7.5 Minute Topographic Map



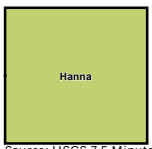

1992 *(1-1992)*

*Aerial Photo Year: 1989*

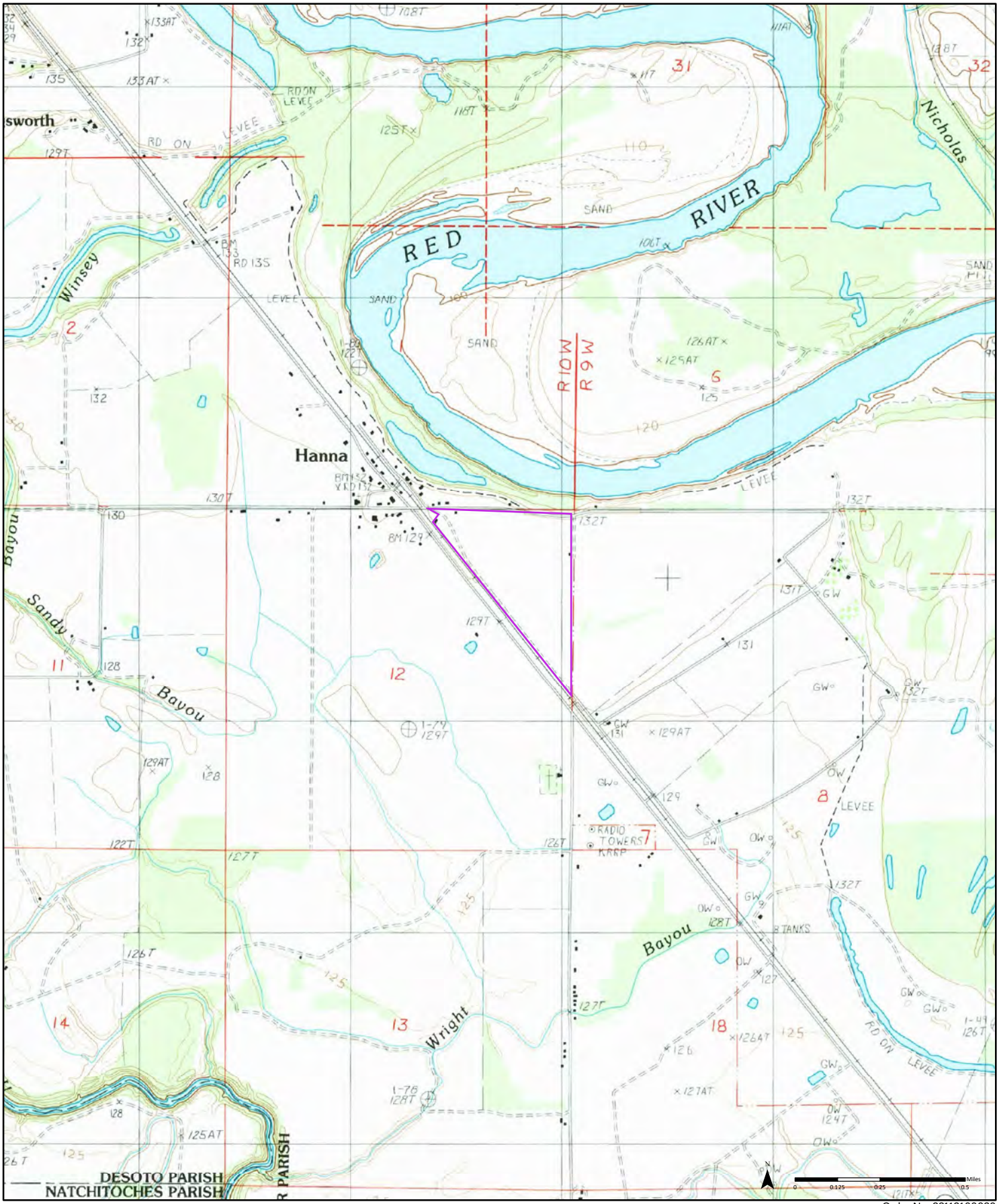
*Photo Revision Year: 1992*

Order No. 23112100939

Available Quadrangle(s): Hanna, LA(1-1992)




