

JULY 2020

COASTAL PROTECTION AND RESTORATION AUTHORITY BATON ROUGE, LOUISIANA



PHASE I ENVIRONMENTAL SITE ASSESSMENT

**EAST DELACROIX MARSH
CREATION AND TERRACING
PROJECT BS-0037**

**BRETON BASIN, ST. BERNARD
PARISH, LOUISIANA**



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EXECUTIVE SUMMARY

On behalf of Coastal Protection and Restoration Authority (CPRA), Providence Engineering and Environmental Group LLC (Providence) and Chenier Environmental Consulting, LLC (Chenier) (Project Team) conducted a Phase I Environmental Site Assessment (ESA) and Hazardous, Toxic, and Radioactive Waste (HTRW) Assessment of the 597-acre East Delacroix Marsh Creation and Terracing Project area in Region 2, Breton Basin, St. Bernard Parish, Louisiana (the Property). The Phase I ESA was performed in general conformance with the requirements of the U.S. Environmental Protection Agency (EPA) in the American Society for Testing and Materials (ASTM) Standard practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM E1527-13 and the All Appropriate Inquiry Standard per the Code of Federal Regulations (CFR) at 40 CFR §312, with some exceptions as further described in Section 10.0. This Phase I ESA provides the CPRA with information on potential liability concerns in connection with the Property.

This assessment has revealed no evidence of recognized environmental conditions; or hazardous, toxic, or radioactive wastes, in connection with the Property.

This assessment has revealed the following business environmental risk in connection with the Property:

- The abandoned pipeline identified on a magnetometer survey in the terrace field area on the central portion of the Property does constitute a business environmental risk due to potential impacts from construction equipment, such as dredge and fill equipment, and other large motor vessels during implementation of the marsh creation and terracing project.

1.0 SUMMARY

On behalf of the Coastal Protection and Restoration Authority (CPRA), Providence Engineering and Environmental Group LLC (Providence) and Chenier Environmental Consulting, LLC (Chenier) (Project Team) conducted a Phase I Environmental Site Assessment (ESA) and Hazardous, Toxic, and Radioactive Waste (HTRW) Assessment of the 597-acre East Delacroix Marsh Creation and Terracing Project area in Region 2, Breton Basin, St. Bernard Parish, Louisiana (the Property). A Site Location Map is provided as **Figure 1**. This Phase I ESA report was completed to improve the understanding of the environmental conditions and to detail any continuing obligations, business risks, and any environmental redevelopment considerations specific to the Property.

The Project Team performed the following Phase I ESA in conformance with the requirements of the United States Environmental Protection Agency (EPA) in the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM E1527-13 and the All Appropriate Inquiry (AAI) Standard [40 Code of Federal Regulations (CFR) §312] on the Property.

Based on our review of applicable federal and state regulatory agency records, historical records, interviews with persons knowledgeable about the Property, and site reconnaissance, the Project Team, through this assessment, has identified no evidence of a recognized environmental conditions (RECs) associated with the Property.

2.0 INTRODUCTION

2.1 Purpose

This Phase I ESA and HTRW Assessment identifies, to the extent feasible, pursuant to the processes prescribed herein, RECs in connection with the Property in accordance with ASTM Standard Practice E1527-13, which was also used in this report as a guide to comply with Engineer Regulation (ER) 1165-2-132) for the HTRW assessment. The term REC indicates the presence or likely presence of any hazardous substances or petroleum products in, on, or at a Property: (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. The term HTRW is defined as "Except for dredged material and sediments beneath navigable waters proposed for dredging, for purposes of this guidance, HTRW includes any material listed as 'hazardous substance' under the Comprehensive Environmental Response, Compensation and Liability Act, 42 U.S.C. 9601 et seq (CERCLA). (See 42 U.S.C. 9601(14).) Hazardous substances regulated under CERCLA include 'hazardous wastes' under Sec. 3001 of the Resource Conservation and Recovery Act, 42 U.S.C. 6921 et seq; 'hazardous substances' identified under Section 311 of the Clean Air Act, 33 U.S.C. 1321, 'toxic pollutants' designated under Section 307 of the Clean Water Act, 33 U.S.C. 1317, 'hazardous air pollutants' designated under Section 112 of the Clean Air Act 42 U.S.C. 7412; and 'imminently hazardous chemical substances or mixtures' on which EPA has taken action under Section 7 of the Toxic Substance Control Act, 15 U.S.C. 2606; these do not include petroleum or natural gas unless already included in the above categories. (See 42 U.S.C. 9601(14).)" RECs identified in this report will include any HTRW identified associated with the Property. A Phase I ESA reflects all appropriate inquiry into the previous ownership and uses of the Property consistent with good

commercial or customary practice to satisfy one of the requirements to qualify for the innocent landowner defense under the CERCLA. This Phase I ESA considers business environmental risk. Business environmental risk is defined as a risk which can have a material environmental or environmentally-driven financial impact on the business associated with the current or planned use of a parcel of commercial real estate, not necessarily limited to those environmental issues required to be investigated in ASTM Standard Practice E1527-13.

2.2 Detailed Scope of Services

The Project Team developed a scope of services consistent with ASTM Standard Practice E1527-13. The scope included a records review of state and federal regulatory agency databases that house environmental information relative to discerning the presence or absence of RECs. This review of records also included: (1) historical aerial photography; (2) soil survey information; (3) registered oil and gas well and pipeline data; (4) water well data; (5) United States Geological Survey (USGS) 7.5-minute topographic maps; (6) historical city directories; and (7) fire insurance maps. The Project Team interviewed personnel associated with the Property and personnel from the appropriate state regulatory agency relative to the environmental history of the Property. Additionally, the Project Team conducted a site reconnaissance of the Property and adjoining properties to identify potential areas of environmental concern ranging from mismanagement of hazardous substances to evidence of spills and/or contamination and to confirm information obtained from interviews and records reviews. Lastly, the Project Team prepared this report detailing the data discovered relative to the Property that would provide an opinion of the findings and conclusions relative to any future course of action.

2.3 Reliance

This report was prepared for, and made available for the use of, the CPRA and/or their assignees. The contents herein may not be used or relied upon by any other person or entity without the express written consent and authorization of the Project Team; however, the Project Team can provide Reliance Letters allowing for such authorizations if required. Upon issuance of such Reliance Letters, all aspects of ASTM E1527-13 Continued Viability would need to be fulfilled by any subsequent user of this Phase I ESA and the subsequent user's designated Environmental Professional. This Phase I ESA is presumed to be valid and may be relied upon for one year from the start of the assessment, or until June 3, 2021.

If CPRA and/or their assignees do not begin operations at the Property within 180 days of the start of the assessment (after November 30, 2020), the following components of this Phase I ESA must be updated:

- Interviews with owners, operators, and occupants
- Searches for recorded environmental cleanup liens
- Reviews of federal, tribal, state, and local government records
- Visual inspections of the Property and of adjoining properties
- Declaration by the Environmental Professional responsible for the assessment or update as stated in Section 12.13 of ASTM E1527-13

If it is required that this Phase I ESA be relied upon by a user other than the CPRA, and/or their assignees, and this reliance is required after 180 days of the start of this assessment (after November 30, 2020), in addition to satisfying the User's Responsibilities as stated in Section 6 of ASTM E1527-13, the above-listed components of this Phase I ESA must also be updated.

2.4 Special Terms and Conditions

The findings and conclusions of this report are not scientific certainties, but rather probabilities based on professional judgment concerning the significance of the data gathered during the assessment. The Project Team was unable to verify that the Property or adjoining land contains no hazardous substances, petroleum products, or other latent conditions beyond that observed during the assessment and review. The possibility always exists for contaminants to migrate through surface water, air, soil, or groundwater from various potential sources. The ability to accurately address the environmental risks associated with transport in these media was beyond the scope of this assessment. The opinions expressed by the Project Team with reference to the Property only pertain to the conditions that existed at the Property during the time in which the site reconnaissance was conducted and through the review of historical aerial photographs, historical topographic maps, environmental reports, and interviews.

3.0 SITE DESCRIPTION

3.1 Location

The Property consists of a 597 acres of marshland east of Bayou Lery and Delacroix Highway and north of Bayou Terre aux Boeufs, as described in the provided Coastal Wetlands Planning Protection and Restoration Act (CWPPRA) BS-0038 Fact Sheet (provided in **Appendix A**), in Region 2, Breton Basin, St. Bernard Parish, Louisiana. The location of the Property is shown in **Figure 1**, and a Site Diagram is provided as **Figure 2**.

3.2 Current Use of the Property

The Property consists of undeveloped marshland that is being proposed for marsh creation and nourishment and the construction of earthen terraces to help protect the community of Delacroix.

3.3 Current Uses of Adjoining Properties

The Property is in a mixed residential, commercial, industrial, and recreational setting. The surrounding area is primarily used for oil and gas operations and commercial and recreational fishing. Uses of the adjoining and immediately surrounding properties are discussed in **Table 3.3**.

Table 3.3 – Adjoining Property Use Summary

Property	Use Description
North	Delacroix Highway, Lake Lery, and Bayou Juanita interspersed with marshland and access canals.
South	Delacroix Highway, residential, commercial, and recreational structures and boating vessels, and Bayou Terre aux Boeufs followed by Bayou Gentilly interspersed with marshland and access canals.
East	Bayou Grosbec interspersed with marshland and access canals.
West	Residential, commercial, and recreational structures and boating vessels, Delacroix Highway, Bayou Terre aux Boeufs, and Bayou Lery followed by Lake Lery and Lost Lake interspersed with marshland and access canals.

4.0 SUPPORT DOCUMENTATION

4.1 Environmental Liens and Activity and Use Limitations

No environmental liens, engineering controls, institutional controls, or land use restrictions associated with the Property were identified based on the completed User Questionnaire (see **Appendix A**).

The Project Team's scope of work for this investigation did not include obtaining and reviewing recorded land title information for environmental liens and activity and use limitations (AULs) recorded against or relating to the Property. Therefore, the CPRA, as a User of the Phase I ESA, should engage a title company, real estate attorney, or title professional to undertake a review of such records for environmental liens and AULs recorded against or relating to the Property per the User responsibilities per ASTM E1527-13 Section 6.

4.2 Specialized Knowledge

The CPRA provided the Project Team with a Project Fact Sheet that the Property is associated with. The Project Fact Sheet described the location of the project, project background, and project goals, and is provided in **Appendix A**. No other specialized knowledge or prior reports were provided or identified.

4.3 Owner, Property Manager, and Occupant Information

According to the CPRA, the Property is owned by several private landowners. The Property is undeveloped and unoccupied marshland.

4.4 Reason for Conducting the Phase I ESA

The Project Team conducted this Phase I ESA to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bonafide prospective purchaser limitations as described in ASTM E1527-13; to serve as an AAI in accordance with 40 CFR §312; to define potential sources or potential presence of any hazardous substance, pollutants and contaminants, petroleum and petroleum products, and controlled substances that are used, stored, treated, or disposed of at the Property and adjoining properties that

may complicate the expansion, redevelopment, and reuse of the Property; and, to define any continuing or threatened future releases of hazardous substances at the Property.

4.5 User Questionnaire

A User Questionnaire was submitted to the User (CPRA) in accordance with the ASTM E1527-13 standard. Ms. Jessica Diez and the CPRA Environmental team working on this project completed the User Questionnaire to the best of their knowledge. The CPRA Team stated in the questionnaire that data from a magnetometer survey identified an abandoned pipeline in the proposed terrace field area on the central portion of the Property (see **Figure 2**) that was not previously found in the Louisiana Department of Natural Resources' (LDNR's) Strategic Online Natural Resources Information System (SONRIS) database. The CPRA Team had no knowledge of any liens, AULs, or any other environmental conditions on the Property. The User Questionnaire is included in **Appendix A** and further detail provided in the questionnaire can be found in Section 7.0.

5.0 RECORDS REVIEW

5.1 Standard Environmental Record Sources

The Project Team contracted GeoSearch to research federal, state, and tribal environmental databases required by ASTM E1527-13 and additional environmental databases for information pertaining to the Property and the surrounding area (other properties within an additional approximate minimum search distance from the Property). A copy of the Database Report is provided as **Appendix B** and includes details concerning each searched database and the approximate minimum search distance for each record. Some findings in the database report are listed on the Property rather than on adjoining and surrounding properties, due to the database report Property boundary being slightly larger than the actual Property boundary. Findings in this report are discussed as they are depicted in **Figure 2**, which shows the accurate Property boundary.

The Database Report also includes Unlocated Sites, which are sites listed in one or more databases that could not be precisely identified due to incomplete address/location information, and, therefore, it is not possible to obtain a full account of these sites. No unlocated sites were listed by GeoSearch.

Listings that warrant further evaluation are discussed in Section 5.1.1 and 5.1.2, as applicable. The Project Team considered the remaining listings in the database findings to unlikely impact the Property based on factors including, but not limited to, the distance from the Property, the nature of the listing, the status of the listing, current and historical uses of the site, and physical setting sources.

5.1.1 *Property*

Site Name:	Historical Unknown Sheen Incident
NRC Report #:	774406
Databases:	ERNSLA
Comments:	GeoSearch identified a historical unknown sheen incident along the southwestern Property boundary (see Figure 2) in the Emergency Response Notification System (ERNSLA) database that occurred on September 16, 2005. A call was placed to the National Response Center (NRC) at 2:00 PM to report an unknown sheen originating from an unknown source. The size of the sheen, type of product, or amount released are unknown. Given the size and location of the sheen, the sheen likely dispersed and naturally dissipated. Based on the historical date and status of the incident, the incident does not represent a REC to the Property.

5.1.2 *Surrounding Properties*

Site Name:	Historical Transcontinental Gas P/L Corp. Facility
AI #:	N/A
Databases:	Waste Pits (WP)
Distance:	Approximately 150 feet
Direction:	Northeast
Comments:	GeoSearch identified an historical oil and gas facility at the end of an oil and gas access canal to the north of the proposed confined disposal marsh creation and nourishment portion of the Property and east of the terrace field portion of the Property (see Figure 2) in the WP database. The pit type was listed as a place where petroleum is processed and/or separated prior to distribution and/or transportation by pipelines or barges. The pit description was listed as a heater. An inspection was conducted on July 29, 1996, and reported the facility as abandoned/inactive. During the oil and gas well search, a natural gas well was identified at this location. The well is reported to have been completed in 1976 and has been plugged and abandoned (see Section 5.4.1 for further well details). During a magnetometer survey, CPRA discovered an abandoned pipeline underlying the central portion of the Property that lead east towards the well (see Sections 4.2 and 7.0 for further details) and is assumed to have been associated with the well and facility. During site

	reconnaissance, the Project Team observed six remnant pilings with connected boards above the water (see Photograph 18 in Appendix G). No other structures, equipment, or evidence of contamination from historical oil and gas equipment was identified. Based on the status of the facility and no evidence of product remaining at the site, the incident does not represent a REC to the Property at this time.
Site Name:	Historical Fishing Vessel Incident
NRC Report #:	260172
Databases:	ERNSLA
Distance:	Approximately 400 feet
Direction:	East
Comments:	GeoSearch identified an historical fishing vessel incident on the eastern surrounding property (see Figure 2) in the ERNSLA database that occurred on September 12, 1994. A call was placed to the NRC at 11:15 AM to report a 50-foot by 2,000-foot rainbow colored sheen originating from a fishing vessel. The fishing vessel number was LA2006-CA, and approximately ten gallons of unknown oil was released. The NRC reported that no remediation was needed. Given the size and location of the sheen, the sheen likely dispersed and naturally dissipated. Based on the historical date and status of the incident, the incident does not represent a REC to the Property.

5.2 Water Wells

A search for water wells, including public water supply wells, United States Geological Survey (USGS) water wells, Louisiana Department of Transportation and Development (LDOTD) registered water wells, and LDNR registered water wells was conducted as part of this report. Public water supply wells supply water to at least 25 people for a minimum of 60 days. USGS water well data includes groundwater data on springs, wells, and other sources of groundwater input into their national water resource information tracking system. LDNR maintains a database of all water wells registered in Louisiana. LDNR's database includes public and private drinking water supply wells, irrigation wells, livestock watering wells, and groundwater monitoring wells.

The registered water well databases show no registered wells on the Property and two registered wells within a one-mile buffer from the Property. The first well is approximately 143 feet to the west of the Property and is listed as an active test hole for Delacroix Water. The test hole depth is 384 feet deep and was completed in August of 1949. The second well is approximately 961 feet to the southwest of the Property and is listed as an abandoned industrial well. The well depth is 400 feet and was completed in 1909. Based on the wells' relative distances from the Property, regulatory status, and/or the uses of the wells, the water

wells do not elicit any environmental liability concerns in connection to the Property. Additional information on the registered water wells is provided in **Appendix C**.

5.3 Physical Setting Sources

The most current USGS 7.5-Minute Series Topographic Maps depicting the Property is the "Delacroix, LA" Topographic Map, dated 2012 (**Figure 1**). The elevation of the Property is approximately zero feet above mean sea level, and site topography is generally flat. The Property is comprised of delta plain and saline marsh with gray to black clay of very high organic content and some peat. The Property is in an area of active and abandoned delta lobes of the Mississippi River.

The Project Team reviewed the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) National Cooperative Soil Survey for the Property. According to the USDA NRCS Soil Survey, the soil types identified on the Property are the Clovelly muck, 0 to 0.2 percent slopes, very frequently flooded and the Lafitte muck, 0 to 0.2 percent slopes, very frequently flooded. The Clovelly muck underlies a large portion of the western and southern portions of the Property, while the Lafitte muck underlies the eastern portion of the Property.

5.4 Historical Use Information on the Property

A chronological summary of the historical use and development of the Property and surrounding area, including environmentally significant events, based on historical Aerial Photographs (**Appendix D**), and historical topographic maps (**Appendix E**) is provided in **Table 5.4**. Sanborn Maps were not available for the Property.