Source: USGS 7.5 Minute Topographic Map

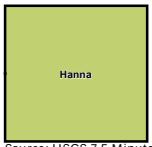



1989 (1-1989)

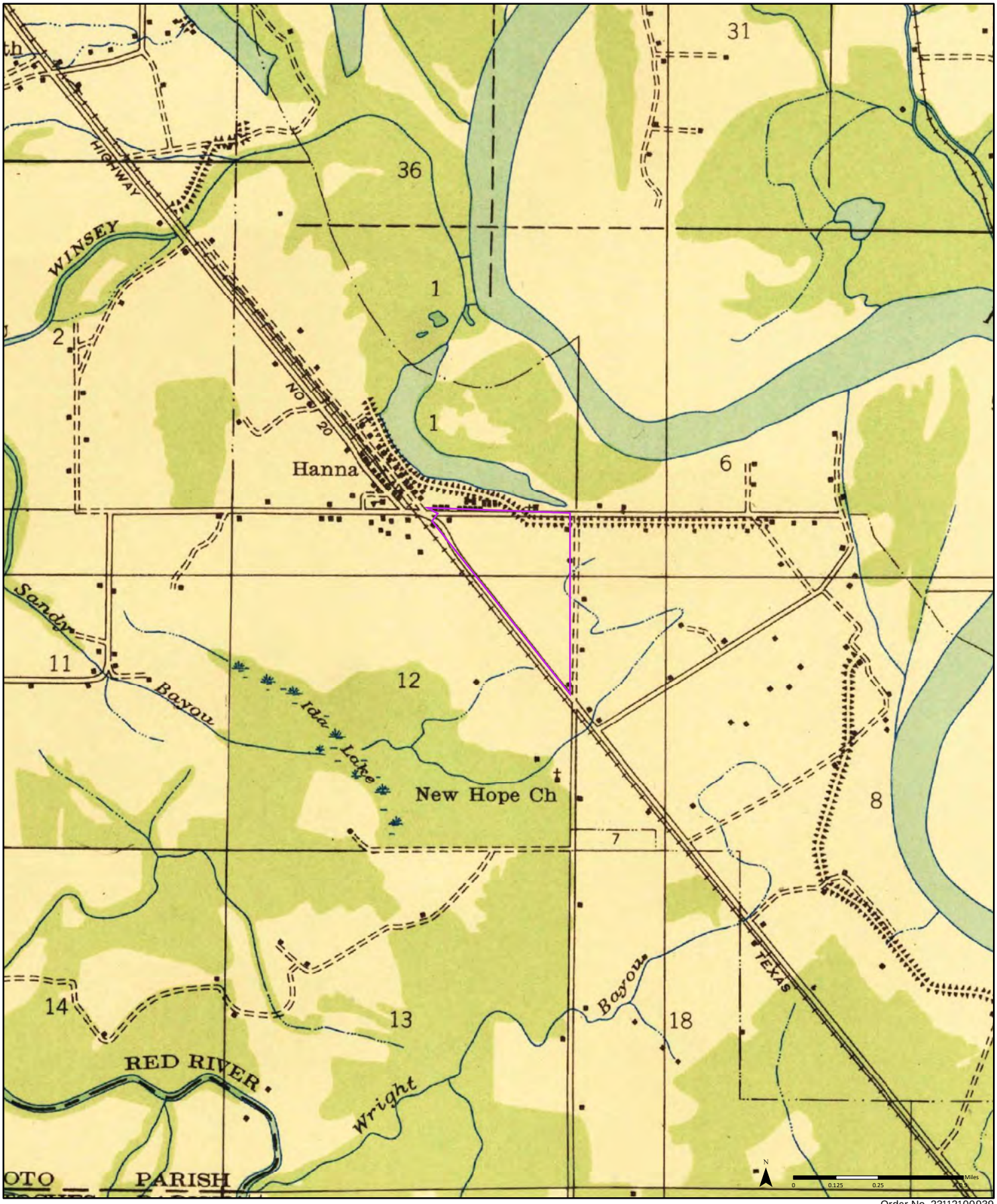
*Aerial Photo Year: 1982*

Order No. 23112100939

Available Quadrangle(s): Hanna, LA(1-1989)



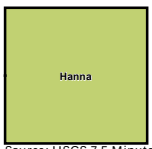

Source: USGS 7.5 Minute Topographic Map




1938

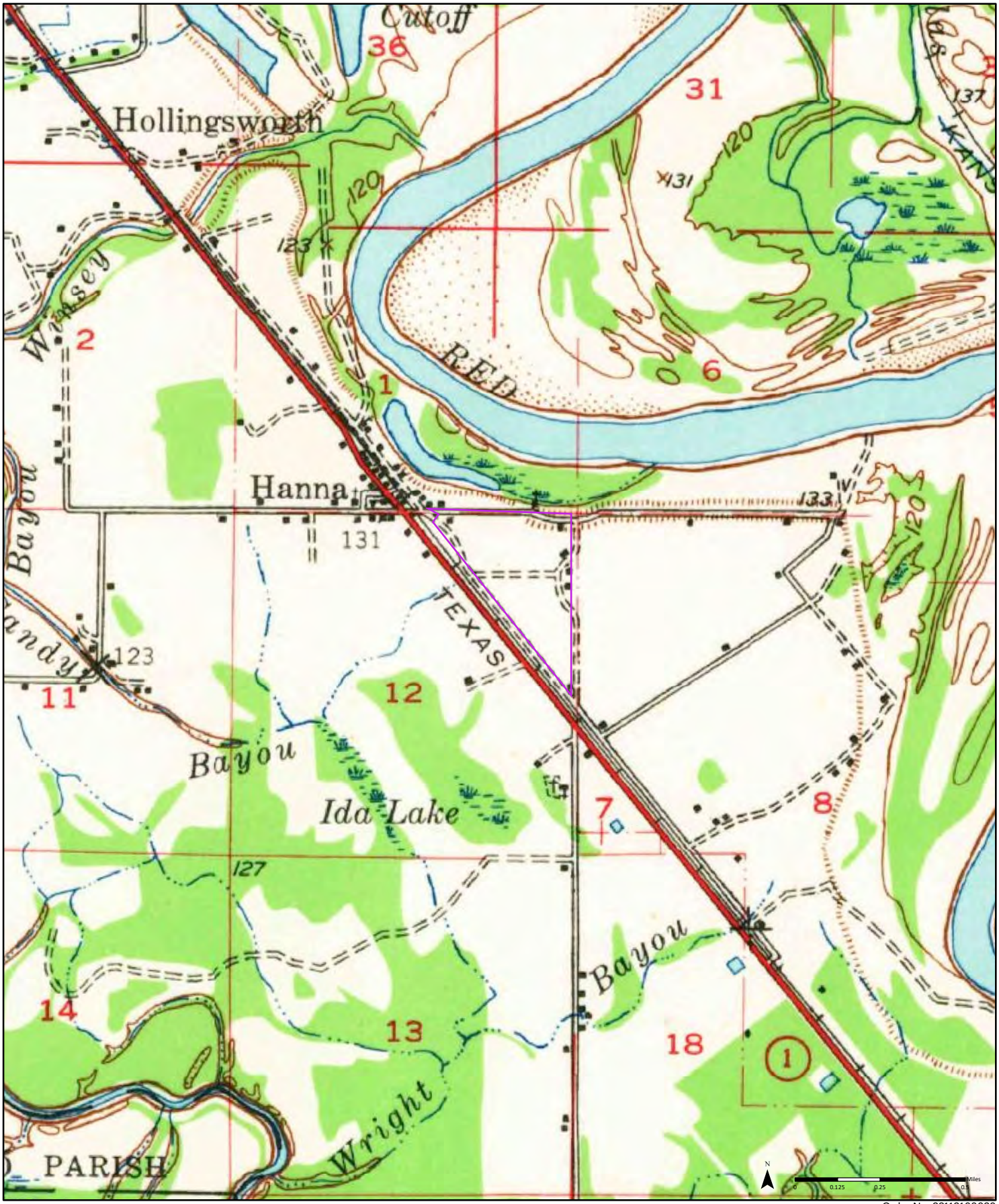
Order No. 23112100939

Available Quadrangle(s): Lake End, LA




Source: USGS 7.5 Minute Topographic Map