Table 5.4 – Historical Use and Development Summary

Year	Resource	Interpreted Use/Development
Property		
1892-1893	Topographic Maps	Undeveloped marshland.
1935-1944	Topographic Maps	Undeveloped marshland with portions of open water along the southwestern Property boundary.
1951-2017	Topographic Maps and Aerial Photographs	The Property remains undeveloped marshland and continues to convert to open water, with the biggest conversion depicted between 2004 and 2005, subsequent to hurricanes Katrina and Rita.
Adjoining and Surrounding Properties to the North		
1892-1893	Topographic Maps	Bayou Terre Aux Boeuf, Delacroix Highway, and undeveloped marshland.
1935-1973	Topographic Maps and Aerial Photographs	Bayou Terre Aux Boeuf, Delacroix Highway, residential structures, and undeveloped marshland.
1978-1979	Topographic Map and Aerial Photograph	An oil and gas access canal is depicted north of the proposed confined disposal marsh creation

Year	Resource	Interpreted Use/Development
		and nourishment area and east of the proposed terrace field area where a historical oil and gas facility was identified (see Section 5.1.1), however, the facility is not apparent in the historical maps and photographs. The remainder of the northern surrounding property remains the same.
1983-2017	Topographic Maps and Aerial Photographs	An additional oil and gas access canal adjoins the initial access canal and flows southwest to the northeastern boundary of the proposed confined disposal marsh creation and nourishment area. The remainder of the northern surrounding property remains the same.
Adjoining and Surrounding Properties to the East		
1892-1964	Topographic Maps and Aerial Photographs	Undeveloped marshland followed by Bayou Grosbec.
1967	Topographic Map	The property remains undeveloped marshland followed by Bayou Grosbec, and an oil and gas access canal with a drill hole at the end is depicted on the northeastern surrounding property.
1971-2017	Topographic Maps and Aerial Photographs	The property remains undeveloped marshland followed by Bayou Grosbec and appears to convert to more open water, with the most significant conversion depicted between 2004 and the end of 2005, subsequent to hurricanes Katrina and Rita. An oil and gas access canal is depicted adjoining the southeastern Property boundary.
Adjoining and Surrounding Properties to the South		
1892-1893	Topographic Maps	Bayou Terre aux Boeufs followed by Bayou Gentilly and undeveloped marshland.
1935-1964	Topographic Maps and Aerial Photographs	Delacroix Highway, residential structures, and Bayou Terre aux Boeufs followed by Bayou Gentilly and undeveloped marshland.
1965-2019	Topographic Maps and Aerial Photographs	The property remains developed Delacroix Highway and residential structures followed by Bayou Terre aux Boeufs, Bayou Gentilly, and undeveloped marshland. A drill hole is depicted on the 1967 topographic map and what appears to be an oil and gas facility or work area associated with the drill hole is depicted on the 1965 aerial photograph adjoining Bayou Terre aux Boeuf. The facility appears to be inactive in the 1971 aerial photograph.

Year	Resource	Interpreted Use/Development
Adjoining and Surrounding Properties to the West		
1892-1893	Topographic Maps	Bayou Terre Aux Boeufs followed by Bayou Lery, undeveloped marshland, and Lake Lery.
1935-1941	Topographic Maps	Residential, commercial, and/or recreational structures, Delacroix Highway, Bayou Tere aux Boeufs, and Bayou Lery followed by Lake Lery and Lost Lake interspersed with marshland and access canals.
1942-2017	Topographic Maps and Aerial Photographs	The property remains developed with Residential, commercial and/or recreational structures, Delacroix Highway, Bayou Tere aux Boeufs, and Bayou Lery followed by Lake Lery and Lost Lake interspersed with marshland and access canals. Oil and gas operations begin in the late 1930s and early 1940s as depicted on the topographic maps. Additionally, two access canals leading to drill holes adjoining the western side of Bayou Terre aux Boeufs followed by a pipeline canal are depicted.

5.4.1 Oil and/or Gas Production Well and Pipeline Search

The Project Team reviewed LDNR's SONRIS, an online database that stores information on oil, gas, and groundwater wells, to assess the presence or absence of oil and/or gas production wells on the Property.

No oil and/or gas wells were identified on the Property, and eleven oil and/or gas wells were identified within a one-mile buffer of the Property. One identified well on the northeastern surrounding property appears to have been associated with the historical Transcontinental Gas P/L Corporation. Facility discussed in Section 5.1.2. The well is a plugged and abandoned natural gas well that was completed in 1976 and operated by Equitable Petroleum Corporation. During the site reconnaissance, no visible contamination, odors, or remaining product were identified. Another well was identified adjoining the northeastern boundary of the proposed marsh creation and nourishment area, on the eastern side of the Property. The well was depicted at the end of an access canal adjoining the access canal associated with the first identified well. The well was completed in 1981, and the well type and status are unknown. During the site reconnaissance, no well structures or markers and no visible contamination, odors, or remaining product were identified in the location of this historical well. Based on the status of the historical wells and conditions of the Property around their locations, the wells on the Property do not represent evidence of a REC at this time. Based on the location and/or status of the remaining wells on surrounding properties, they do not elicit environmental concern to the Property. Additional information on the registered oil and gas wells is provided in **Appendix C**.

A review of the United States Department of Transportation (USDOT) Pipeline and Hazardous Materials Safety Administration (PHMSA) National Pipeline Mapping System (NPMS) did not identify gas transmission or hazardous liquid pipelines in the vicinity of the Property. However, an abandoned pipeline was identified on the Property during a magnetometer survey. Please see Sections 4.5 and 7.0 for further details.

5.4.2 LDEQ Database Search

The Project Team performed a search of the Louisiana Department of Environmental Quality's (LDEQ's) Electronic Document Management System (EDMS) to determine if the Property or surrounding properties had past or current compliance or enforcement actions on file with LDEQ.

No files related to the Property were identified. Sites identified on surrounding properties were considered unlikely to impact the Property based on factors including, but not limited to, the distance from the Property, the nature of the listing, the status of the listing, current and historical uses of the site, and physical setting sources.

5.4.3 City Directories Search

The Project Team researched local business directories, including city and telephone directories, as available, at the approximate five-year intervals. The search identified the Delacroix Highway as the target street, which lies west of the Property. A copy of the City Directories provided by GeoSearch is in **Appendix F**.

The Property was not listed on any of the City Directories. Listing for surrounding properties consisted mostly of residential and some commercial. Based on their nature and/or separation distances from the Property, these listings do not elicit environmental liability concerns to the Property.

5.5 Vapor Encroachment Analysis

Vapor Encroachment is the presence or likely presence of vapors from chemicals of concern in the subsurface of the Property caused by the release of vapors on or near the Property. The Project Team evaluated the Property and adjoining properties for the potential for vapor encroachment to occur. No Vapor Encroachment Conditions (VECs) were identified in connection to the Property.

6.0 SITE RECONNAISSANCE

The Project Team conducted a site reconnaissance of the Property on June 16, 2020, to observe whether any visible areas of environmental concern were evident on the Property. Photographs of the Property taken during the site visit are included in **Appendix G (Photographs 1 through 20)**.

6.1 Methodology and Limiting Conditions

The Property was traversed via airboat. Observations of the Property and surrounding properties were made from the airboat, as well as overhead observations from a drone controlled from the airboat.

6.2 General Site Setting

The Property is currently undeveloped marshland. The Property and adjoining properties are shown on the Site Diagram, which is included as **Figure 2**.

6.3 Site Observations

Photographs taken during the June 16, 2020; site reconnaissance are provided in **Appendix G**. Notable observations are described below:

Item	Observed
ASTs (contents/size/containment)	
Emergency Generators (fuel tanks)	
USTs/Piping/Vents/ Fuel Islands	
Patched pavement	
Vent Pipes/Grates/Stacks	
Strong, pungent, noxious odors	
Pools of liquid	
Surface Water / Bodies (discoloration/sheen)	
Pits/Depressions	
Drums, containers >5 gallons	
MSDS (location, contents)	
Transformer/Electrical Equipment	
Hydraulic equipment	
Heating/Cooling System (type/service)	
Stained Soil / Pavement / Floor	
Floor Drains (discharge to where)	
Sumps, cisterns, catch basins	
Stressed Vegetation	
Trash dumpsters/piles/compactors	
Dumping (debris/dirt/materials)	X
Evidence of Fill/ Dirt Piles	
Incinerators / Burning Barrels / Vents	
Wastewater Treatment Systems (type/chemicals/discharge/service)	
Septic tank/Leach field/Ponds	
Oil/water separators (size/service)	
Grease Traps (size/service)	
Leachate/Waste Seeps	
Effluent/Exterior Pipe Discharge	
Water Wells (type/depth/service)	
Pipeline evidence (markers, etc.)	X
Other Processes/Equipment (photo- Processing, drycleaning, etc.)	

Dumping (debris/dirt/materials)

Remnants of a refrigerated trailer were identified approximately 500 feet east of the Property along an oil and gas access canal (**Photograph 20**). No refrigerant or any other contamination associated with the trailer was observed. Based on this information and the separation distance from the Property, the refrigerated trailer on the eastern surrounding property does not represent a REC in connection to the Property at this time.

Pipeline evidence (markers, etc.)

Pipeline markers were identified overlying the eastern side of the abandoned pipeline discovered on the central portion of the Property during a magnetometer survey (see **Photograph 19** and Section 7.0 for further details).

7.0 INTERVIEWS

Ms. Jessica Diez and the CPRA Environmental Team completed the User Questionnaire to the best of their knowledge. The CPRA team stated that Delacroix Corporation, the owner of the Property, is highly sensitive to access of the Property during alligator egg season (May through July) and duck hunting season (November through January). Additionally, the CPRA Team disclosed that a magnetometer survey, discovered by a CPRA data collection contractor, identified an abandoned pipeline in the terrace field area on the central portion of the Property that was not previously identified in the LDNR SONRIS database (see **Figure 2**). Due to potential impacts to the pipeline from construction equipment, such as dredge and fill equipment, and other large motor vessels that may be used during the implementation of the marsh creation and terracing project on the Property, the abandoned pipeline is considered a business environmental risk. The abandoned pipeline and immediate surrounding area should be avoided by construction equipment and large motor vessels during the implementation of the project. The CPRA Team had no knowledge of any liens, AULs, or any other environmental conditions on the Property. No environmental concerns were identified from the information provided by the CPRA Team. Additionally, CPRA provided a Fact Sheet with information regarding the Property and associated marsh creation and terracing project. The completed Questionnaire and Fact Sheet are provided in **Appendix A**.

Mr. Phillip Mones, one of the landowners of the Property, was contacted on June 10, 2020 to coordinate access prior to the site reconnaissance. Mr. Mones stated that no oil or gas wells have been drilled on the Property but confirmed that a pipeline crosses the northern part of the Property. He was not aware of any environmental issues involving hazardous materials or petroleum products.

8.0 FINDINGS

This assessment has revealed the following significant findings in association with the Property within the specified search radius:

Property

- An abandoned pipeline, which was not previously identified in the LDNR SONRIS database, was identified in the terrace field area on the central portion of the Property during a magnetometer survey.

- An unknown sheen was identified along the southwestern Property boundary in 2004. The incident required no remediation and is closed.

Surrounding Property

- An historical natural gas well and facility was identified to the north of the proposed confined disposal marsh creation and nourishment portion of the Property and east of the terrace field portion of the Property, and remnant pilings with connected boards above the water remain. The abandoned pipeline discovered on the Property appears to have been associated with the facility.
- An historical oil and/or gas well completed in 1981 with an unknown well type and status was identified adjoining the northeastern boundary of the proposed marsh confined disposal marsh creation and nourishment area at the end of an oil and gas access canal.
- A fishing vessel released oil into the water creating a sheen in 1994 on an eastern surrounding property. The incident required no remediation and is closed.
- Remnants of a refrigerated trailer were identified approximately 500 feet east of the Property along an oil and gas access canal.

9.0 OPINION

The Project Team, through this Phase I ESA process, identified no evidence of known or suspected RECs associated with the Property.

A REC indicates the presence or likely presence of hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the Property or into the ground, groundwater, or surface water of the property. A controlled recognized environmental condition (CREC) is a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority [for example, as evidenced by the issuance of a No Further Action (NFA) letter or equivalent, or meeting risk-based criteria established by regulatory authority], with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls. A historical recognized environmental condition (HREC) means a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority without subjecting the property to any required controls. RECs, CRECs, or HRECs are not intended to include *de minimis* conditions that generally do not present a material risk or harm to public health or the environment and would not likely be the subject of an enforcement action if discovered by the appropriate regulatory authority.

9.1 *De Minimis* Conditions

- No *De minimis* conditions were identified in association with the Property.

9.2 RECs

- No RECs were identified in association with the Property.

9.3 CRECs

- No CRECs were identified in association with the Property.

9.4 HRECs

- No HRECs were identified in association with the Property.

9.5 Findings Not Eliciting Environmental Liability Concerns

The following findings do not represent evidence of a REC in connection to the Property based on the nature of the finding, no evidence of a release or spills of hazardous substances or petroleum hydrocarbons, and/or the separation distance from the Property:

- An unknown sheen was identified along the southwestern Property boundary in 2004. The incident required no remediation and is closed.
- A historical natural gas well and facility was identified to the north of the proposed confined disposal marsh creation and nourishment portion of the Property and east of the terrace field portion of the Property, and remnant pilings with connected boards above the water remain. The abandoned pipeline discovered on the Property appears to have been associated with the facility.
- A historical oil and/or gas well completed in 1981 with an unknown well type and status was identified adjoining the northeastern boundary of the proposed marsh confined disposal marsh creation and nourishment area at the end of an oil and gas access canal.
- A fishing vessel released oil into the water creating a sheen in 1994 on an eastern surrounding property. The incident required no remediation and is closed.
- Remnants of a refrigerated trailer were identified approximately 500 feet east of the Property along an oil and gas access canal.

9.6 Business Environmental Risk

- The abandoned pipeline identified on a magnetometer survey on the Property does constitute a business environmental risk due to potential impacts from construction equipment, such as dredge and fill equipment, and other large motor vessels during implementation of the marsh creation and terracing project.

10.0 DATA GAPS AND DATA FAILURES

Historical information on the Property was available from 1892 (Topographic Maps) to 2017 (Aerial Photographs). Data gaps of greater than five years exist from 1892-1935, 1935 to 1941, 1942 to 1951, 1956 to 1965, 1972 to 1978, 1983 to 1989, 1989 to 1998, and 1998 to 2004. These data gaps, however, do not constitute a data failure, as significant changes in land use or conditions did not appear to occur during these periods.

11.0 CONCLUSIONS

11.1 ASTM Standard Practice E 1527-13 Conclusions

The Project Team has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-13 of the 597-acre East Delacroix Marsh Creation and Terracing project area in Region 2, Breton Basin, St. Bernard Parish, Louisiana, the Property. Any exceptions to, or deletions from, this practice are described in Sections 10.0 and 12.0 of this report. This assessment has revealed no evidence of RECs in connection with the Property.

11.2 Recommended Additional Investigation

No further investigation is recommended.

12.0 DEVIATIONS

The Project Team conducted this Phase I ESA in conformance with the scope of ASTM Standard Practice E1527-13, with no noted deviations except as identified in Section 10.0.

13.0 REFERENCES

The following references were used in support of this Phase I ESA:

Table 13.0 – References

Source Type	Years Reviewed	Source
USGS Topo Maps	1892, 1935, 1941, 1942, 1951, 1955, 1967, 1969, 1972, 1979, 1983, and 2012	USGS, GeoSearch
Aerial Photographs	1952, 1956, 1965, 1971, 1978, 1983, 1989, 1998, 2004, 2005, 2007, 2009, 2010, 2013, 2015, and 2017	GeoSearch
City Directories	2002, 2008, 2014, and 2019	GeoSearch
Sanborn Maps	No Coverage	GeoSearch
LDNR's SONRIS	N/A	http://www.sonris.com/
LDEQ's EDMS	N/A	http://edms.deq.louisiana.gov/app/doc/querydef.aspx
USDA NRCS Soil Survey	N/A	http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx

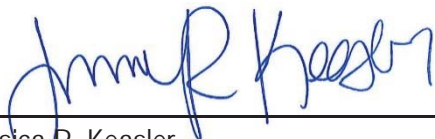
14.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

We declare that, to the best of our professional knowledge and belief, we meet the definition of an Environmental Professional as defined in §312.10 of 40 CFR §312. We have the specific qualifications based on education, training, and experience to assess a Property of the nature, history, and setting of the Property. We have developed and performed all the appropriate inquiries in conformance with the standards and practices set forth in 40 CFR §312.

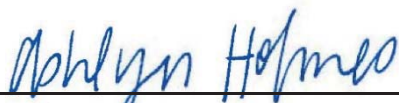
Jessica Keasler is an Environmental Professional with over 13 years of experience in the environmental industry and has performed and reviewed numerous Phase I ESAs. She has a Bachelor of Science Degree in Environmental Sciences and a Master of Science Degree in Environmental Studies.

Ashlyn Holmes is an Environmental Professional with five years of experience conducting Phase I ESAs. She has a Bachelor of Science Degree in Renewable Natural Resources.

15.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

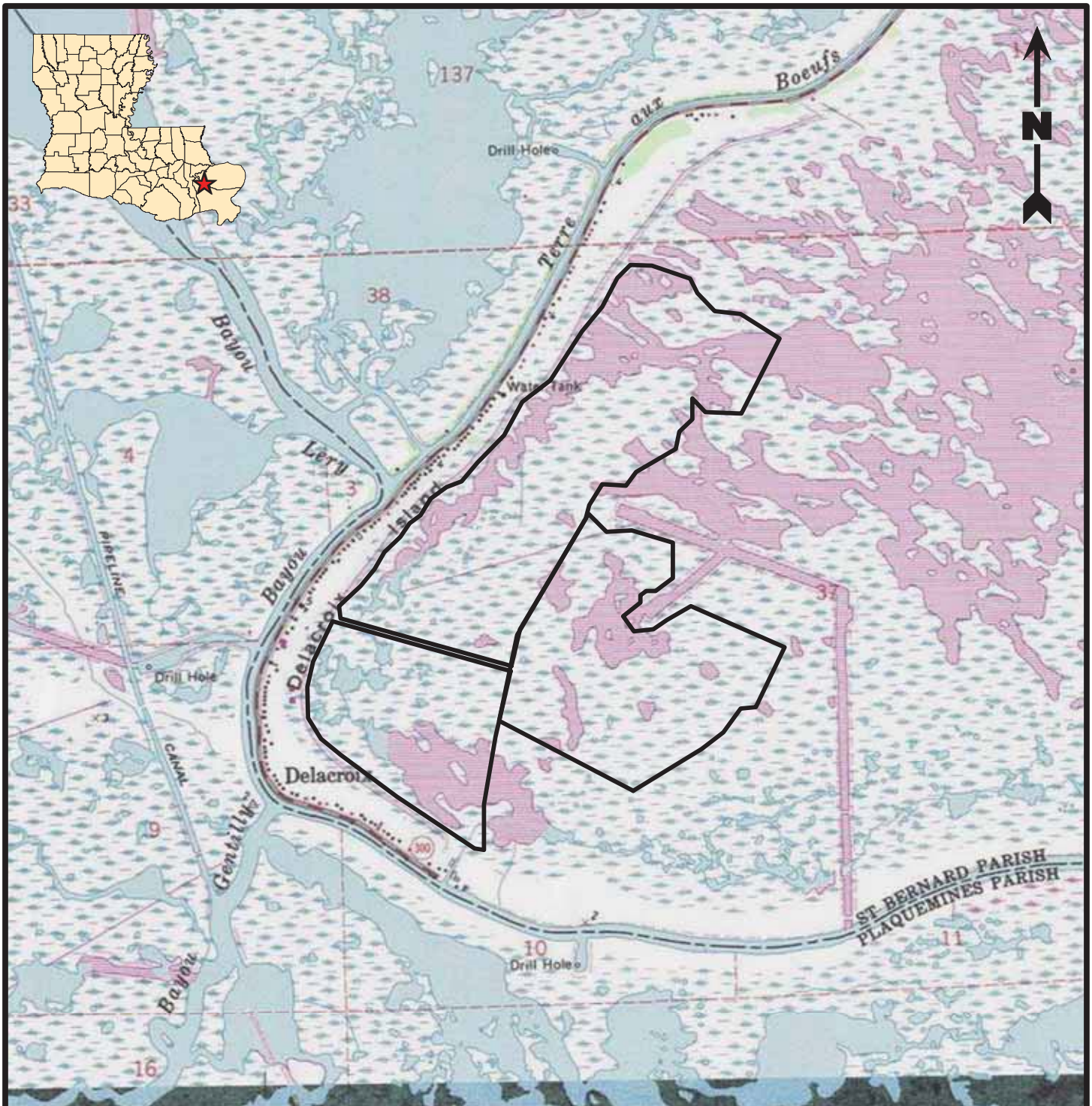


Jessica R. Keasler
Site Evaluation and Remediation Services Director



Ashlyn Holmes
Environmental Scientist

FIGURE 1
SITE LOCATION MAP



2,000 1,000 0 2,000
Feet

Legend

 Project Area (597 Acres)

Reference

Base map comprised of United States Geological Survey (USGS) 7.5-minute topographic map, "Delacroix, LA".

Site Location Map

Phase I Environmental Site Assessment and Hazardous, Toxic, and Radioactive Waste Assessment

Breton Basin, St. Bernard Parish, Louisiana

Coastal Protection and Restoration Authority

BS-0037 East Delacroix Marsh Creation and Terracing Project



PROVIDENCE

Drawn By	TDJ	7/7/2020
Checked By	AH	7/7/2020
Approved By	RPC	7/7/2020

Project Number
621-012

Drawing Number
621-012-A001

1

Figure

FIGURE 2
SITE DIAGRAM



1,500 750 0 1,500
Feet

Legend

- Project Area (597 Acres)
- Confined Disposal Marsh Creation & Nourishment
- Terrace Field
- Abandoned Pipeline
- Points of Interest

Reference

Base map comprised of ESRI's World Imagery exported 6/25/20.

Site Diagram

Phase I Environmental Site Assessment and Hazardous, Toxic, and Radioactive Waste Assessment
Breton Basin, St. Bernard Parish, Louisiana

Coastal Protection and Restoration Authority
BS-0037 East Delacroix Marsh Creation and Terracing Project



PROVIDENCE

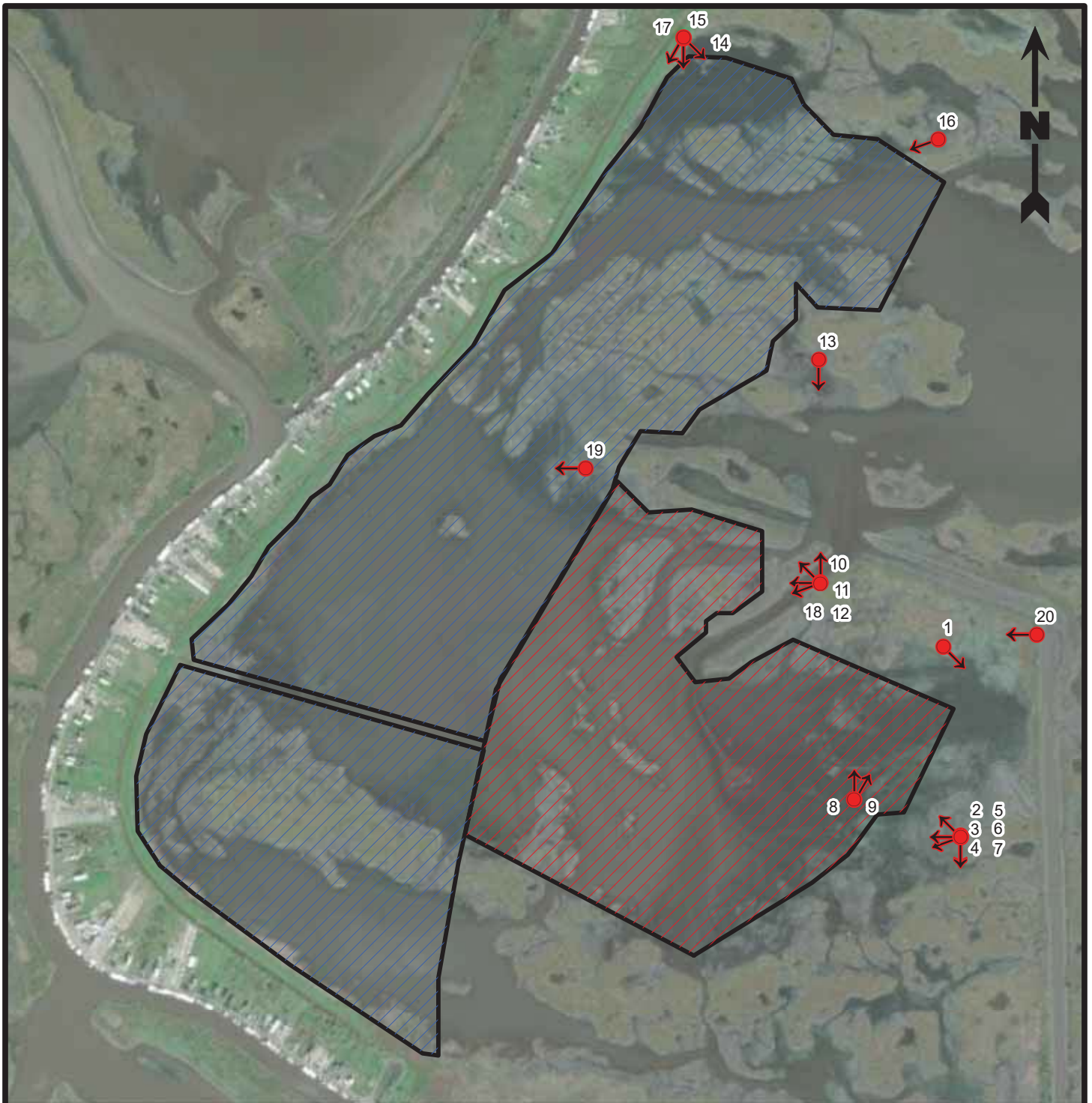
Drawn By	TDJ	7/7/2020
Checked By	AH	7/7/2020
Approved By	RPC	7/7/2020

Project Number
621-012

Drawing Number
621-012-A002

2
Figure

FIGURE 3
PHOTO KEY



1,200 600 0 1,200
Feet

Legend

- Project Area (597 Acres)
- Confined Disposal Marsh Creation & Nourishment
- Terrace Field
- Photo Location
- Photo Direction

Reference

Base map comprised of ESRI's World Imagery exported 6/25/20.

Photo Key

Phase I Environmental Site Assessment and Hazardous, Toxic, and Radioactive Waste Assessment
Breton Basin, St. Bernard Parish, Louisiana

Coastal Protection and Restoration Authority
BS-0037 East Delacroix Marsh Creation and Terracing Project



PROVIDENCE

Drawn By	TDJ	7/14/2020
Checked By	AH	7/14/2020
Approved By	RPC	7/14/2020

Project Number 621-012	3 Figure
Drawing Number 621-012-A003	

APPENDIX A

INTERVIEW DOCUMENTATION

EAST DELACROIX MARSH CREATION AND TERRACING (BS-37)

PHASE I ENVIRONMENTAL SITE ASSESSMENT USER QUESTIONNAIRE

DATE OF COMPLETION: 6/26/2020

USER/USER REPRESENTATIVE NAME/ RELATION: Jessica Diez, Project Manager

ADDRESS: 150 Terrace Ave. Baton Rouge LA 70806
STREET CITY STATE ZIP

PHONE: 225-342-1477 EMAIL: jessica.diez@la.gov

QUESTIONNAIRE:

1. Are there any environmental liens filed or recorded against the subject property? (Y/N) If yes, please explain.
None known.
2. Are there any activity and use limitations that are in place on the subject property or that have been filed or recorded against the subject property? (Y/N) If yes, please explain.
The Mones family has requested that notification be given prior to any survey work being done on their property. Contacts are: Pamela Mones: 504-324-7947, Phillip Mones: 504-912-6915, Jason Mones: 504-258-7287. Delacroix Corp. must be contacted before accessing property owned by Coastal Corp. Please contact Mike Farizo, Land Manager for Delacroix Corp at: 504-583-8192. Please notify all mentioned landowners at least 48 hours in advance.
3. Do you have any specialized knowledge or experience related to the subject property or nearby properties? (Y/N) If yes, please explain.
Delacroix Corp. is highly sensitive to access of their property during alligator egg season (May-July) and duck hunting season (November - January). Please notify Delacroix Corp. using the above contact information before entering their property. CPRA has contracted out data collection collection for bathymetric, topographic and magnetometer surveys and cultural resource investigations in the project area. Magnetometer surveys showed an abandoned pipeline in the marsh creation area that was not previously found in the SONRIS database. The site has been visited on several occasions by NOAA staff, but aside from the functionality of the marsh and general observations, we have no other specialized knowledge.
4. Are you aware of commonly known or reasonably ascertainable information about the subject property that would help the environmental professional identify conditions indicative of releases or threatened releases? (Y/N) If yes, please explain.
None known.
5. Does the purchase price reasonably reflect the fair market value of the property? If not, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? (Y/N)
N/A
6. 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 releases at the property?(Y/N)
None known



East Delacroix Marsh Creation and Terracing (BS-37)

Project Status

Approved Date: 2019 **Project Area:** 597 acres
Approved Funds: \$3.64 M **Total Est. Cost:** \$39.8 M
Net Benefit After 20 Years: 314 acres
Status: Engineering and Design
Project Type: Marsh Creation
PPL #: 28

Location

This project is located in Region 2, Breton Basin, St. Bernard Parish.

Problems

Hurricanes Katrina and Rita caused the majority of wetland loss in the project area. Wind erosion and saltwater intrusion have resulted in loss of marsh vegetation and wetland soils. Marsh loss has increased exposure of Delacroix to flooding from the east/southeast. The 1984 to 2018 USGS loss rate is -1.58%/yr for the extended project boundary area.



Drone image of the marsh creation area facing northeast.

Restoration Strategy

The project goal is to create and nourish approximately 406 acres of marsh and construct approximately 12,950 linear feet of terraces (approximately 8 acres) utilizing a layout to help protect the community of Delacroix.

Sediment would be hydraulically dredged from Lake Lery and placed in two confined disposal areas creating 353 acres of marsh and nourishing 53 acres of existing marsh. Two creation cells allow a channel for the existing pump station. Approximately 12,950 ft of earthen terraces would be constructed. The side and crown of the terraces would be planted with appropriate bare root plants in one row per side and crown.

Two additional areas of deteriorating marsh south and east of the proposed project will be investigated should the project be considered for further evaluation. Therefore, data acquisition for Engineering & Design will include an additional 114 acres to allow flexibility for analysis of these alternate features.

Progress to Date

This project was approved for Phase I Engineering and Design in February 2019.

The project is on Priority Project List (PPL) 28.

For more information, please contact:






Federal Sponsor:
National Marine Fisheries Service
Baton Rouge, LA
(225) 389-0508



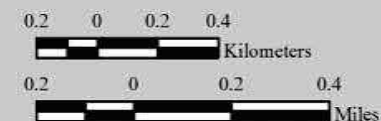
Local Sponsor:
Coastal Protection and Restoration Authority
Baton Rouge, LA
(225) 342-4733



East Delacroix Island Marsh Creation (BS-37)

-  Terrace Field *
 -  Confined Disposal Marsh
Creation & Nourishment *
 -  Project Boundary
- *denotes proposed features

USGS
science for a changing world



Map Produced by:
U.S. Department of the Interior
U.S. Geological Survey
Wetland and Aquatic Research Center
Coastal and Ocean Restoration Branch
Baton Rouge, La.

Background Imagery:
2017 NAIP Photography

Map Date: February 20, 2019
Map ID: USGS-NWRC 2019-11-0008
Data accurate as of: February 14, 2019

APPENDIX B

GEOSEARCH REGULATORY DATABASE REPORT

E RecSearch Report

[GeoLens by GeoSearch](#)

Target Property:
East Delacroix Marsh Creation and Terracing
Parish, Louisiana

Prepared For:
Providence Engineering-Baton Rouge

Order #: 147751
Job #: 355228
Project #: 621-012
Date: 06/03/2020

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Unlocatable Report	See Attachment
Zip Report	See Attachment

Disclaimer

This report was designed by GeoSearch to meet or exceed the records search requirements of the All Appropriate Inquiries Rule (40 CFR 312.26) and the current version of the ASTM International E1527, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process or, if applicable, the custom requirements requested by the entity that ordered this report. The records and databases of records used to compile this report were collected from various federal, state and local governmental entities. It is the goal of GeoSearch to meet or exceed the 40 CFR 312.26 and E1527 requirements for updating records by using the best available technology. GeoSearch contacts the appropriate governmental entities on a recurring basis. Depending on the frequency with which a record source or database of records is updated by the governmental entity, the data used to prepare this report may be updated monthly, quarterly, semi-annually, or annually.

The information provided in this report was obtained from a variety of public sources. GeoSearch cannot ensure and makes no warranty or representation as to the accuracy, reliability, quality, errors occurring from data conversion or the customer's interpretation of this report. This report was made by GeoSearch for exclusive use by its clients only. Therefore, this report may not contain sufficient information for other purposes or parties. GeoSearch and its partners, employees, officers And independent contractors cannot be held liable For actual, incidental, consequential, special or exemplary damages suffered by a customer resulting directly or indirectly from any information provided by GeoSearch.

Target Property Summary

Target Property Information

East Delacroix Marsh Creation and Terracing
Louisiana

Coordinates
Area centroid (-89.775009, 29.7701345)
0 feet above sea level

USGS Quadrangle
Delacroix, LA

Geographic Coverage Information

County/Parish: St. Bernard (LA) , Plaquemines (LA)
ZipCode(s):
Braithwaite LA: 70040
Saint Bernard LA: 70085

Database Summary

FEDERAL LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
EMERGENCY RESPONSE NOTIFICATION SYSTEM	ERNSLA	2	0	TP/AP
FEDERAL ENGINEERING INSTITUTIONAL CONTROL SITES	EC	0	0	TP/AP
LAND USE CONTROL INFORMATION SYSTEM	LUCIS	0	0	TP/AP
RCRA SITES WITH CONTROLS	RCRASC	0	0	TP/AP
RESOURCE CONSERVATION & RECOVERY ACT - GENERATOR	RCRAGR06	0	0	0.1250
RESOURCE CONSERVATION & RECOVERY ACT - NON-GENERATOR	RCRANGR06	0	0	0.1250
BROWNFIELDS MANAGEMENT SYSTEM	BF	0	0	0.5000
DELISTED NATIONAL PRIORITIES LIST	DNPL	0	0	0.5000
NO LONGER REGULATED RCRA NON-CORRACTS TSD FACILITIES	NLRRCRAT	0	0	0.5000
RESOURCE CONSERVATION & RECOVERY ACT - NON-CORRACTS TREATMENT, STORAGE & DISPOSAL FACILITIES	RCRAT	0	0	0.5000
SUPERFUND ENTERPRISE MANAGEMENT SYSTEM	SEMS	0	0	0.5000
SUPERFUND ENTERPRISE MANAGEMENT SYSTEM ARCHIVED SITE INVENTORY	SEMSARCH	0	0	0.5000
NATIONAL PRIORITIES LIST	NPL	0	0	1.0000
NO LONGER REGULATED RCRA CORRECTIVE ACTION FACILITIES	NLRRCRAC	0	0	1.0000
PROPOSED NATIONAL PRIORITIES LIST	PNPL	0	0	1.0000
RESOURCE CONSERVATION & RECOVERY ACT - CORRECTIVE ACTION FACILITIES	RCRAC	0	0	1.0000
RESOURCE CONSERVATION & RECOVERY ACT - SUBJECT TO CORRECTIVE ACTION FACILITIES	RCRASUBC	0	0	1.0000
SUB-TOTAL		2	0	

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
AEROMETRIC INFORMATION RETRIEVAL SYSTEM / AIR FACILITY SUBSYSTEM	AIRSAFS	0	0	TP/AP
BIENNIAL REPORTING SYSTEM	BRS	0	0	TP/AP
CERCLIS LIENS	SFLIENS	0	0	TP/AP
CLANDESTINE DRUG LABORATORY LOCATIONS	CDL	0	0	TP/AP
EPA DOCKET DATA	DOCKETS	0	0	TP/AP
ENFORCEMENT AND COMPLIANCE HISTORY INFORMATION	ECHOR06	0	0	TP/AP
FACILITY REGISTRY SYSTEM	FRSLA	0	0	TP/AP

Database Summary

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
HAZARDOUS MATERIALS INCIDENT REPORTING SYSTEM	HMIRSR06	0	0	TP/AP
HAZARDOUS WASTE COMPLIANCE DOCKET FACILITIES	HWCD	0	0	TP/AP
INTEGRATED COMPLIANCE INFORMATION SYSTEM (FORMERLY DOCKETS)	ICIS	0	0	TP/AP
INTEGRATED COMPLIANCE INFORMATION SYSTEM NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	ICISNPDES	0	0	TP/AP
MATERIAL LICENSING TRACKING SYSTEM	MLTS	0	0	TP/AP
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	NPDES06	0	0	TP/AP
PCB ACTIVITY DATABASE SYSTEM	PADS	0	0	TP/AP
PERMIT COMPLIANCE SYSTEM	PCSR06	0	0	TP/AP
SEMS LIEN ON PROPERTY	SEMSLIENS	0	0	TP/AP
SSEHRI PFAS CONTAMINATION SITES	SSEHRIPFAS	0	0	TP/AP
SECTION SEVEN TRACKING SYSTEM	SSTS	0	0	TP/AP
TOXIC SUBSTANCE CONTROL ACT INVENTORY	TSCA	0	0	TP/AP
TOXICS RELEASE INVENTORY	TRI	0	0	TP/AP
ALTERNATIVE FUELING STATIONS	ALTFUELS	0	0	0.2500
FEMA OWNED STORAGE TANKS	FEMAUST	0	0	0.2500
HISTORICAL GAS STATIONS	HISTPST	0	0	0.2500
INTEGRATED COMPLIANCE INFORMATION SYSTEM DRYCLEANERS	ICISCLEANERS	0	0	0.2500
MINE SAFETY AND HEALTH ADMINISTRATION MASTER INDEX FILE	MSHA	0	0	0.2500
MINERAL RESOURCE DATA SYSTEM	MRDS	0	0	0.2500
OPEN DUMP INVENTORY	ODI	0	0	0.5000
SURFACE MINING CONTROL AND RECLAMATION ACT SITES	SMCRA	0	0	0.5000
URANIUM MILL TAILINGS RADIATION CONTROL ACT SITES	USUMTRCA	0	0	0.5000
DEPARTMENT OF DEFENSE SITES	DOD	0	0	1.0000
FORMER MILITARY NIKE MISSILE SITES	NMS	0	0	1.0000
FORMERLY USED DEFENSE SITES	FUDS	0	0	1.0000
FORMERLY UTILIZED SITES REMEDIAL ACTION PROGRAM	FUSRAP	0	0	1.0000
RECORD OF DECISION SYSTEM	RODS	0	0	1.0000
SUB-TOTAL		0	0	

Database Summary

STATE (LA) LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
SITES WITH CONTROLS	IC	0	0	TP/AP
NO LONGER REPORTED UNDERGROUND STORAGE TANKS	NLRUST	0	0	0.2500
UNDERGROUND STORAGE TANKS	UST	1	0	0.2500
APPROVED HURRICANE DEBRIS DUMP SITES	ADS	0	0	0.5000
HISTORICAL LEAKING UNDERGROUND STORAGE TANKS	HLUST	0	0	0.5000
LEAKING UNDERGROUND STORAGE TANKS	LUST	0	0	0.5000
SOLID WASTE LANDFILLS	SWLF	0	0	0.5000
VOLUNTARY REMEDIATION PROGRAM SITES	VRP	0	0	0.5000
CONFIRMED AND POTENTIAL SITES INVENTORY	CPI	0	0	1.0000

SUB-TOTAL		1	0	
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Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
ASBESTOS DEMOLITION AND RENOVATION NOTIFICATION PROJECTS	ASBESTOS	0	0	TP/AP
CLANDESTINE DRUG LABORATORY LOCATIONS	CDL	0	0	TP/AP
LISTING OF LOUISIANA DEQ LIENS	LIENS	0	0	TP/AP
SPILLS LISTING	SPILLS	0	0	TP/AP
WASTE TIRE GENERATOR LIST	WASTETIRE	0	0	TP/AP
DRYCLEANING FACILITIES	DCR	0	0	0.2500
RECYCLING FACILITIES	RCY	0	0	0.5000
WASTE PITS	WP	4	0	0.5000

SUB-TOTAL		4	0	
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Database Summary

TRIBAL LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
UNDERGROUND STORAGE TANKS ON TRIBAL LANDS	USTR06	0	0	0.2500
LEAKING UNDERGROUND STORAGE TANKS ON TRIBAL LANDS	LUSTR06	0	0	0.5000
OPEN DUMP INVENTORY ON TRIBAL LANDS	ODINDIAN	0	0	0.5000
SUB-TOTAL		0	0	

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
INDIAN RESERVATIONS	INDIANRES	0	0	1.0000
SUB-TOTAL		0	0	
TOTAL		7	0	

Database Radius Summary

FEDERAL LISTING

Standard environmental records are displayed in bold.