ERIS

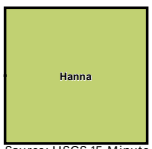



1957 *(1-1957)*

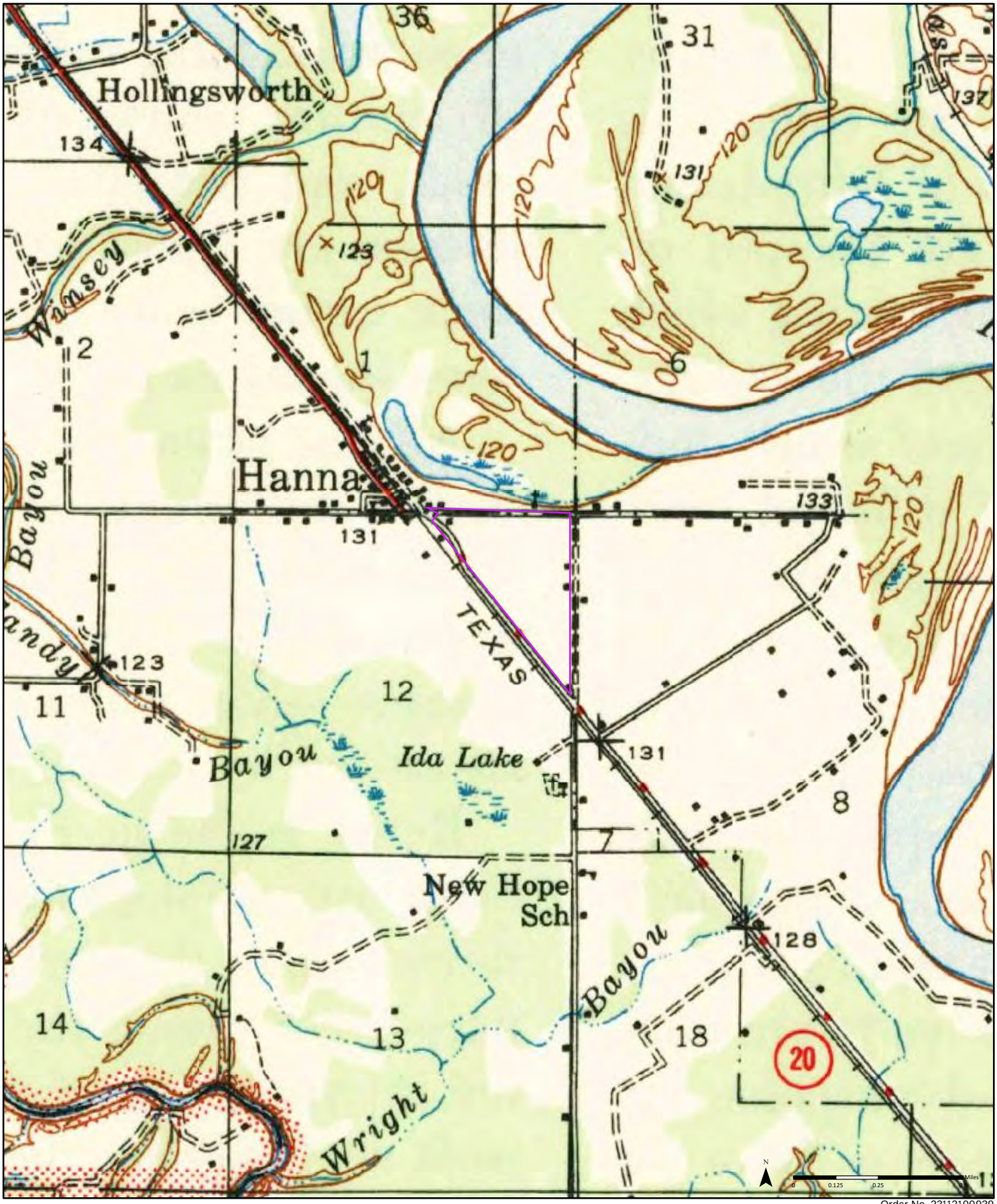
*Aerial Photo Year: 1956*

Order No. 23112100939

Available Quadrangle(s): Hanna, LA(1-1957)