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
AIRSAFS	0.0200	0	NS	NS	NS	NS	NS	0
BRS	0.0200	0	NS	NS	NS	NS	NS	0
CDL	0.0200	0	NS	NS	NS	NS	NS	0
DOCKETS	0.0200	0	NS	NS	NS	NS	NS	0
EC	0.0200	0	NS	NS	NS	NS	NS	0
ECHOR06	0.0200	0	NS	NS	NS	NS	NS	0
ERNSLA	0.0200	2	NS	NS	NS	NS	NS	2
FRSLA	0.0200	0	NS	NS	NS	NS	NS	0
HMIRSR06	0.0200	0	NS	NS	NS	NS	NS	0
HWCD	0.0200	0	NS	NS	NS	NS	NS	0
ICIS	0.0200	0	NS	NS	NS	NS	NS	0
ICISNPDES	0.0200	0	NS	NS	NS	NS	NS	0
LUCIS	0.0200	0	NS	NS	NS	NS	NS	0
MLTS	0.0200	0	NS	NS	NS	NS	NS	0
NPDES06	0.0200	0	NS	NS	NS	NS	NS	0
PADS	0.0200	0	NS	NS	NS	NS	NS	0
PCSR06	0.0200	0	NS	NS	NS	NS	NS	0
RCRASC	0.0200	0	NS	NS	NS	NS	NS	0
SEMSLIENS	0.0200	0	NS	NS	NS	NS	NS	0
SFLIENS	0.0200	0	NS	NS	NS	NS	NS	0
SSEHRIPFAS	0.0200	0	NS	NS	NS	NS	NS	0
SSTS	0.0200	0	NS	NS	NS	NS	NS	0
TRI	0.0200	0	NS	NS	NS	NS	NS	0
TSCA	0.0200	0	NS	NS	NS	NS	NS	0
RCRAGR06	0.1250	0	0	NS	NS	NS	NS	0
RCRANGR06	0.1250	0	0	NS	NS	NS	NS	0
ALTFUELS	0.2500	0	0	0	NS	NS	NS	0
FEMAUST	0.2500	0	0	0	NS	NS	NS	0
HISTPST	0.2500	0	0	0	NS	NS	NS	0
ICISCLEANERS	0.2500	0	0	0	NS	NS	NS	0
MRDS	0.2500	0	0	0	NS	NS	NS	0
MSHA	0.2500	0	0	0	NS	NS	NS	0
BF	0.5000	0	0	0	0	NS	NS	0
DNPL	0.5000	0	0	0	0	NS	NS	0
NLRRCRAT	0.5000	0	0	0	0	NS	NS	0

Database Radius Summary

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
ODI	0.5000	0	0	0	0	NS	NS	0
RCRAT	0.5000	0	0	0	0	NS	NS	0
SEMS	0.5000	0	0	0	0	NS	NS	0
SEMSARCH	0.5000	0	0	0	0	NS	NS	0
SMCRA	0.5000	0	0	0	0	NS	NS	0
USUMTRCA	0.5000	0	0	0	0	NS	NS	0
DOD	1.0000	0	0	0	0	0	NS	0
FUDS	1.0000	0	0	0	0	0	NS	0
FUSRAP	1.0000	0	0	0	0	0	NS	0
NLRRCRAC	1.0000	0	0	0	0	0	NS	0
NMS	1.0000	0	0	0	0	0	NS	0
NPL	1.0000	0	0	0	0	0	NS	0
PNPL	1.0000	0	0	0	0	0	NS	0
RCRAC	1.0000	0	0	0	0	0	NS	0
RCRASUBC	1.0000	0	0	0	0	0	NS	0
RODS	1.0000	0	0	0	0	0	NS	0
SUB-TOTAL		2	0	0	0	0	0	2

Database Radius Summary

STATE (LA) LISTING

Standard environmental records are displayed in bold.

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
ASBESTOS	0.0200	0	NS	NS	NS	NS	NS	0
CDL	0.0200	0	NS	NS	NS	NS	NS	0
IC	0.0200	0	NS	NS	NS	NS	NS	0
LIENS	0.0200	0	NS	NS	NS	NS	NS	0
SPILLS	0.0200	0	NS	NS	NS	NS	NS	0
WASTETIRE	0.0200	0	NS	NS	NS	NS	NS	0
DCR	0.2500	0	0	0	NS	NS	NS	0
NLRUST	0.2500	0	0	0	NS	NS	NS	0
UST	0.2500	0	0	1	NS	NS	NS	1
ADS	0.5000	0	0	0	0	NS	NS	0
HLUST	0.5000	0	0	0	0	NS	NS	0
LUST	0.5000	0	0	0	0	NS	NS	0
RCY	0.5000	0	0	0	0	NS	NS	0
SWLF	0.5000	0	0	0	0	NS	NS	0
VRP	0.5000	0	0	0	0	NS	NS	0
WP	0.5000	1	1	0	2	NS	NS	4
CPI	1.0000	0	0	0	0	0	NS	0
SUB-TOTAL		1	1	1	2	0	0	5

Database Radius Summary

TRIBAL LISTING

Standard environmental records are displayed in bold.

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
USTR06	0.2500	0	0	0	NS	NS	NS	0
LUSTR06	0.5000	0	0	0	0	NS	NS	0
ODINDIAN	0.5000	0	0	0	0	NS	NS	0
INDIANRES	1.0000	0	0	0	0	0	NS	0

SUB-TOTAL		0	0	0	0	0	0	0
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TOTAL		3	1	1	2	0	0	7
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NOTES:

NS = NOT SEARCHED

TP/AP = TARGET PROPERTY/ADJACENT PROPERTY

Radius Map 1

Radius Map 2

Ortho Map

Topographic Map

Located Sites Summary

NOTE: Standard environmental records are displayed in bold.

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address	PAGE #
1	ERNSLA	260172	Equal (0 ft.)	TP		DELACROIX, LA	17
2	ERNSLA	774406	Equal (0 ft.)	TP	UNKNOWN SHEEN INCIDENT	DELACROIX, LA	19
3	WP	44_f_11317	Equal (0 ft.)	TP	TRANSCONTINENTAL GAS P/L CORP.	SAINT BERNARD, LA 70085	21
4	WP	44_ms_10417	Higher (2 ft.)	0.099 mi. WNW (523 ft.)	LOUISIANA GAS SERVICE CO.	SAINT BERNARD, LA 70085	22
5	UST	66873	Higher (2 ft.)	0.132 mi. WNW (697 ft.)	SERIGNE'S BOAT LAUNCH	5933 DELACROIX HWY, DELACROIX, LA 70085	23
6	WP	44_w_11673	Higher (1 ft.)	0.316 mi. NW (1668 ft.)	ROBERT OMERA	SAINT BERNARD, LA 70085	28
7	WP	44_w_11319	Equal (0 ft.)	0.498 mi. SE (2629 ft.)	INACTIVE OPERATOR	SAINT BERNARD, LA 70085	29

Site Summary By Database

NOTE: Standard environmental records are displayed in bold.

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address
1	ERNSLA	260172	Equal (0 ft.)	TP		DELACROIX, LA
2	ERNSLA	774406	Equal (0 ft.)	TP	UNKNOWN SHEEN INCIDENT	DELACROIX, LA
5	UST	66873	Higher (2 ft.)	0.132 mi. WNW (697 ft.)	SERIGNE'S BOAT LAUNCH	5933 DELACROIX HWY, DELACROIX, LA 70085
3	WP	44_f_11317	Equal (0 ft.)	TP	TRANSCONTINENTAL GAS P/L CORP.	SAINT BERNARD, LA 70085
4	WP	44_ms_10417	Higher (2 ft.)	0.099 mi. WNW (523 ft.)	LOUISIANA GAS SERVICE CO.	SAINT BERNARD, LA 70085
6	WP	44_w_11673	Higher (1 ft.)	0.316 mi. NW (1668 ft.)	ROBERT OMERA	SAINT BERNARD, LA 70085
7	WP	44_w_11319	Equal (0 ft.)	0.498 mi. SE (2629 ft.)	INACTIVE OPERATOR	SAINT BERNARD, LA 70085

Elevation Summary

Elevations are collected from the USGS 3D Elevation Program 1/3 arc-second (approximately 10 meters) layer hosted at the NGTOC. .

Target Property Elevation: 0 ft.

NOTE: Standard environmental records are displayed in bold.

EQUAL/HIGHER ELEVATION

Map ID#	Database Name	Elevation	Site Name	Address	Page #
1	ERNSLA	0 ft.		DELACROIX, LA	17
2	ERNSLA	0 ft.	UNKNOWN SHEEN INCIDENT	DELACROIX, LA	19
3	WP	0 ft.	TRANSCONTINENTAL GAS P/L CORP.	SAINT BERNARD, LA 70085	21
4	WP	2 ft.	LOUISIANA GAS SERVICE CO.	SAINT BERNARD, LA 70085	22
5	UST	2 ft.	SERIGNE'S BOAT LAUNCH	5933 DELACROIX HWY, DELACROIX, LA 70085	23
6	WP	1 ft.	ROBERT OMERA	SAINT BERNARD, LA 70085	28
7	WP	0 ft.	INACTIVE OPERATOR	SAINT BERNARD, LA 70085	29

LOWER ELEVATION

No Records Found

Emergency Response Notification System (ERNSLA)

MAP ID# 1

Distance from Property: 0.000 mi. (0 ft.) X
Elevation: 0 ft. (Equal to TP)

GSID#: 260172
NRC REPORT #: 260172
INCIDENT LOCATION: NOT REPORTED
INCIDENT ADDRESS: NOT REPORTED
DELACROIX, LA
INCIDENT COUNTY: PLAQUEMINES

INCIDENT INFORMATION

NRC REPORT #: 260172
DESCRIPTION OF INCIDENT: F/V HAD PRODUCT AND A SHEEN COMING FROM THE VESSEL/SHEEN SIZE : 50FT X2000
FT/RAINBOW COLOR
TYPE OF INCIDENT: VESSEL
CAUSE: UNKNOWN
DATE/TIME: 9/12/1994 11:15:00 AM
DISCOVERED/OCCURED/PLANNED: DISCOVERED
POTENTIAL FLAG: NOT REPORTED

REPORT RECEIPT AND SUSPECTED RESPONSIBLE PARTY INFORMATION

NRC REPORT #: 260172
DATE/TIME RECEIVED: 9/12/1994
DATE/TIME COMPLETE: 9/12/1994
CALL TYPE: INCIDENT
SOURCE: UNAVAILABLE
RESPONSIBLE COMPANY: F/V
ADDRESS: ADDRESS NOT REPORTED
CITY NOT REPORTED
RESPONSIBLE COMPANY ORGANIZATION TYPE: PRIVATE ENTERPRISE

INCIDENT DETAILS

NRC REPORT #: 260172
FIRE INVOLVED: NO
EVACUATION RADIUS: NOT REPORTED
ANY INJURIES: UNKNOWN
ANY EVACUATIONS: NO
ANY FATALITIES: UNKNOWN
ANY DAMAGES: NO
DAMAGE AMOUNT: NOT REPORTED
MEDIUM DESCRIPTION: WATER
ADDITIONAL MEDIUM INFO: SOUTHEAST CORNER OF LAKE LERY
BODY OF WATER: NOT REPORTED
TRIBUTARY OF: NOT REPORTED
RELEASE SECURED: UNKNOWN
ESTIMATED DURATION OF RELEASE: NOT REPORTED
RELEASE RATE: NOT REPORTED
REMEDIAL ACTION: NONE
STATE AGENCY ON SCENE: NOT REPORTED

Emergency Response Notification System (ERNSLA)

STATE AGENCY REPORT #: NOT REPORTED

OTHER AGENCY NOTIFIED: NOT REPORTED

WATER SUPPLY CONTAMINATED: UNKNOWN

COMMUNITY IMPACT: NO

ADDITIONAL INFO: THE VESSEL NUMBER WAS LA2006-CA

STATE AGENCY NOTIFIED: NOT REPORTED

FEDERAL AGENCY NOTIFIED: NOT REPORTED

OFFSHORE: NO

INFORMATION SPECIFIC TO EACH TYPE OF INCIDENT

- NO INFORMATION REPORTED -

MATERIALS INVOLVED

NRC REPORT #: 260172

CHRIS CODE: OUN

CAS #: NOT REPORTED

MATERIAL RELEASED/AMOUNT: UNKNOWN OIL / 10 GALLON(S)

IF REACHED WATER: YES

AMOUNT IN WATER: 10 GALLON(S)

OTHER MATERIALS INVOLVED

- NO OTHER MATERIALS INVOLVED -

TRAINS DETAILS

- NO TRAIN DETAILS REPORTED -

TRAIN DERAILED UNITS

- NO TRAIN DERAILED UNITS REPORTED -

VESSEL DETAILS

- NO VESSEL DETAILS REPORTED -

MOBILE DETAILS

- NO MOBILE DETAILS REPORTED -

[Back to Report Summary](#)

Emergency Response Notification System (ERNSLA)

[MAP ID# 2](#)

Distance from Property: 0.000 mi. (0 ft.) X
Elevation: 0 ft. (Equal to TP)

GSID#: 774406

NRC REPORT #: 774406

INCIDENT LOCATION: UNKNOWN SHEEN INCIDENT

INCIDENT ADDRESS: NOT REPORTED

DELACROIX, LA

INCIDENT COUNTY: ST. BERNARD

INCIDENT INFORMATION

NRC REPORT #: 774406

DESCRIPTION OF INCIDENT: CALLER IS REPORTING AN UNKNOWN SHEEN FROM AN UNKNOWN SOURCE.

TYPE OF INCIDENT: UNKNOWN SHEEN

CAUSE: UNKNOWN

DATE/TIME: 9/16/2005 2:00:00 PM

DISCOVERED/OCCURED/PLANNED: DISCOVERED

POTENTIAL FLAG: NOT REPORTED

REPORT RECEIPT AND SUSPECTED RESPONSIBLE PARTY INFORMATION

NRC REPORT #: 774406

DATE/TIME RECEIVED: 9/29/2005

DATE/TIME COMPLETE: 9/29/2005

CALL TYPE: INCIDENT

SOURCE: TELEPHONE

RESPONSIBLE COMPANY: NOT REPORTED

ADDRESS: ADDRESS NOT REPORTED

CITY NOT REPORTED

RESPONSIBLE COMPANY ORGANIZATION TYPE: UNKNOWN

INCIDENT DETAILS

NRC REPORT #: 774406

FIRE INVOLVED: NO

EVACUATION RADIUS: NOT REPORTED

ANY INJURIES: NO

ANY EVACUATIONS: NO

ANY FATALITIES: NO

ANY DAMAGES: NO

DAMAGE AMOUNT: NOT REPORTED

MEDIUM DESCRIPTION: WATER

ADDITIONAL MEDIUM INFO: / UNNAMED CANAL

BODY OF WATER: UNNAMED CANAL

TRIBUTARY OF: NOT REPORTED

RELEASE SECURED: UNKNOWN

ESTIMATED DURATION OF RELEASE: NOT REPORTED

RELEASE RATE: NOT REPORTED

REMEDIAL ACTION: UNKNOWN

STATE AGENCY ON SCENE: NOT REPORTED

STATE AGENCY REPORT #: NOT REPORTED

Emergency Response Notification System (ERNSLA)

OTHER AGENCY NOTIFIED: NOT REPORTED

WATER SUPPLY CONTAMINATED: NO

COMMUNITY IMPACT: NO

ADDITIONAL INFO: CALLER HAD NO ADDITIONAL INFORMATION.

STATE AGENCY NOTIFIED: NOT REPORTED

FEDERAL AGENCY NOTIFIED: NOT REPORTED

OFFSHORE: NO

INFORMATION SPECIFIC TO EACH TYPE OF INCIDENT

- NO INFORMATION REPORTED -

MATERIALS INVOLVED

NRC REPORT #: 774406

CHRIS CODE: OUN

CAS #: NOT REPORTED

MATERIAL RELEASED/AMOUNT: UNKNOWN OIL / UNKNOWN AMOUNT

IF REACHED WATER: YES

AMOUNT IN WATER: UNKNOWN AMOUNT

OTHER MATERIALS INVOLVED

- NO OTHER MATERIALS INVOLVED -

TRAINS DETAILS

- NO TRAIN DETAILS REPORTED -

TRAIN DERAILED UNITS

- NO TRAIN DERAILED UNITS REPORTED -

VESSEL DETAILS

- NO VESSEL DETAILS REPORTED -

MOBILE DETAILS

- NO MOBILE DETAILS REPORTED -

[Back to Report Summary](#)

Waste Pits (WP)

[MAP ID# 3](#)

Distance from Property: 0.000 mi. (0 ft.) X
Elevation: 0 ft. (Equal to TP)

SITE INFORMATION

ID#: 44_f_11317

OPERATOR: TRANSCONTINENTAL GAS P/L CORP.

LAND OWNER: LEON NUNEZ ET AL

PARISH: ST. BERNARD

OIL FIELD NAME: DELACROIX ISLAND

PIT TYPE: FACILITY - A PLACE WHERE PETROLEUM IS PROCESSED AND/OR SEPARATED PRIOR TO DISTRIBUTION AND/OR TRANSPORTATION BY PIPELINES OR BARGES

PIT DESCRIPTION: HEATER

COMMENTS: NOT REPORTED

INSPECTION DATE: 07/29/1996 INSPECTION TIME: 10:00

STATUS: ABANDONED/ INACTIVE

IS PIT PROPERLY MARKED WITH AN ID SIGN OR PLAQUE?: YES

IS THERE A SITE PLAN FOR THE FACILITY?: NO

IS THE AREAS AFFECTED BY SPILLS MAPPED ON THE SITE PLAN?: NO

HAVE THE ENVIRONMENTALLY SENSITIVE AREAS (E.G. WETLAND) NEAR THE FACILITY BEEN MAPPED?: NO

NUMBER OF PHOTOS TAKEN OF FACILITY/SITE: 2

GENERAL DESCRIPTION OF CONTAINMENT: BARRIER

DEPTH OF FLUID NECESSARY TO OVERFLOW COTAINMENT: NONE

CONDITION OF CONTAINMENT: ADEQUATE

CONTAINMENT BREACHED?: NO

GENERAL COMMENTS ABOUT SITE: NOT REPORTED

HAZARD / CLEANUP RANKING (RANGE OF VALUES 0 - 90): 60

REMEDIAL ACTION INFORMATION

NO DATA REPORTED

[Back to Report Summary](#)

Waste Pits (WP)

[MAP ID# 4](#)

Distance from Property: 0.099 mi. (523 ft.) WNW
Elevation: 2 ft. (Higher than TP)

SITE INFORMATION

ID#: 44_ms_10417

OPERATOR: LOUISIANA GAS SERVICE CO.

LAND OWNER: COASTAL CORPORATION

PARISH: ST. BERNARD

OIL FIELD NAME: LAKE LERY FIELD

PIT TYPE: METERING STATION - A POINT IN A PIPELINE WHERE APPARATUS TO MEASURE THE FLOW OF OIL OR GAS IS EMPLACED

PIT DESCRIPTION: NOT REPORTED

COMMENTS: NOT REPORTED

INSPECTION DATE: 03/20/1996 INSPECTION TIME: 15:55

STATUS: ACTIVE

IS PIT PROPERLY MARKED WITH AN ID SIGN OR PLAQUE?: YES

IS THERE A SITE PLAN FOR THE FACILITY?: YES

IS THE AREAS AFFECTED BY SPILLS MAPPED ON THE SITE PLAN?: NO

HAVE THE ENVIRONMENTALLY SENSITIVE AREAS (E.G. WETLAND) NEAR THE FACILITY BEEN MAPPED?: NO

NUMBER OF PHOTOS TAKEN OF FACILITY/SITE: 2

GENERAL DESCRIPTION OF CONTAINMENT: OTHER, FENCE

DEPTH OF FLUID NECESSARY TO OVERFLOW COTAINMENT: NONE

CONDITION OF CONTAINMENT: ADEQUATE

CONTAINMENT BREACHED?: NO

GENERAL COMMENTS ABOUT SITE: NOT REPORTED

HAZARD / CLEANUP RANKING (RANGE OF VALUES 0 - 90): 35

REMEDIAL ACTION INFORMATION

NO DATA REPORTED

[Back to Report Summary](#)

Underground Storage Tanks (UST)

MAP ID# 5

Distance from Property: 0.132 mi. (697 ft.) WNW
Elevation: 2 ft. (Higher than TP)

FACILITY INFORMATION

AI#: 66873
NAME: SERIGNE'S BOAT LAUNCH
ADDRESS: 5933 DELACROIX HWY
DELACROIX, LA 70085
PARISH: ST. BERNARD

OWNER INFORMATION

OWNER ID #: NOT REPORTED
NAME: NOT REPORTED
ADDRESS: NOT REPORTED
CITY NOT REPORTED
PHONE: NOT REPORTED

FACILITY DETAILS

TANK ID: 19677
SUBJECT ITEM ID: 1
INSTALLED DATE: 4/30/1971
SERVICE CHANGE DATE: NOT REPORTED
LAST SERVICE DATE: NOT REPORTED
CURRENT STATUS END DATE: NOT REPORTED
TANK STATUS: CLOSED
TOTAL CAPACITY (GAL): 2000
GASOLINE: YES
EPOXY COATED STEEL: NOT REPORTED
DIESEL: NOT REPORTED
COMPOSITE: NOT REPORTED
KEROSENE: NOT REPORTED
FIBERGLASS: NOT REPORTED
HEATING OIL: NOT REPORTED
LINED INTERIOR: NOT REPORTED
NEW OR USED OIL: NOT REPORTED
DOUBLE WALLED: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED
POLYETHYLENE JACKET: NOT REPORTED
ASPHALT/COALT: NOT REPORTED
EXCAVATION LINER: NOT REPORTED
CATHODICALLY PROTECTIVE STEEL: NOT REPORTED
UNKNOWN MATERIAL: NOT REPORTED
CONCRETE: NOT REPORTED
OTHER MATERIALS: NOT REPORTED
PIPING METHOD: NOT REPORTED
COMMENTS: NOT REPORTED

TANK ID: 19678
SUBJECT ITEM ID: 2
INSTALLED DATE: 4/30/1971
SERVICE CHANGE DATE: NOT REPORTED
LAST SERVICE DATE: NOT REPORTED

Underground Storage Tanks (UST)

CURRENT STATUS END DATE: NOT REPORTED
TANK STATUS: CLOSED
TOTAL CAPACITY (GAL): 2000
GASOLINE: YES
EPOXY COATED STEEL: NOT REPORTED
DIESEL: NOT REPORTED
COMPOSITE: NOT REPORTED
KEROSENE: NOT REPORTED
FIBERGLASS: NOT REPORTED
HEATING OIL: NOT REPORTED
LINED INTERIOR: NOT REPORTED
NEW OR USED OIL: NOT REPORTED
DOUBLE WALLED: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED
POLYETHYLENE JACKET: NOT REPORTED
ASPHALT/COALT: NOT REPORTED
EXCAVATION LINER: NOT REPORTED
CATHODICALLY PROTECTIVE STEEL: NOT REPORTED
UNKNOWN MATERIAL: NOT REPORTED
CONCRETE: NOT REPORTED
OTHER MATERIALS: NOT REPORTED
PIPING METHOD: NOT REPORTED
COMMENTS: NOT REPORTED

TANK ID: 19679
SUBJECT ITEM ID: 3
INSTALLED DATE: 4/30/1971
SERVICE CHANGE DATE: NOT REPORTED
LAST SERVICE DATE: NOT REPORTED
CURRENT STATUS END DATE: NOT REPORTED
TANK STATUS: CLOSED
TOTAL CAPACITY (GAL): 2000
GASOLINE: NOT REPORTED
EPOXY COATED STEEL: NOT REPORTED
DIESEL: YES
COMPOSITE: NOT REPORTED
KEROSENE: NOT REPORTED
FIBERGLASS: NOT REPORTED
HEATING OIL: NOT REPORTED
LINED INTERIOR: NOT REPORTED
NEW OR USED OIL: NOT REPORTED
DOUBLE WALLED: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED
POLYETHYLENE JACKET: NOT REPORTED
ASPHALT/COALT: NOT REPORTED
EXCAVATION LINER: NOT REPORTED

Underground Storage Tanks (UST)

CATHODICALLY PROTECTIVE STEEL: NOT REPORTED
UNKNOWN MATERIAL: NOT REPORTED
CONCRETE: NOT REPORTED
OTHER MATERIALS: NOT REPORTED
PIPING METHOD: NOT REPORTED
COMMENTS: NOT REPORTED

TANK ID: 32123
SUBJECT ITEM ID: 4
INSTALLED DATE: 4/29/1988
SERVICE CHANGE DATE: NOT REPORTED
LAST SERVICE DATE: NOT REPORTED
CURRENT STATUS END DATE: NOT REPORTED
TANK STATUS: ACTIVE
TOTAL CAPACITY (GAL): 6000
GASOLINE: NOT REPORTED
EPOXY COATED STEEL: NOT REPORTED
DIESEL: YES
COMPOSITE: YES
KEROSENE: NOT REPORTED
FIBERGLASS: NOT REPORTED
HEATING OIL: NOT REPORTED
LINED INTERIOR: NOT REPORTED
NEW OR USED OIL: NOT REPORTED
DOUBLE WALLED: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED
POLYETHYLENE JACKET: NOT REPORTED
ASPHALT/COALT: NOT REPORTED
EXCAVATION LINER: NOT REPORTED
CATHODICALLY PROTECTIVE STEEL: NOT REPORTED
UNKNOWN MATERIAL: NOT REPORTED
CONCRETE: NOT REPORTED
OTHER MATERIALS: NOT REPORTED
PIPING METHOD: PRESSURE
COMMENTS: NOT REPORTED

TANK ID: 32124
SUBJECT ITEM ID: 5
INSTALLED DATE: 4/29/1988
SERVICE CHANGE DATE: NOT REPORTED
LAST SERVICE DATE: NOT REPORTED
CURRENT STATUS END DATE: NOT REPORTED
TANK STATUS: ACTIVE
TOTAL CAPACITY (GAL): 4000
GASOLINE: YES

Underground Storage Tanks (UST)

EPOXY COATED STEEL: NOT REPORTED
DIESEL: NOT REPORTED
COMPOSITE: YES
KEROSENE: NOT REPORTED
FIBERGLASS: NOT REPORTED
HEATING OIL: NOT REPORTED
LINED INTERIOR: NOT REPORTED
NEW OR USED OIL: NOT REPORTED
DOUBLE WALLED: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED
POLYETHYLENE JACKET: NOT REPORTED
ASPHALT/COALT: NOT REPORTED
EXCAVATION LINER: NOT REPORTED
CATHODICALLY PROTECTIVE STEEL: NOT REPORTED
UNKNOWN MATERIAL: NOT REPORTED
CONCRETE: NOT REPORTED
OTHER MATERIALS: NOT REPORTED
PIPING METHOD: PRESSURE
COMMENTS: NOT REPORTED

TANK ID: 32125
SUBJECT ITEM ID: 6
INSTALLED DATE: 4/29/1988
SERVICE CHANGE DATE: NOT REPORTED
LAST SERVICE DATE: NOT REPORTED
CURRENT STATUS END DATE: NOT REPORTED
TANK STATUS: ACTIVE
TOTAL CAPACITY (GAL): 4000
GASOLINE: YES
EPOXY COATED STEEL: NOT REPORTED
DIESEL: NOT REPORTED
COMPOSITE: YES
KEROSENE: NOT REPORTED
FIBERGLASS: NOT REPORTED
HEATING OIL: NOT REPORTED
LINED INTERIOR: NOT REPORTED
NEW OR USED OIL: NOT REPORTED
DOUBLE WALLED: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED
POLYETHYLENE JACKET: NOT REPORTED
ASPHALT/COALT: NOT REPORTED
EXCAVATION LINER: NOT REPORTED
CATHODICALLY PROTECTIVE STEEL: NOT REPORTED
UNKNOWN MATERIAL: NOT REPORTED
CONCRETE: NOT REPORTED
OTHER MATERIALS: NOT REPORTED

Underground Storage Tanks (UST)

PIPING METHOD: PRESSURE

COMMENTS: NOT REPORTED

[Back to Report Summary](#)

Waste Pits (WP)

[MAP ID# 6](#)

Distance from Property: 0.316 mi. (1,668 ft.) NW
Elevation: 1 ft. (Higher than TP)

SITE INFORMATION

ID#: 44_w_11673

OPERATOR: ROBERT OMERA

LAND OWNER: COAST CORPORATION

PARISH: ST. BERNARD

OIL FIELD NAME: WILDCAT SO LA NEW ORLEANS DIST

PIT TYPE: WELL - AN OIL AND/OR GAS WELL

PIT DESCRIPTION: NOT REPORTED

COMMENTS: S.N. 064792, WELL #1; FAXYWC, FAPRMA, FAHIST, FASTRD, SURVEY PLAT, AND P AND A REPORT WAS RESEARCHED AND IS ATTACHED IN THE FINAL REPORT.

INSPECTION DATE: 07/29/1996 INSPECTION TIME: 12:58

STATUS: ABANDONED/ INACTIVE

IS PIT PROPERLY MARKED WITH AN ID SIGN OR PLAQUE?: YES

IS THERE A SITE PLAN FOR THE FACILITY?: NO

IS THE AREAS AFFECTED BY SPILLS MAPPED ON THE SITE PLAN?: NO

HAVE THE ENVIRONMENTALLY SENSITIVE AREAS (E.G. WETLAND) NEAR THE FACILITY BEEN MAPPED?: NO

NUMBER OF PHOTOS TAKEN OF FACILITY/SITE: 2

GENERAL DESCRIPTION OF CONTAINMENT: BARRIER

DEPTH OF FLUID NECESSARY TO OVERFLOW COTAINMENT: NONE

CONDITION OF CONTAINMENT: INADEQUATE

CONTAINMENT BREACHED?: NO

GENERAL COMMENTS ABOUT SITE: S.N. 064792, WELL #1; FAXYWC, FAPRMA, FAHIST, FASTRD, SURVEY PLAT, AND P AND A REPORT WAS RESEARCHED AND IS ATTACHED IN THE FINAL REPORT.

HAZARD / CLEANUP RANKING (RANGE OF VALUES 0 - 90): 75

REMEDIAL ACTION INFORMATION

PIT ACCESSIBLE BY LAND?: NO

PIT ACCESSIBLE BY WATER?: YES

CONTAINMENT NEEDS TO BE INSTALLED?: NO

EXISTING CONTAINMENT FOR PIT NEEDS TO BE REPAIRED?: NO

REMEDIAL ACTION NEEDED: NOT REPORTED

AREA AFFECTED (sq. ft.): NOT REPOR

RECOMMENDATION ON WHETHER OR NOT THE FACILITY SHOULD BE REMOVED: NOT REPORTED

HAS WELLHEAD BEEN PLUGGED & ABANDONED?: YES

DOES A BARRIER THAT PREVENTS DAMAGE TO AN ITEM NEED TO BE INSTALLED?: NO

IS THERE A POTENTIAL HAZARD TO CLEANUP OPERATOR?: NO

CLEANUP OPTIONS: REPAIR OR REMOVAL OF STRUCTURE.

TESTING & MONITORING REQUIREMENTS: MONITOR PROGRESS ON STATUS

[Back to Report Summary](#)

Waste Pits (WP)

[MAP ID# 7](#)

Distance from Property: 0.498 mi. (2,629 ft.) SE
Elevation: 0 ft. (Equal to TP)

SITE INFORMATION

ID#: 44_w_11319
OPERATOR: INACTIVE OPERATOR
LAND OWNER: LEON NUNEZ ET AL
PARISH: ST. BERNARD
OIL FIELD NAME: DELACROIX ISLAND
PIT TYPE: WELL - AN OIL AND/OR GAS WELL
PIT DESCRIPTION: NOT REPORTED
COMMENTS: S.N. 087878, NO PROTECTION, NO SIGN, VERY DANGEROUS, FAXYWC, FAPRMA, FAHIST, FASTRD, SURVEY PLAT, AND P AND A REPORT WAS RESEARCHED AND IS ATTACHED IN THE FINAL REPORT.
INSPECTION DATE: 07/29/1996 INSPECTION TIME: 10:50
STATUS: ABANDONED/ INACTIVE
IS PIT PROPERLY MARKED WITH AN ID SIGN OR PLAQUE?: YES
IS THERE A SITE PLAN FOR THE FACILITY?: YES
IS THE AREAS AFFECTED BY SPILLS MAPPED ON THE SITE PLAN?: NO
HAVE THE ENVIRONMENTALLY SENSITIVE AREAS (E.G. WETLAND) NEAR THE FACILITY BEEN MAPPED?: NO
NUMBER OF PHOTOS TAKEN OF FACILITY/SITE: 2
GENERAL DESCRIPTION OF CONTAINMENT: NONE
DEPTH OF FLUID NECESSARY TO OVERFLOW COTAINMENT: NONE
CONDITION OF CONTAINMENT: INADEQUATE
CONTAINMENT BREACHED?: YES
GENERAL COMMENTS ABOUT SITE: S.N. 087878, NO PROTECTION, NO SIGN, VERY DANGEROUS, FAXYWC, FAPRMA, FAHIST, FASTRD, SURVEY PLAT, AND P AND A REPORT WAS RESEARCHED AND IS ATTACHED IN THE FINAL REPORT.
HAZARD / CLEANUP RANKING (RANGE OF VALUES 0 - 90): 80

REMEDIAL ACTION INFORMATION

PIT ACCESSIBLE BY LAND?: NO
PIT ACCESSIBLE BY WATER?: YES
CONTAINMENT NEEDS TO BE INSTALLED?: NO
EXISTING CONTAINMENT FOR PIT NEEDS TO BE REPAIRED?: NO
REMEDIAL ACTION NEEDED: NOT REPORTED
AREA AFFECTED (sq. ft.): NOT REPOR
RECOMMENDATION ON WHETHER OR NOT THE FACILITY SHOULD BE REMOVED: NOT REPORTED
HAS WELLHEAD BEEN PLUGGED & ABANDONED?: YES
DOES A BARRIER THAT PREVENTS DAMAGE TO AN ITEM NEED TO BE INSTALLED?: NO
IS THERE A POTENTIAL HAZARD TO CLEANUP OPERATOR?: NO
CLEANUP OPTIONS: REPAIR OR REMOVAL OF STRUCTURE.
TESTING & MONITORING REQUIREMENTS: MONITOR PROGRESS ON STATUS

[Back to Report Summary](#)

Unlocated Sites Summary

This list contains sites that could not be mapped due to limited or incomplete address information.

No Records Found

Environmental Records Definitions - FEDERAL

AIRSAFS Aerometric Information Retrieval System / Air Facility Subsystem

VERSION DATE: 10/20/14

The United States Environmental Protection Agency (EPA) modified the Aerometric Information Retrieval System (AIRS) to a database that exclusively tracks the compliance of stationary sources of air pollution with EPA regulations: the Air Facility Subsystem (AFS). Since this change in 2001, the management of the AIRS/AFS database was assigned to EPA's Office of Enforcement and Compliance Assurance. Enforcement and Compliance History Online (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.