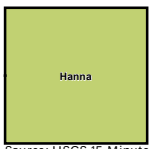

Source: USGS 15 Minute Topographic Map




1947

Order No. 23112100939

Available Quadrangle(s): Hanna, LA




Source: USGS 15 Minute Topographic Map

ERIS

# APPENDIX D
## Resumes

## DENISE RADAICH, PE

Associate Engineer

**Location:** Baton Rouge, LA

**Years of Experience**: 32

**Education**: B.S. Civil Engineering, Louisiana State University, 1990

**Registrations & Certifications:** Professional Engineer: Louisiana (#27100); Mississippi (#15244); OSHA HAZWOPER 40-hour Training; Behavior-Based Safety Training; Loss Prevention System Training

Ms. Radaich has over 32 years of experience in civil and remedial engineering design, project management, and leading project resident engineers and field construction management teams. She has been responsible for working with, coordinating, and mentor junior engineers and technicians for over 20 years. During that time, she has been involved in various projects that range from site assessments to planning, designing, and overseeing remediation projects at pulp and paper mills, wood treating facilities, refineries, chemical plants, natural gas compressor stations, pipelines and other manufacturing facilities.

### Experience

**Confidential Client, Remediation; Belle Chase, Louisiana**

Engineer managing compliance of ongoing soil remediation using the Louisiana Risk Evaluation/Corrective Action Plan (RECAP). Excavation limits are determined by comparison to site-specific RECAP values for both onsite and offsite soils. Site is located on the Mississippi River batture and work is coordinated with multiple agencies and stakeholders and completed seasonally based on the river water elevations.

**Closure of Solid Waste and Coal Combustion Residual (CCR) Impoundments, Site Decommissioning and Demolition and Landfill Closure; Mansfield, Louisiana**

Supervising engineer for the closure of four solid waste impoundments permitted by LDEQ, three CCR impoundments permitted by EPA, closure of the solid waste Type 1 landfill permitted by LDEQ and the decommissioning and demolition of the 720 MW lignite coal-fired power plant. The closures include removal of about 600,000 cubic yards of CCR material and 200,000 cubic yards of solid waste/sludge material which is being placed into the onsite landfill and closed with an engineered cover. The work included preparation of Plans and Specifications suitable to receive contractor bids, bid evaluation, Contractor selection, managing the construction oversite, quality assurance testing and preparing and submitting closure reports to LDEQ.

**University Lakes Environmental Sampling and Testing; Baton Rouge, Louisiana**

Supervising engineer for environmental sampling of sediments in University Lakes. Vibracore push samples and bulk sediment samples were collected and tested for potential constituents of concern and for treatability testing to determine appropriate dewatering methods. The project is a multi-disciplinary team effort with high visibility in Baton Rouge, LA. Evaluated dewatering methods for dredged sediments.

### Mill Lake Sediment Remediation; Yellowknife, Northwest Territories, Canada

Senior remediation lead for the development of a Remedial Action Plan (RAP) that included remedial alternatives and an alternative evaluation using a Multiple Accounts Analysis (MAA) and developing a Class 4 cost estimate. This project was for remediation of impacted sediments at the former Rayrock Uranium Mine site located near Yellowknife, Northwest Territories, Canada. Eight remedial alternatives were evaluated using the MAA process that evaluates and scores alternatives using a tiered evaluation set up as a matrix. The first tier is comprised of four categories and each category is further broken out into second tier of individual categories selected to be appropriate for specific area/elements being evaluated. The first tier consisted of: 1) Socio-Economic; 2) Technical, 3) Environment and Sustainability, and 4) Economic. The selected remedial approach was a hybrid of the two highest ranking alternatives and included constructing a sediment management unit (SMU) for dewatering sediment using geosynthetic bags, converting the SMU into a confined disposal facility after dewatering, blasting a channel inlet to connect to lower level drainage and grading the former lake bottom to drain.