BRS Biennial Reporting System

VERSION DATE: 12/31/15

The United States Environmental Protection Agency (EPA), in cooperation with the States, biennially collects information regarding the generation, management, and final disposition of hazardous wastes regulated under the Resource Conservation and Recovery Act of 1976 (RCRA), as amended. The Biennial Report captures detailed data on the generation of hazardous waste from large quantity generators and data on waste management practices from treatment, storage and disposal facilities. Currently, the EPA states that data collected between 1991 and 1997 was originally a part of the defunct Biennial Reporting System and is now incorporated into the RCRAInfo data system.

CDL Clandestine Drug Laboratory Locations

VERSION DATE: 02/25/20

The U.S. Department of Justice ("the Department") provides this information 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. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments. The Department does not establish, implement, enforce, or certify compliance with clean-up or remediation standards for contaminated sites; the public should contact a state or local health department or environmental protection agency for that information.

DOCKETS EPA Docket Data

VERSION DATE: 12/22/05

The United States Environmental Protection Agency Docket data lists Civil Case Defendants, filing dates as far back as 1971, laws broken including section, violations that occurred, pollutants involved, penalties assessed and superfund awards by facility and location. Please refer to ICIS database as source of current data.

EC Federal Engineering Institutional Control Sites

VERSION DATE: 05/22/20

Environmental Records Definitions - FEDERAL

This database includes site locations where Engineering and/or Institutional Controls have been identified as part of a selected remedy for the site as defined by United States Environmental Protection Agency official remedy decision documents. The data displays remedy component information for Superfund decision documents issued in fiscal years 1982-2017, and it includes final and deleted NPL sites as well as 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. A site listing does not indicate that the institutional and engineering controls are currently in place nor will be in place once the remedy is complete; it only indicates that the decision to include either of them in the remedy is documented as of the completed date of the document. Institutional controls are actions, such as legal controls, that help minimize the potential for human exposure to contamination by ensuring appropriate land or resource use. Engineering controls include caps, barriers, or other device engineering to prevent access, exposure, or continued migration of contamination.

ECHOR06 Enforcement and Compliance History Information

VERSION DATE: 10/27/19

The U.S. Environmental Protection Agency's Enforcement and Compliance History Online (ECHO) database, provides compliance and enforcement information for facilities nationwide. This database includes facilities regulated as Clean Air Act stationary sources, Clean Water Act direct dischargers, Resource Conservation and Recovery Act hazardous waste handlers, Safe Drinking Water Act public water systems along with other data, such as Toxics Release Inventory releases.

ERNSLA Emergency Response Notification System

VERSION DATE: 04/05/20

This National Response Center database contains data on reported releases of oil, chemical, radiological, biological, and/or etiological discharges into the environment anywhere in the United States and its territories. The data comes from spill reports made to the U.S. Environmental Protection Agency, U.S. Coast Guard, the National Response Center and/or the U.S. Department of Transportation.

FRSLA Facility Registry System

VERSION DATE: 04/05/20

The United States Environmental Protection Agency's Office of Environmental Information (OEI) developed the Facility Registry System (FRS) as the centrally managed database that identifies facilities, sites or places subject to environmental regulations or of environmental interest. The Facility Registry System replaced the Facility Index System or FINDS database.

HMIRSR06 Hazardous Materials Incident Reporting System

VERSION DATE: 05/20/20

The HMIRS database contains unintentional hazardous materials release information reported to the U.S.

Environmental Records Definitions - FEDERAL

Department of Transportation located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

HWCD Hazardous Waste Compliance Docket Facilities

VERSION DATE: 04/29/19

This list of the Federal Agency Hazardous Waste Compliance Docket Facilities is maintained by the United States Environmental Protection Agency (EPA). According to the EPA, Section 120(c) of CERCLA requires EPA to establish a listing, known as the Federal Facility Hazardous Waste Compliance Docket (Docket), of Federal facilities which are managing or have managed hazardous waste; or have had a release of hazardous waste. Thus, the Docket identifies all Federal facilities that must be evaluated to determine whether they pose a risk to human health and the environment and it makes this information available to the public. In order for the Docket to remain current and accurate it requires periodic updating.

ICIS Integrated Compliance Information System (formerly DOCKETS)

VERSION DATE: 03/28/20

ICIS is a case activity tracking and management system for civil, judicial, and administrative federal Environmental Protection Agency enforcement cases. ICIS contains information on federal administrative and federal judicial cases under the following environmental statutes: the Clean Air Act, the Clean Water Act, the Resource Conservation and Recovery Act, the Emergency Planning and Community Right-to-Know Act - Section 313, the Toxic Substances Control Act, the Federal Insecticide, Fungicide, and Rodenticide Act, the Comprehensive Environmental Response, Compensation, and Liability Act, the Safe Drinking Water Act, and the Marine Protection, Research, and Sanctuaries Act.

ICISNPDES Integrated Compliance Information System National Pollutant Discharge Elimination System

VERSION DATE: 04/26/20

Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States. This database is provided by the U.S. Environmental Protection Agency.

LUCIS Land Use Control Information System

VERSION DATE: 09/01/06

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.

MLTS Material Licensing Tracking System

VERSION DATE: 06/29/17

MLTS is a list of approximately 8,100 sites which have or use radioactive materials subject to the United States

Environmental Records Definitions - FEDERAL

Nuclear Regulatory Commission (NRC) licensing requirements. Disclaimer: Due to agency regulations and policies, this database contains applicant/licensee location information which may or may not be related to the physical location per MLTS site.

NPDES06 National Pollutant Discharge Elimination System

VERSION DATE: 04/01/07

Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States. The NPDES database was collected from the U.S. Environmental Protection Agency (EPA) from December 2002 through April 2007. Refer to the ICIS and/or ICIS-NPDES database as source of current data. This database includes permitted facilities located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

PADS PCB Activity Database System

VERSION DATE: 10/09/19

PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of Polychlorinated Biphenyls (PCB) who are required to notify the U.S. Environmental Protection Agency of such activities.

PCSR06 Permit Compliance System

VERSION DATE: 08/01/12

The historic Permit Compliance System tracked enforcement status and permit compliance of facilities controlled by the National Pollutant Discharge Elimination System (NPDES) under the Clean Water Act. This database includes permitted facilities located in EPA Region 6 states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas. This system has since been modernized by United States Environmental Protection Agency and is now integrated into the Integrated Compliance Information System (ICIS). Please refer to the ICIS database as the current source for this data.

RCRASC RCRA Sites with Controls

VERSION DATE: 05/14/20

The Resource Conservation and Recovery Act (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. This listing refers to facilities with institutional controls in place.

SEMSLIENS SEMS Lien on Property

VERSION DATE: 03/23/20

Environmental Records Definitions - FEDERAL

The U.S. Environmental Protection Agency's (EPA) Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation (OSRTI), has implemented The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) to track and report on clean-up and enforcement activities taking place at Superfund sites. SEMS represents a joint development and ongoing collaboration between Superfund's Remedial, Removal, Federal Facilities, Enforcement and Emergency Response programs. This is a listing of SEMS sites with a lien on the property.

SFLIENS CERCLIS Liens

VERSION DATE: 06/08/12

A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which United States Environmental Protection Agency has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties. This database contains those CERCLIS sites where the Lien on Property action is complete. Please refer to the SEMSLIENS database as source of current data.

SSEHRIPFAS SSEHRI PFAS Contamination Sites

VERSION DATE: 12/12/19

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. Disclaimer: The source conveys this database 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. Limited location details are available with this data. Please access the following source link for the most current information:
<https://pfasproject.com/pfas-contamination-site-tracker/>

SSTS Section Seven Tracking System

VERSION DATE: 02/01/17

The United States Environmental Protection Agency tracks information on pesticide establishments through the Section Seven Tracking System (SSTS). SSTS records the registration of new establishments and records pesticide production at each establishment. The Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) requires that production of pesticides or devices be conducted in a registered pesticide-producing or device-producing establishment. ("Production" includes formulation, packaging, repackaging, and relabeling.)

Environmental Records Definitions - FEDERAL

TRI Toxics Release Inventory

VERSION DATE: 12/31/18

The Toxics Release Inventory, provided by the United States Environmental Protection Agency, includes data on toxic chemical releases and waste management activities from certain industries as well as federal and tribal facilities. This inventory contains information about the types and amounts of toxic chemicals that are released each year to the air, water, and land as well as information on the quantities of toxic chemicals sent to other facilities for further waste management.

TSCA Toxic Substance Control Act Inventory

VERSION DATE: 12/31/16

The Toxic Substances Control Act (TSCA) was enacted in 1976 to ensure that chemicals manufactured, imported, processed, or distributed in commerce, or used or disposed of in the United States do not pose any unreasonable risks to human health or the environment. TSCA section 8(b) provides the United States Environmental Protection Agency (EPA) authority to "compile, keep current, and publish a list of each chemical substance that is manufactured or processed in the United States." This TSCA Chemical Substance Inventory contains non-confidential information on the production amount of toxic chemicals from each manufacturer and importer site. The EPA has collected Chemical Data Reporting (CDR) data since in 1986 (as Inventory Update Reporting). Collections occur approximately every four years and reporting requirements changed from collection to collection.

RCRAGR06 Resource Conservation & Recovery Act - Generator

VERSION DATE: 03/23/20

The Resource Conservation and Recovery Act (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. This listing refers to facilities currently generating hazardous waste. EPA region 6 includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

RCRANGR06 Resource Conservation & Recovery Act - Non-Generator

VERSION DATE: 03/23/20

The Resource Conservation and Recovery Act (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. This listing refers to facilities classified as non-generators. Non-Generators do not presently generate hazardous waste. EPA

Environmental Records Definitions - FEDERAL

Region 6 includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

ALTFUELS Alternative Fueling Stations

VERSION DATE: 04/30/20

Nationwide list of alternative fueling stations made available by the U.S. Department of Energy's Office of Energy Efficiency & Renewable Energy. Includes Bio-diesel stations, Ethanol (E85) stations, Liquefied Petroleum Gas (Propane) stations, Ethanol (E85) stations, Natural Gas stations, Hydrogen stations, and Electric Vehicle Supply Equipment (EVSE).

FEMAUST FEMA Owned Storage Tanks

VERSION DATE: 12/01/16

This is a listing of FEMA owned underground and aboveground storage tank sites. For security reasons, address information is not released to the public according to the U.S. Department of Homeland Security.

HISTPST Historical Gas Stations

VERSION DATE: NR

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.

ICISCLEANERS Integrated Compliance Information System Drycleaners

VERSION DATE: 03/28/20

This is a listing of drycleaner facilities from the Integrated Compliance Information System (ICIS). The U.S. Environmental Protection Agency (EPA) tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments. The following Primary SIC Codes are included in this data: 7211, 7212, 7213, 7215, 7216, 7217, 7218, and/or 7219; the following Primary NAICS Codes are included in this data: 812320, 812331, and/or 812332.

MRDS Mineral Resource Data System

VERSION DATE: 03/15/16

MRDS (Mineral Resource Data System) 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.

Environmental Records Definitions - FEDERAL

MSHA Mine Safety and Health Administration Master Index File

VERSION DATE: 09/20/19

The Mine dataset lists all Coal and Metal/Non-Metal mines under MSHA's jurisdiction since 1/1/1970. It includes such information as the current status of each mine (Active, Abandoned, NonProducing, etc.), the current owner and operating company, commodity codes and physical attributes of the mine. Mine ID is the unique key for this data. This information is provided by the United States Department of Labor - Mine Safety and Health Administration (MSHA).

BF Brownfields Management System

VERSION DATE: 04/09/20

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 takes development pressures off of undeveloped, open land, and both improves and protects the environment. The United States Environmental Protection Agency maintains this database to track activities in the various brown field grant programs including grantee assessment, site cleanup and site redevelopment. This database included tribal brownfield sites.

DNPL Delisted National Priorities List

VERSION DATE: 04/22/20

This database includes sites from the United States Environmental Protection Agency's Final National Priorities List (NPL) where remedies have proven to be satisfactory or sites where the original analyses were inaccurate, and the site is no longer appropriate for inclusion on the NPL, and final publication in the Federal Register has occurred.

NLRRCRAT No Longer Regulated RCRA Non-CORRACTS TSD Facilities

VERSION DATE: 03/23/20

This database includes RCRA Non-Corrective Action TSD facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements. This listing includes facilities that formerly treated, stored or disposed of hazardous waste.

ODI Open Dump Inventory

VERSION DATE: 06/01/85

The open dump inventory was published by the United States Environmental Protection Agency. An open dump is defined as a facility or site where solid waste is disposed of which is not a sanitary landfill which meets the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944) and which is not a facility for disposal of hazardous waste. This inventory has not been updated since June 1985.

Environmental Records Definitions - FEDERAL

RCRAT Resource Conservation & Recovery Act - Non-CORRACTS Treatment, Storage & Disposal Facilities
VERSION DATE: 03/23/20

The Resource Conservation and Recovery Act (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. This listing refers to facilities recognized as hazardous waste treatment, storage, and disposal sites (TSD).

SEMS Superfund Enterprise Management System
VERSION DATE: 04/23/20

The U.S. Environmental Protection Agency's (EPA) Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation (OSRTI), has implemented The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) to track and report on clean-up and enforcement activities taking place at Superfund sites. SEMS represents a joint development and ongoing collaboration between Superfund's Remedial, Removal, Federal Facilities, Enforcement and Emergency Response programs.

SEMSARCH Superfund Enterprise Management System Archived Site Inventory
VERSION DATE: 04/23/20

The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System Archived Site Inventory (List 8R Archived) replaced the CERCLIS NFRAP reporting system in 2015. This listing reflects sites at which the EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program.

SMCRA Surface Mining Control and Reclamation Act Sites
VERSION DATE: 11/26/19

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). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory 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.

USUMTRCA Uranium Mill Tailings Radiation Control Act Sites
VERSION DATE: 03/04/17

The Legacy Management Office of the Department of Energy (DOE) manages radioactive and chemical waste,

Environmental Records Definitions - FEDERAL

environmental contamination, and hazardous material at over 100 sites across the U.S. The L.M. Office manages this database of sites registered under the Uranium Mill Tailings Control Act (UMTRCA).

DOD Department of Defense Sites

VERSION DATE: 12/01/14

This information originates from the National Atlas of the United States Federal Lands data, which includes lands owned or administered by the Federal government. Army DOD, Army Corps of Engineers DOD, Air Force DOD, Navy DOD and Marine DOD areas of 640 acres or more are included.

FUDS Formerly Used Defense Sites

VERSION DATE: 12/31/18

The Formerly Used Defense Sites (FUDS) inventory includes properties previously owned by or leased to the United States and under Secretary of Defense Jurisdiction, as well as Munitions Response Areas (MRAs). The remediation of these properties is the responsibility of the Department of Defense. This data is provided by the U.S. Army Corps of Engineers (USACE), the boundaries/polygon data are based on preliminary findings and not all properties currently have polygon data available. DISCLAIMER: This data represents the results of data collection/processing for a specific USACE activity and is in no way to be considered comprehensive or to be used in any legal or official capacity as presented on this site. While the USACE has made a reasonable effort to insure the accuracy of the maps and associated data, it should be explicitly noted that USACE makes no warranty, representation or guaranty, either expressed or implied, as to the content, sequence, accuracy, timeliness or completeness of any of the data provided herein. For additional information on Formerly Used Defense Sites please contact the USACE Public Affairs Office at (202) 528-4285.

FUSRAP Formerly Utilized Sites Remedial Action Program

VERSION DATE: 03/04/17

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.

NLRRCRAC No Longer Regulated RCRA Corrective Action Facilities

VERSION DATE: 03/23/20

This database includes RCRA Corrective Action facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements.

Environmental Records Definitions - FEDERAL

NMS Former Military Nike Missile Sites

VERSION DATE: 12/01/84

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-1970s. 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 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.

NPL National Priorities List

VERSION DATE: 04/22/20

This database includes United States Environmental Protection Agency (EPA) National Priorities List sites that fall under the EPA's Superfund program, established to fund the cleanup of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action.

PNPL Proposed National Priorities List

VERSION DATE: 04/22/20

This database contains sites proposed to be included on the National Priorities List (NPL) in the Federal Register. The United States Environmental Protection Agency investigates these sites to determine if they may present long-term threats to public health or the environment.

RCRAC Resource Conservation & Recovery Act - Corrective Action Facilities

VERSION DATE: 03/23/20

The Resource Conservation and Recovery Act (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. This listing refers to facilities with corrective action activity.

RCRASUBC Resource Conservation & Recovery Act - Subject to Corrective Action Facilities

VERSION DATE: 03/23/20

Environmental Records Definitions - FEDERAL

The Resource Conservation and Recovery Act (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. This listing refers to facilities subject to corrective actions.

RODS Record of Decision System

VERSION DATE: 04/22/20

These decision documents maintained by the United States Environmental Protection Agency describe the chosen remedy for NPL (Superfund) site remediation. They also include site history, site description, site characteristics, community participation, enforcement activities, past and present activities, contaminated media, the contaminants present, and scope and role of response action.

Environmental Records Definitions - STATE (LA)

ASBESTOS

Asbestos Demolition and Renovation Notification Projects

VERSION DATE: 08/13/19

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.

CDL

Clandestine Drug Laboratory Locations

VERSION DATE: 01/30/18

This list of Clandestine Methamphetamine Labs is provided by the Louisiana Department of Environmental Quality. These residential real properties have been reported as potentially contaminated.

IC

Sites With Controls

VERSION DATE: 03/02/20

This site listing is maintained by the Louisiana Department of Environmental Quality's Remediation Division. Institutional controls (IC) are administrative and/or legal measures in place to safeguard the public and the environment from potential contamination. In certain circumstances, local zoning or ordinances can serve as an IC. This listing may also include locations where Engineering Controls are in effect, such as a cap, barrier, or other engineering device to prevent access, exposure, or continued migration of contamination.

LIENS

Listing of Louisiana DEQ Liens

VERSION DATE: 03/13/18

A listing of liens filed against properties by the Remediation Services Division of the Louisiana Department of Environmental Quality.

SPILLS

Spills Listing

VERSION DATE: 10/10/19

The Louisiana Department of Environmental Quality provides this database. Information includes releases of hazardous or potential hazardous chemical/materials into the environment.

WASTETIRE

Waste Tire Generator List

VERSION DATE: 02/03/20

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

Environmental Records Definitions - STATE (LA)

DCR Drycleaning Facilities

VERSION DATE: 03/18/20

This listing of drycleaning facilities was provided by the Louisiana Department of Environmental Quality.

NLRUST No Longer Reported Underground Storage Tanks

VERSION DATE: 02/01/04

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

UST Underground Storage Tanks

VERSION DATE: 04/28/20

The Underground Storage Tank database includes a listing of registered underground storage tanks maintained by the Louisiana Department of Environmental Quality.

ADS Approved Hurricane Debris Dump Sites

VERSION DATE: 10/28/19

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, woodwaste). These landfills include Type I (Non-hazardous Industrial), Type II (Municipal) and Type III (Construction and Demolition Debris and Wood Waste).

HLUST Historical Leaking Underground Storage Tanks

VERSION DATE: 03/26/99

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. Please refer to LUST database as source of current data.

LUST Leaking Underground Storage Tanks

VERSION DATE: 04/01/20

This database contains facilities with reported leaking underground storage tanks and is maintained by the by the Louisiana Department of Environmental Quality.

RCY Recycling Facilities

VERSION DATE: 02/12/20

Environmental Records Definitions - STATE (LA)

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

SWLF Solid Waste Landfills

VERSION DATE: 03/27/20

This Louisiana Department of Environmental Quality solid waste facility listing includes type I, II, and III landfills. A type I facility is used for the disposal of industrial solid waste. A type II facility is used for the disposal of residential or commercial solid waste. A type III facility is defined in LAC 33:VII.115 as a facility used for disposing or processing of construction/demolition debris or wood waste, composting organic waste to produce a usable material, or separating recyclable wastes. Residential, commercial, or industrial solid waste must not be disposed in a type III facility.

VRP Voluntary Remediation Program Sites

VERSION DATE: 03/02/20

The Louisiana Department of Environmental Quality's Voluntary Remediation Program (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.

WP Waste Pits

VERSION DATE: 01/01/99

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.

CPI Confirmed and Potential Sites Inventory

VERSION DATE: 04/01/20

The Inactive and Abandoned Sites Division of the Louisiana Department of Environmental Quality maintains the confirmed and potential sites inventory. This listing contains state-equivalent CERCLIS hazardous wastes sites.

Environmental Records Definitions - TRIBAL

USTR06 Underground Storage Tanks On Tribal Lands

VERSION DATE: 04/01/20

This database, provided by the United States Environmental Protection Agency (EPA), contains underground storage tanks on Tribal lands located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

LUSTR06 Leaking Underground Storage Tanks On Tribal Lands

VERSION DATE: 04/01/20

This database, provided by the United States Environmental Protection Agency (EPA), contains leaking underground storage tanks on Tribal lands located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

ODINDIAN Open Dump Inventory on Tribal Lands

VERSION DATE: 11/08/06

This Indian Health Service database contains information about facilities and sites on tribal lands where solid waste is disposed of, which are not sanitary landfills or hazardous waste disposal facilities, and which meet the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944).

INDIANRES Indian Reservations

VERSION DATE: 09/27/17

The Department of Interior and Bureau of Indian Affairs maintains this database that includes American Indian Reservations, off-reservation trust lands, public domain allotments, Alaska Native Regional Corporations and Recognized State Reservations.

GeoPlus Physical Setting Maps

Target Property:

***East Delacroix Marsh Creation and Terracing
Parish, Louisiana***

Prepared For:

Providence Engineering-Baton Rouge

Order #: 147751

Job #: 355230

Project #: 621-012

Date: 06/03/2020

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Target Property Summary

Target Property Information

*East Delacroix Marsh Creation and Terracing
Louisiana*

Coordinates

*Area centroid (-89.775009, 29.7701345)
0 feet above sea level*

USGS Quadrangle

Delacroix, LA

Geographic Coverage Information

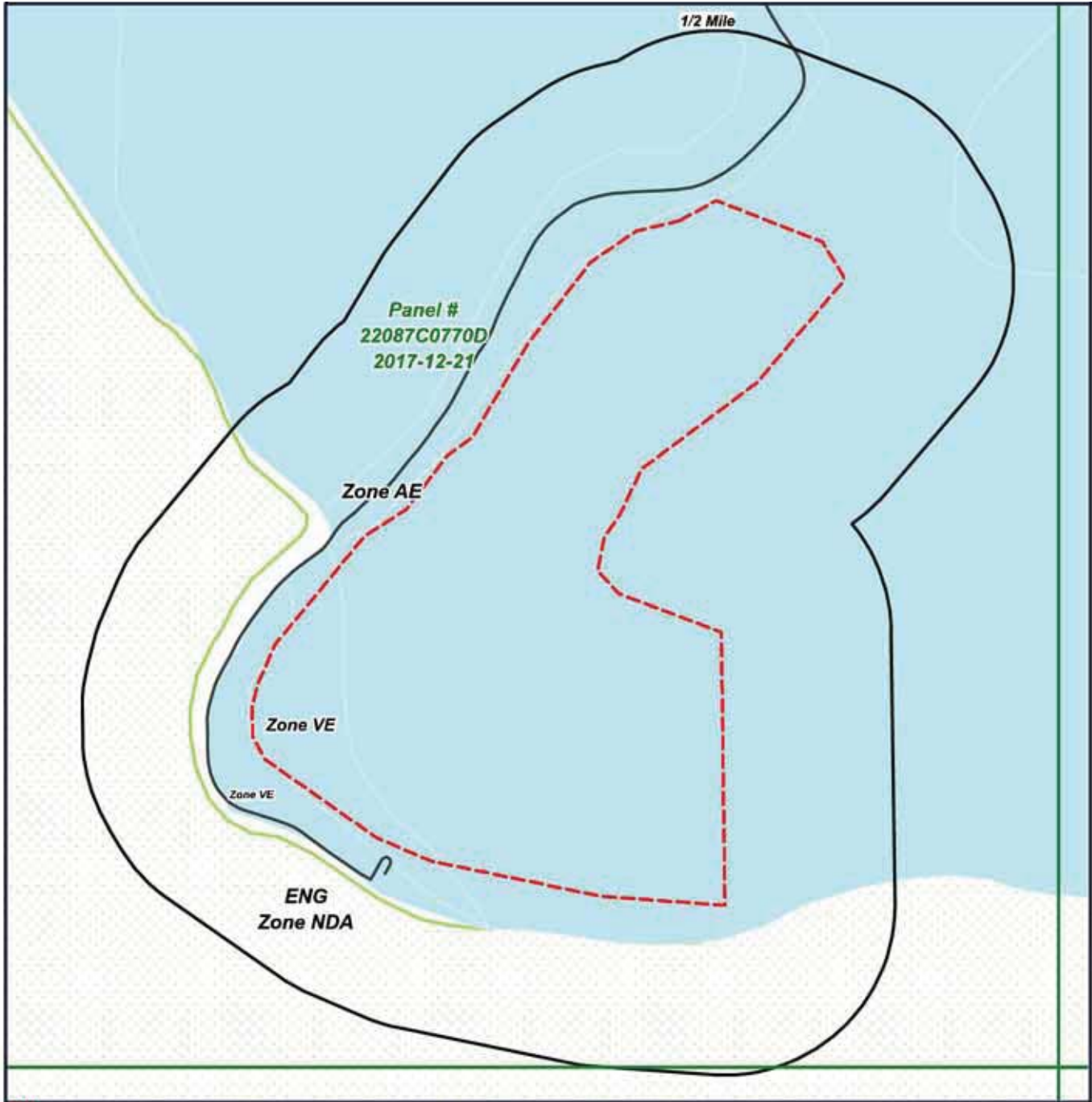
County/Parish: St. Bernard (LA) , Plaquemines (LA)

ZipCode(s):

Braithwaite LA: 70040

Saint Bernard LA: 70085

FEMA Map



Target Property (TP)

East Delacroix Marsh Creation and Terracing County, Louisiana

Letter of map revision date:
N/A
Latest study effective date:
5/16/2019



- Without Base Flood Elevation (BFE)
Zone A, V, A99
With BFE or Depth Zone AE, AO, AH, VE, AR
- Regulatory Floodway
- 0.2% Annual Chance Flood Hazard, Areas
of 1% annual chance flood with average
depth less than one foot or with drainage
areas of less than one square mile - Zone X
- Future Conditions 1% Annual
Chance Flood Hazard - Zone X

- Area with Reduced Flood Risk due to
Levee - Zone X
- Area with Flood Risk due to Levee - Zone D
- Digital Data Not Available

0' 1200' 2400' 3600'
SCALE: 1" = 2400'

FEMA Report

FEMA - Federal Emergency Management Agency

The National Flood Hazard Layer (NFHL) data used in this report is derived from the Federal Emergency Management Agency. The NFHL dataset is a compilation of effective Flood Insurance Rate Map (FIRM) databases (a collection of the digital data that are used in GIS systems for creating new Flood Insurance Rate Maps) and Letters of Map Change (Letters of Map Amendment and Letters of Map Revision only) that create a seamless GIS data layer for United States and its territories. The NFHL is updated as new study or LOMC data becomes effective. Note: Currently, not all areas have modernized FIRM database data available. As a result, users may need to refer to the effective Flood Insurance Rate Map for effective flood hazard information.

FEMA Flood Zone Definitions within Search Radius

NDA

Zone AE

Zone AE

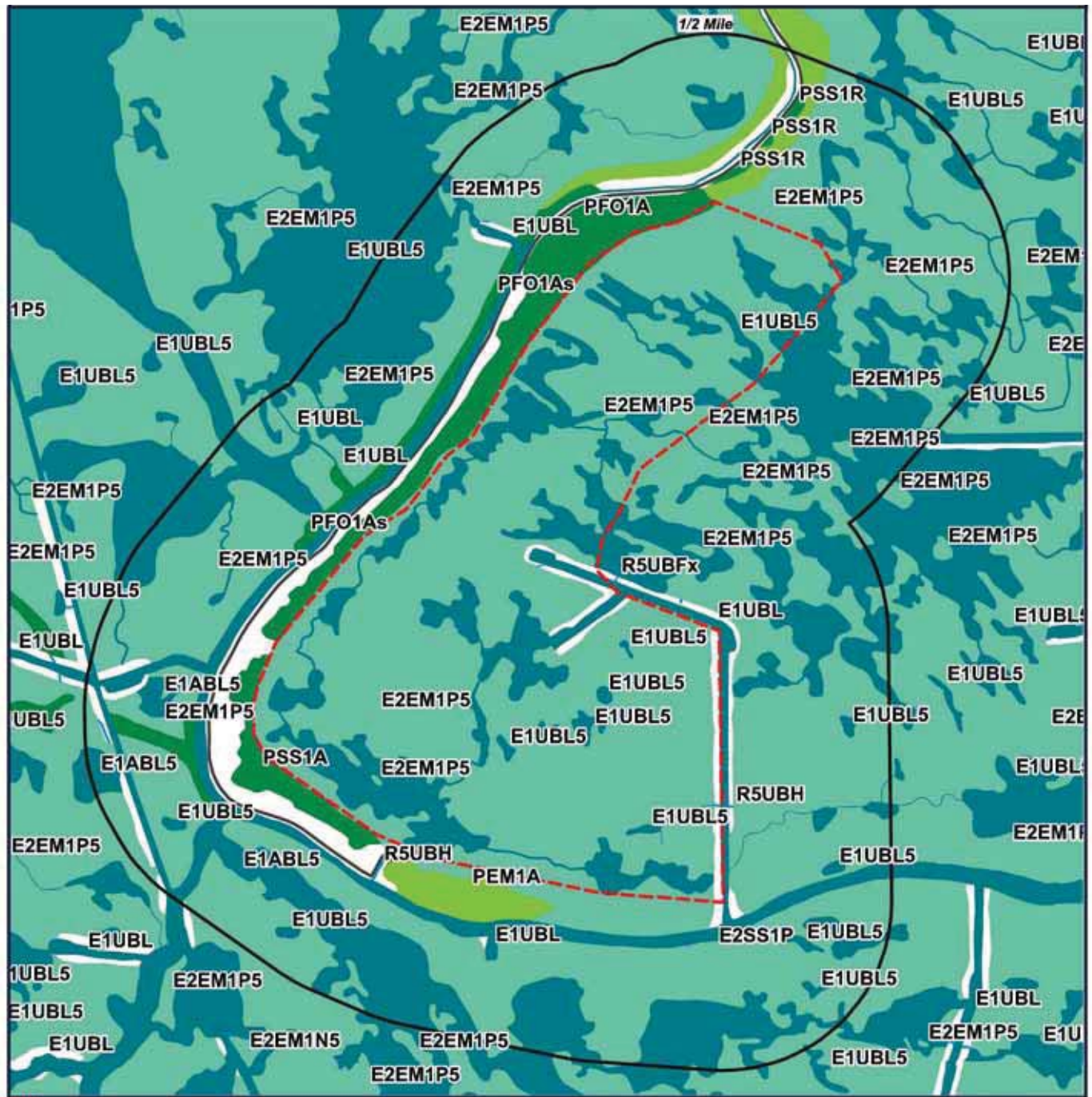
Areas subject to inundation by the 1-percent-annual-chance flood event determined by detailed methods. BFEs are shown within these zones. (Zone AE is used on new and revised maps in place of Zones A1–A30.)

Zone VE

Zone VE

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.)

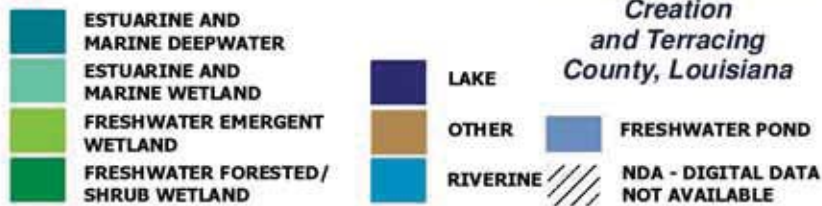
NWI Map



Target Property (TP)

East Delacroix Marsh Creation and Terracing County, Louisiana

Map Date: 05/01/2018



0' 1200' 2400' 3600'
SCALE: 1" = 2400'

NWI Report

NWI - National Wetlands Inventory

The US NWI digital data bundle is a set of records of wetlands location and classification as defined by the U.S. Fish & Wildlife Service. This dataset is one of a series available in 7.5 minute by 7.5 minute blocks containing ground planimetric coordinates of wetlands point, line, and area features and wetlands attributes. When completed, the series will provide coverage for all of the contiguous United States, Hawaii, Alaska, and U.S. protectorates in the Pacific and Caribbean. The digital data as well as the hardcopy maps that were used as the source for the digital data are produced and distributed by the U.S. Fish & Wildlife Service's National Wetlands Inventory project. Currently, this data is only available in select counties throughout the United States.

NWI Definitions within Search Radius

E1UBL

SYSTEM: **ESTUARINE**
SUBSYSTEM: **SUBTIDAL**
CLASS: **UNCONSOLIDATED BOTTOM**
WATER REGIME: **SUBTIDAL**

E1UBL5

SYSTEM: **ESTUARINE**
SUBSYSTEM: **SUBTIDAL**
CLASS: **UNCONSOLIDATED BOTTOM**
WATER REGIME: **SUBTIDAL**

E2EM1P5

SYSTEM: **ESTUARINE**
SUBSYSTEM: **INTERTIDAL**
CLASS: **EMERGENT**

PSS1A

SYSTEM: **PALUSTRINE**
CLASS: **SCRUB-SHRUB**
SUBCLASS: **BROAD-LEAVED DECIDUOUS**
WATER REGIME: **TEMPORARILY FLOODED**

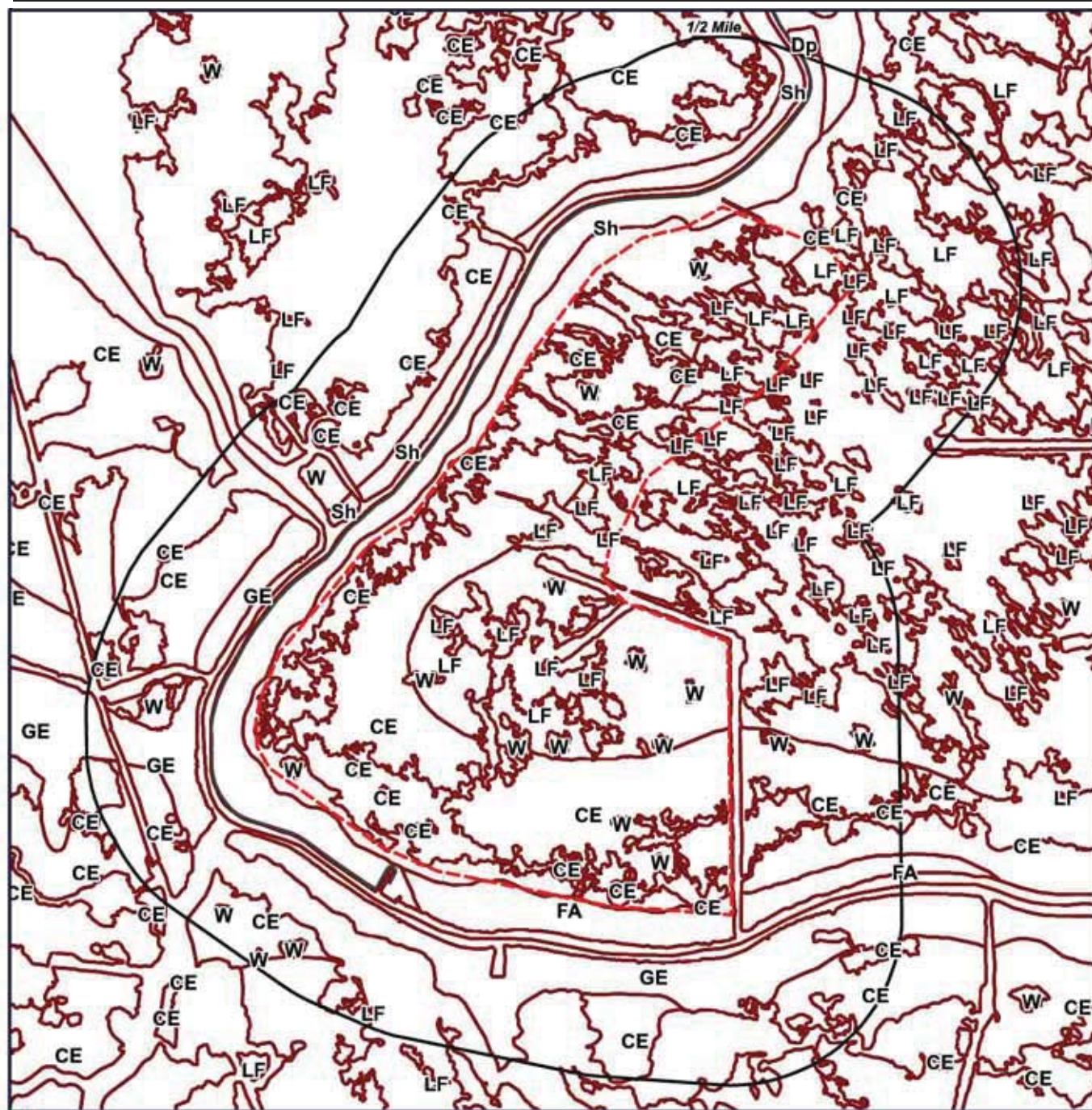
R5UBFx

SYSTEM: **RIVERINE**
SUBSYSTEM: **UNKNOWN PERENNIAL**
CLASS: **UNCONSOLIDATED BOTTOM**
WATER REGIME: **SEMIPERMANENTLY FLOODED**
SPECIAL MODIFIER: **EXCAVATED**