### Bayou Chico Remediation; Pensacola, Florida

Proposal Manager and project engineer for the remediation of sediments in Bayou Chico which discharges into Pensacola Bay. The work involved the beneficial reuse of sediments using the USACE initiative Engineering with Nature® developed at the Engineering Research and Development Center (ERDC) located in Vicksburg, MS. This project was funded with RESTORE grants and our design concept allowed the County to save money by reusing the sediments onsite and was still protective of human health and the environment.

### Closure of Solid Waste Impoundments and Construction of Onsite Waste Storage Unit; Westlake, Louisiana

Project Manager and supervising engineer for the sampling and closure of five solid waste surface impoundments. The closures include in-situ solidification of about 90,000 cubic yards of sludge, consolidating the solidified material into an 11-acre waste storage unit and constructing an engineered cover over the solidified and graded material. Work included bench-scale testing, preparing the engineering design for the in-situ stabilization and the engineered cover system, preparing plans and specifications suitable to receive contractor bids, bid evaluation, Contractor selection, managing the construction oversite, quality assurance testing and preparing the closure reports to LDEQ.

Additional work at the site included design and construction of a new 12.6 million-gallon HDPE lined solid waste surface impoundment to contain wastewater. The design included hydrology and hydraulic studies to calculate stormwater run-off for the required design storm and any overflows expected from the plants wastewater treatment system. The design also included conveyance pumps and overflow prevention measures. AECOM prepared plans and specifications and assisted in Contractor selection and provided onsite construction support and Construction Quality Assurance.

### Sediment Remediation; Lake Charles, Louisiana

Project Engineer for CERCLA time-critical sediment removal action of a tidally influenced bayou in South Louisiana contaminated with volatile organics. Designed remedial support areas, temporary roads, and loading areas, diversion of bayou around removal area using 20,000 gpm pumping capacity, and cover system that was constructed over clay bottom that provided a barrier and a sub-strata similar with pre-removal conditions. Prepared the design package (conceptual, 30%, 60% and 100%), prepared the plans and specifications, performed value engineering and constructability review, completed bid documents and assisted in the contractor evaluation/selection process. The design and field work included provisions for working around overhead and underground lines, conducting all removal actions within tents (vapor-controlled structures) and periodic flooding conditions on the bayou.

### Remedial Design, Dredging and Treatment of Contaminated Sediments from Bayou Verdine; Lake Charles, Louisiana

Technical review engineer for the remedial design and engineering to address contaminated sediments in Bayou Verdine. The work included a pre-design investigation of about 2-miles of channel that included development of an assessment work plan and treatability study work plan and collection of surficial and core sediment samples. Dredging was selected and the best remedial option and the engineering and remedial design was completed (conceptual, 30%, 60% and 100%). Prepared plans and specifications, prepared bid documents and assisted in the contractor evaluation/selection process. The design included constructing a 5-acre impoundment for final containment of the dewatered sediment material and the design for connecting a formerly closed area back to the bayou by creating a self-sustaining green space and bayou habitat by repurposing excavated log and woody material from the bayou.

### Remediation and Closure WWTP Facilities containing Sediments and Soft Soils, Mississippi; International Paper Company,

The remediation project included the closure of over 180 acres of existing surface impoundments containing wood fiber and sludge disposal areas, closure of two onsite ash and rubbish landfills, demolition of a wastewater treatment system and the implementation of a subsurface biological injection program to reduce TCE concentrations in groundwater. Responsibilities included characterizing site constituents in soil and sediments, completing ecological risk screening, ecological risk assessment, writing the conceptual closure plan, conducting negotiations with MDEQ and EPA (RFI and ecological risk), hydrologic studies, preparing final engineering closure design for in-place capping and covering of site materials, design of landfill cover systems, and preparing plans and specifications, contracting the onsite contractor, construction/remediation oversight including daily construction reporting and budget tracking and writing the final closure report.

### Feasibility Study for Pond Closure; Oahu, Hawaii

Project engineer tasked with completing Feasibility Study for lining or closing three oxidation ponds located in a refinery in Oahu, Hawaii. The Feasibility Study included identifying and reviewing alternatives, ranking alternatives using client specific gated process selection criteria, preparing a Class 0 cost estimate and a technical memorandum.

### International Paper Company, Landfill and Solid Waste Impoundment Closures; Bastrop, Louisiana

Project manager and supervising engineer overseeing closure of Pulp and Paper Mill including 25-acre ash and paper sludge landfill, over 80 acres of surface impoundments and a wastewater treatment plant regulated by LDEQ Solid Waste Division. Surface impoundments consisted of aerated stabilization basins containing wood fiber sludge and an emergency spill basin. Closures included clean closures (removal of material), close in-place (using alternative design vegetative type covers) and closing the onsite landfill using engineered cover systems consisting of LLDPE, geocomposite drainage layers, compacted clay liners and a growing layer. The work included engineering design of closures, feasibility level cost estimates, preparation of Closure Plans (approved by LDEQ), preparation of Plans, Specifications, and schedules, pre-qualification and selection of subcontractor, Construction Management during the closures, quality assurance testing, daily construction reporting, budget tracking and preparation of the Closure Certification Report.

### Tennessee Gas Pipeline Company; Natchitoches, Louisiana

Site Engineer during remediation oversight for pipeline client responsible for managing remediation contractor activities, coordinating sampling crew activities, managing and tracking transportation and disposal of sediment, tracking costs, working with plant personnel, and documenting all remediation activities for a large PCB remediation project. Included removal of 30,000 cubic yards of sediment within a large lake used as a drinking water source. Prior to onsite activities assisted in preparation of work plan, plans and specifications for bid documents, and prepared final remediation report for submittal to LDEQ.

### International Paper Company Corrective Measures; DeRidder, Louisiana

Project Engineer prepared Feasibility Study, alternative selection and feasibility level cost estimates for the Corrective Measures Study. Designed the selected Corrective Measure for closure of a Solid Waste Management Unit (SWMU) at a former closed creosote and pentachlorophenol wood treating facility. Supervised the engineering design of the Corrective Measures including design of an evapotranspiration (ET) landfill cover and an engineered cover system for a contaminated drainage channel and designed and re-routed a new drainage channel through the impacted area. AECOM directly contracted the remediation work and provided engineering oversight during the work. Responsible for onsite field construction management including health and safety, budget tracking and coordinating with the remediation contractor.

### Confidential Client, Remediation and Closure SWMU; Shreveport, Louisiana

Project Manager responsible for engineering and onsite field construction management during implementation of a Corrective Action to remediate groundwater impacted by releases of chlorinated organics. Prepared feasibility study and feasibility level cost estimates for the Corrective Action. Two former SWMUs were impacted and required two separate remedies. One selected Corrective Measure was constructing a Permeable Reactive Barrier (PRB) with a treatment zone of zero-valent iron and silica sand mixed at 50% by weight. The PRB was 300-feet long, 2-feet wide and approximately 14- feet deep. The treatment zone began at a depth of 14-feet and extended up to 7-feet below ground surface. For the second SWMU, the selected Corrective Measure consisted of construction of a soil/bentonite slurry wall to a depth of about 27 feet below ground surface around the source area and constructing an engineered cover over the source area. The engineered cover consisted of an HDPE liner with a compacted clay cover and a vegetated growing layer. The work was done as part of an ongoing RCRA RFI overseen by the Louisiana Department of Environmental Quality (LDEQ). The work included a feasibility study, feasibility level costs estimates, pilot-scale testing, bench-scale testing, designing the PRB, slurry wall and cover systems, preparation of plans and specifications, pre-qualification and selection of subcontractors. AECOM directly contracted the remedial contractor and provided Construction Management during the PRB installation, quality assurance testing, daily construction reporting, budget tracking and preparation of the Closure Certification Report that was approved by LDEQ.

### Greenfield Multistate Trust, LLC., Iron Oxide Beneficial Use and Cost Analysis; Theodore, Alabama

Assumed project engineer role mid-way through the site feasibility study. Prepared the technical memorandum that documented the sampling and analysis activities at the site and site conditions. Assisted in preparation of the draft feasibility study and cost analysis that included a wide range of removal, containment and beneficial reuse alternatives for TENORM iron oxide material.

### Wastewater Lagoon Remediation; Pascagoula, Mississippi

Served as project engineer for remedial investigation to support closure of wastewater lagoons containing hazardous material in South Mississippi. Responsibilities included preparing sampling and analysis plans and data collection methods, overseeing collection of soil, sediment, and geotechnical data, preparing remedial alternatives evaluation, cost estimates, and design documents and specifications.

#### Additional Project Experience

- Manager of on-site field team for remediation of soils at confidential pipeline client. The work was conducted under an EPA Region VI Consent Order and included removal and off-site disposal of over 2,500 tons of PCB-contaminated soils. All areas were capped with offsite clay material and seeded. Worked closely with the client to implement several cost saving measures to complete the project, while satisfying the requirements of the Consent Order.
- Project Engineer and Manager of on-site field team for PCB remediation at Tennessee Gas Pipeline Station 40 located in Natchitoches, Louisiana. Work was conducted under an EPA Region VI Consent Order. Prepared sampling and analysis plans for site characterization, collected soil and sediment samples, reviewed analytical data and identified areas to be remediated, prepared site cleanup plan and plan and specifications for the remediation contractor. Managed on-site field team during remediation activities that involved removal of about 2,100 tons of PCB contaminated soil and disposal of material at an off-site TSCA landfill. At the end of the remediation prepared the Site Cleanup Report that was submitted to EPA and LDEQ for review and comment.
- Project Manager for installation of an interceptor trench to collect both surface water and groundwater located in a chemical plant in Norco, Louisiana. The work was conducted as an Interim Measures under a RCRA investigation. Work included designing the interceptor trench using one-pass trenching technology, writing an Interim Measure Plan, preparing cost estimates, specifications, and QA/QC construction plan, contractor and construction oversight, and preparing record drawings and Interim Measures Report.
- Task Manager for project involving construction of RCRA cover. The cover was constructed to address remedial action under an RFI. Included design and construction of a concrete drainage swale to remove water from the site.

## STEVEN DAVID, PWS

Senior Environmental Scientist

**Location:** Baton Rouge, LA
**Years of Experience**: 17
**Education**: B.S. Wildlife Management, McNeese State University, 2007
**Registrations & Certifications:** Professional Wetland Scientist, #2849; OSHA HAZWOPER 40-hour Training; CPR/First Aid, Boaters Safety, Trimble Certified, TWIC Certified

Steven has a total of 17 years' experience as a professional, with 11 years of consulting experience focusing on environmental, planning and permitting experience focusing on right of ways and facilities, specifically for pipelines and transmission lines. Most of these projects involve crossing private and government owned or operated properties and require in-depth communication with all parties. Steven has extensive experience with wetland delineations and T&E surveys. Steven has extensive experience in permitting, through the United States Army Corps of Engineers (USACE), LDNR, USFS, LDWF, SHPO, USFW, LDEQ, EPA, and local government entities where he has served as project manager for numerous projects.

Steven spent 6 of the 17 years working for two government agencies. While with LDWF, he managed 9 wildlife refuges and multiple personnel. Steven oversaw all projects in these areas, which mostly consisted of infrastructure installation and updating, all moist soil management projects, and any habitat creation or restoration tasks. With LDEQ, Steven was responsible for reviewing and overseeing remediation projects in Southwest Louisiana.

### Project Management Experience (Various Clients)

- New Transmission Line and Substation Projects, Louisiana
- Preparing SWPPP's and associated inspections, Louisiana
- Phase 1 and Phase 2 investigations and documentations
- Pipeline ROW surveys and permitting, Louisiana, Texas, Arkansas, Mississippi
- Mitigation Bank Creations and Credit Approvals, Louisiana
- Terrace Creation and Vegetation Planting, Coastal Louisiana
- Biological Sampling (Mammals, Fish, Invertebrates, and Vertebrates), Louisiana
- Fish Passage Projects, Mississippi River Valley
- Remediation Projects, Mississippi, and Louisiana
- Groundwater and Soil Sampling, Mississippi, Missouri, and Louisiana
- Habitat Restoration and Management, Louisiana, and Mississippi

GeoEngineers