R5UBH

SYSTEM: **RIVERINE**
SUBSYSTEM: **UNKNOWN PERENNIAL**
CLASS: **UNCONSOLIDATED BOTTOM**
WATER REGIME: **PERMANENTLY FLOODED**

Soil Map



Target Property (TP)



SOIL BOUNDARY

NOTCOM - DIGITAL DATA NOT AVAILABLE/NOT COMPLETE

**East Delacroix Marsh
Creation
and Terracing
County, Louisiana**



0 1200 2400 3600
SCALE: 1" = 2400'

SOIL Report

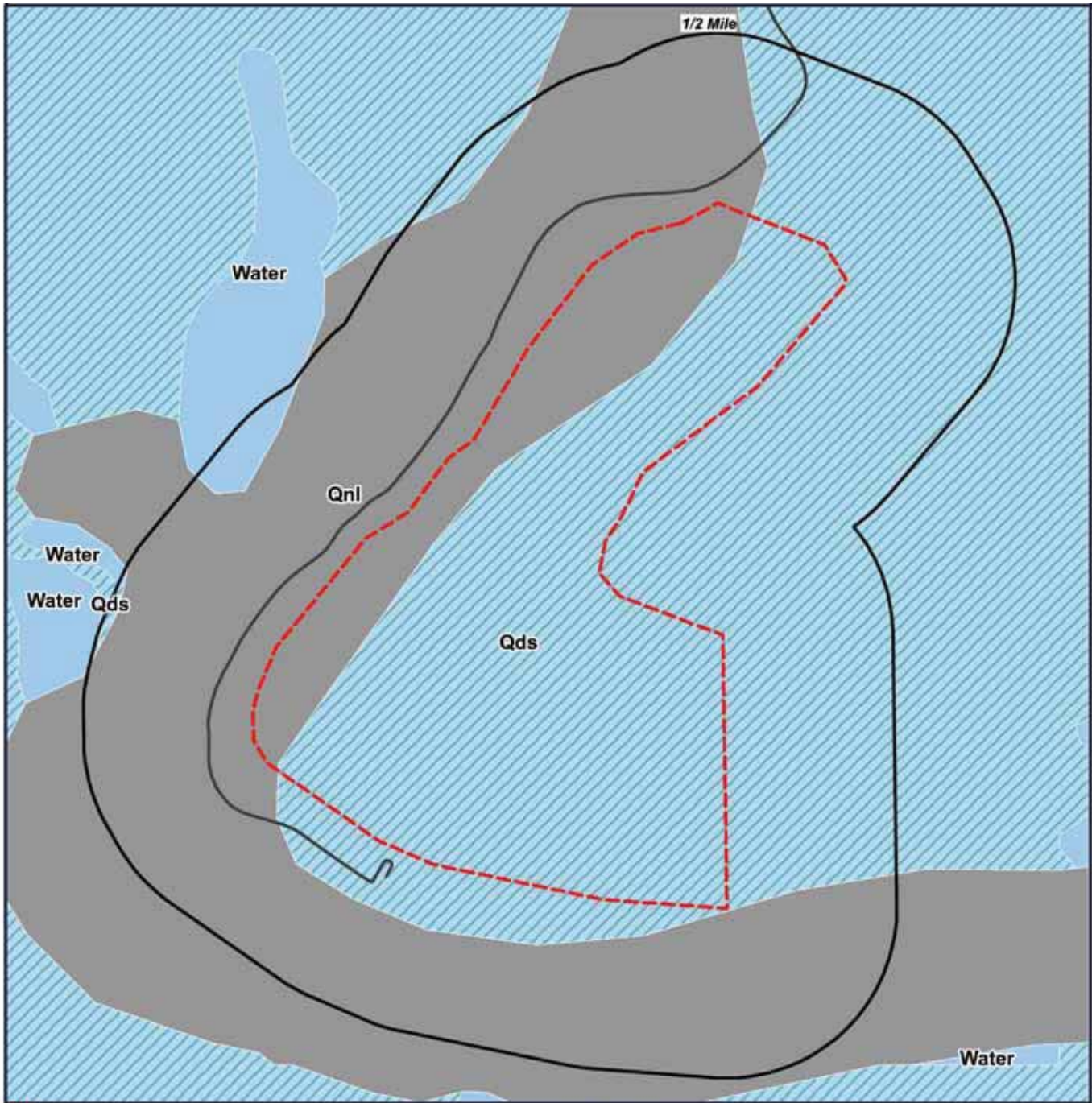
Soil Surveys


The soil data used in this report is obtained from the Natural Resources Conservation Service (NRCS). The NRCS is the primary federal agency that works with private landowners to help them conserve, maintain and improve their natural resources. The soil survey contains information that can be applied in managing farms and ranches; in selecting sites for roads, ponds, buildings and other structures; and in determining the suitability of tracts of land for farming, industry and recreation. This data is available in select counties throughout the United States.

SOIL Code Definitions within Search Radius

W	Water
CE	Clovelly muck, 0 to 0.2 percent slopes, very frequently flooded
FA	Fausse clay, saline
LF	Lafitte muck, 0 to 0.2 percent slopes, very frequently flooded
Sh	Schriever silty clay loam, 0 to 1 percent slopes

Geology Map



 Target Property (TP)

**East Delacroix Marsh
Creation
and Terracing
County, Louisiana**



0' 1200' 2400' 3600'
SCALE: 1" = 2400'

GEOLOGY Report

US GEOLOGY

THE GEOLOGY DATA USED IN THIS REPORT ORIGINATES FROM THE USGS. THE FIRST STAGE IN DEVELOPING STATE DATABASES FOR THE CONTERMINOUS UNITED STATES WAS TO ACQUIRE DIGITAL VERSIONS OF ALL EXISTING STATE GEOLOGIC MAPS. ALTHOUGH A SIGNIFICANT NUMBER OF DIGITAL STATE MAPS ALREADY EXISTED, A NUMBER OF STATES LACKED THEM. FOR THESE STATES NEW DIGITAL COMPILATIONS WERE PREPARED IN COOPERATION WITH STATE GEOLOGIC SURVEYS OR BY THE NSA (NATIONAL SURVEYS AND ANALYSIS) PROJECT. THESE NEW DIGITAL STATE GEOLOGIC MAPS AND DATABASES WERE CREATED BY DIGITIZING ALREADY EXISTING PRINTED MAPS, OR, IN A FEW CASES, BY MERGING EXISTING LARGER SCALE DIGITAL MAPS.

GEOLOGY Definitions within Search Radius

GEOLOGY SYMBOL: **Qds**

UNIT NAME: **Delta Plain, Saline Marsh**

UNIT AGE: **Phanerozoic | Cenozoic | Quaternary | Holocene**

UNIT DESCRIPTION:

gray to black clay of very high organic content, some peat.

ADDITIONAL UNIT INFORMATION:

Area of active and abandoned delta lobes of the Mississippi River.

ROCKTYPE/S: **clay or mud; peat;**

GEOLOGY SYMBOL: **Qnl**

UNIT NAME: **Natural Levees**

UNIT AGE: **Phanerozoic | Cenozoic | Quaternary | Holocene**

UNIT DESCRIPTION:

gray and brown silt, silty clay, some very fine sand, reddish brown along the Red River.

ADDITIONAL UNIT INFORMATION:

Shown only on past and present courses of major streams.

ROCKTYPE/S: **silt; clay or mud; sand**

APPENDIX C

REGISTERED WATER WELL AND OIL AND GAS WELL INFORMATION

GeoPlus Water Well Report

[GeoLens by GeoSearch](#)

Target Property:
East Delacroix Marsh Creation and Terracing
Parish, Louisiana

Prepared For:
Providence Engineering-Baton Rouge

Order #: 147751
Job #: 355226
Project #: 621-012
Date: 06/03/2020

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Target Property Summary

Target Property Information

East Delacroix Marsh Creation and Terracing
Louisiana

Coordinates
Area centroid (-89.775009, 29.7701345)
0 feet above sea level

USGS Quadrangle
Delacroix, LA

Geographic Coverage Information

County/Parish: St. Bernard (LA) , Plaquemines (LA)
ZipCode(s):
Braithwaite LA: 70040
Saint Bernard LA: 70085

Database Radius Summary

FEDERAL LISTING

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
NWIS	0.5000	0	1	1	0	NS	NS	2
SUB-TOTAL		0	1	1	0	0	0	2

Database Radius Summary

STATE (LA) LISTING

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
WW	0.5000	0	1	1	0	NS	NS	2

SUB-TOTAL		0	1	1	0	0	0	2
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TOTAL		0	2	2	0	0	0	4
-------	--	---	---	---	---	---	---	---

NOTES:

NS = NOT SEARCHED

TP/AP = TARGET PROPERTY/ADJACENT PROPERTY

Waterwell Map

Located Sites Summary

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address	PAGE #
1	NWIS	USGS_294554089472401	Equal (0 ft.)	0.027 mi. W (143 ft.)	SB-9		8
1	WW	00104392	Equal (0 ft.)	0.023 mi. W (121 ft.)	DELACROIX WATER	ST BERNARD COUNTY, SAINT BERNARD, LA 70085	9
2	NWIS	USGS_294530089471101	Higher (1 ft.)	0.172 mi. SW (908 ft.)	PL-28		10
2	WW	00093789	Higher (1 ft.)	0.182 mi. SW (961 ft.)	DUNBAR & LOPEZ	PLAQUEMINES COUNTY, BRAITHWAITE, LA 70040	11

Site Summary By Database

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address
1	NWIS	USGS_294554089472401	Equal (0 ft.)	0.027 mi. W (143 ft.)	SB-9	
2	NWIS	USGS_294530089471101	Higher (1 ft.)	0.172 mi. SW (908 ft.)	PL-28	
1	WW	00104392	Equal (0 ft.)	0.023 mi. W (121 ft.)	DELACROIX WATER	ST BERNARD COUNTY, SAINT BERNARD, LA 70085
2	WW	00093789	Higher (1 ft.)	0.182 mi. SW (961 ft.)	DUNBAR & LOPEZ	PLAQUEMINES COUNTY, BRAITHWAITE, LA 70040

Elevation Summary

Elevations are collected from the USGS 3D Elevation Program 1/3 arc-second (approximately 10 meters) layer hosted at the NGTOC. .

Target Property Elevation: 0 ft.

EQUAL/HIGHER ELEVATION

Map ID#	Database Name	Elevation	Site Name	Address	Page #
1	NWIS	0 ft.	SB-9		8
1	WW	0 ft.	DELACROIX WATER	ST BERNARD COUNTY, SAINT BERNARD, LA 70085	9
2	NWIS	1 ft.	PL-28		10
2	WW	1 ft.	DUNBAR & LOPEZ	PLAQUEMINES COUNTY, BRAITHWAITE, LA 70040	11

LOWER ELEVATION

No Records Found

United States Geological Survey National Water Information System (NWIS)

[MAP ID# 1](#)

Distance from Property: 0.027 mi. (143 ft.) W
Elevation: 0 ft. (Equal to TP)

GEOSEARCH ID: USGS_294554089472401
REPORTING AGENCY: US GEOLOGICAL SURVEY
SITE IDENTIFICATION NUMBER: 294554089472401
STATION NAME: SB-9
SITE TYPE: GW
LATITUDE: 29.765209200
LONGITUDE: -89.790063400
DISTRICT CODE: 22
STATE CODE: 22
COUNTY CODE: 087
COUNTRY CODE: US
LAND NET LOCATION DESCRIPTION: S003T
NAME OF LOCATION MAP: CHALMETTE 200A
SCALE OF LOCATION MAP: NOT REPORTED
DATE OF FIRST CONSTRUCTION: 08/01/1949
DATE SITE ESTABLISHED OR INVENTORIED: NOT REPORTED
LOCAL AQUIFER: GRAMERCY AQUIFER
WELL DEPTH: 384 FEET
HOLE DEPTH: 384 FEET
SOURCE OF DEPTH DATA: NOT REPORTED
PROJECT NUMBER: NOT REPORTED
PEAK-STREAMFLOW DATA BEGIN DATE: --
PEAK-STREAMFLOW DATA END DATE: --
PEAK-STREAMFLOW DATA COUNT: 0
WATER-QUALITY DATA BEGIN DATE: 1949-08-29
WATER-QUALITY DATA END DATE: 1949-08-29
WATER-QUALITY DATA COUNT: 1
FIELD WATER-LEVEL MEASUREMENTS BEGIN DATE: 1949-08-01
FIELD WATER-LEVEL MEASUREMENTS END DATE: 1949-08-01
FIELD WATER-LEVEL MEASUREMENTS COUNT: 1
SITE-VISIT DATA BEGIN DATE: --
SITE-VISIT DATA END DATE: --
SITE-VISIT DATA COUNT: 0

[Back to Report Summary](#)

Louisiana Water Well Registry (WW)

[MAP ID# 1](#)

Distance from Property: 0.023 mi. (121 ft.) W
Elevation: 0 ft. (Equal to TP)

ID NUMBER: 00104392
LOCAL WELL: 9
PARISH NUM: 087
OWNER NAME: DELACROIX WATER
WELL USE: TEST HOLE
USE DESCRIPTION: TEST HOLE
DRILLER NAME: CLEMARD
WELL STATUS: ACTIVE
WELL DEPTH: 384
WATER LEVEL: 0.00
YIELD: NOT REPORTED
HOLE DEPTH: 384
ELEVATION: 2
PLUGGED BY: NOT REPORTED
DATE PLUGGED: NOT REPORTED
DATE COMPLETED: 08/49
DRAWDOWN: NOT REPORTED
CASING DIAMETER: NOT REPORTED
CASING MATERIAL: NOT REPORTED
SCREEN DIAMETER: NOT REPORTED
SCREEN INTERVAL: NOT REPORTED
GEOLOGIC UNIT: 112GRMC
QUAD NUM: 200D
TOWNSHIP/SECTION/RANGE: 15S 003 14E
LATITUDE: 29.765000000 LONGITUDE: -89.790000000

[Back to Report Summary](#)

United States Geological Survey National Water Information System (NWIS)

[MAP ID# 2](#)

Distance from Property: 0.172 mi. (908 ft.) SW
Elevation: 1 ft. (Higher than TP)

GEOSEARCH ID: USGS_294530089471101
REPORTING AGENCY: US GEOLOGICAL SURVEY
SITE IDENTIFICATION NUMBER: 294530089471101
STATION NAME: PL-28
SITE TYPE: GW
LATITUDE: 29.758542800
LONGITUDE: -89.786452200
DISTRICT CODE: 22
STATE CODE: 22
COUNTY CODE: 075
COUNTRY CODE: US
LAND NET LOCATION DESCRIPTION: S 10T
NAME OF LOCATION MAP: DELACROIX 200D
SCALE OF LOCATION MAP: NOT REPORTED
DATE OF FIRST CONSTRUCTION: 01/01/1909
DATE SITE ESTABLISHED OR INVENTORIED: NOT REPORTED
LOCAL AQUIFER: GRAMERCY AQUIFER
WELL DEPTH: 400 FEET
HOLE DEPTH: 1700 FEET
SOURCE OF DEPTH DATA: NOT REPORTED
PROJECT NUMBER: NOT REPORTED
PEAK-STREAMFLOW DATA BEGIN DATE: --
PEAK-STREAMFLOW DATA END DATE: --
PEAK-STREAMFLOW DATA COUNT: 0
WATER-QUALITY DATA BEGIN DATE: 1931-06-22
WATER-QUALITY DATA END DATE: 1931-06-22
WATER-QUALITY DATA COUNT: 1
FIELD WATER-LEVEL MEASUREMENTS BEGIN DATE: --
FIELD WATER-LEVEL MEASUREMENTS END DATE: --
FIELD WATER-LEVEL MEASUREMENTS COUNT: 0
SITE-VISIT DATA BEGIN DATE: --
SITE-VISIT DATA END DATE: --
SITE-VISIT DATA COUNT: 0

[Back to Report Summary](#)

Louisiana Water Well Registry (WW)

[MAP ID# 2](#)

Distance from Property: 0.182 mi. (961 ft.) SW
Elevation: 1 ft. (Higher than TP)

ID NUMBER: 00093789
LOCAL WELL: 28
PARISH NUM: 075
OWNER NAME: DUNBAR & LOPEZ
WELL USE: INDUSTRIAL
USE DESCRIPTION: ABANDONED INDUSTRIAL
DRILLER NAME: UNKNOWN
WELL STATUS: ABANDONED
WELL DEPTH: 400
WATER LEVEL: 0.00
YIELD: NOT REPORTED
HOLE DEPTH: 1700
ELEVATION: 1
PLUGGED BY: NOT REPORTED
DATE PLUGGED: NOT REPORTED
DATE COMPLETED: 1909
DRAWDOWN: NOT REPORTED
CASING DIAMETER: NOT REPORTED
CASING MATERIAL: METAL
SCREEN DIAMETER: NOT REPORTED
SCREEN INTERVAL: NOT REPORTED
GEOLOGIC UNIT: 112GRMC
QUAD NUM: 200D
TOWNSHIP/SECTION/RANGE: 15S 010 14E
LATITUDE: 29.758333000 LONGITUDE: -89.786389000

[Back to Report Summary](#)

Environmental Records Definitions - FEDERAL

NWIS

United States Geological Survey National Water Information System

VERSION DATE: 01/02/20

The U.S. Geological Survey (USGS) National Water Information System (NWIS) includes water inventory data originating from all 50 states, plus border and territorial sites, including data from as early as 1899. This database includes selected site types limited to Groundwater Sites and Spring Sites from the 1.5 million plus sites within NWIS. Surface-Water, Atmospheric, and Other Site types are excluded. Disclaimer: Water Data for the Nation is the USGS public web interface to much of the data stored and managed within NWIS. It is not, however, configured to present all NWIS data and users may need to contact local Water Science Centers to obtain some information. NWIS data is updated on a regularly scheduled basis, and current condition data is generally updated upon receipt at local Water Science Centers.

Environmental Records Definitions - STATE (LA)

WW

Louisiana Water Well Registry

VERSION DATE: 04/13/20

The Statewide Water Well Registration data file is maintained by the Louisiana Department of Natural Resources, Office of Conservation (DNR). This database includes wells registered with the Louisiana Department of Transportation and Development (DOTD), along with the Louisiana District of the United States Geological Survey, prior to March 1, 2010 and wells registered with the DNR after March 1, 2010. The information has been carefully prepared from the best available sources of data. It is intended for general informational purposes only and should not be considered authoritative for navigational, engineering, other site-specific uses, or any other uses. The DNR does not warrant or guarantee its accuracy, nor does DNR assume any responsibility or liability for any reliance thereon.

GeoPlus Oil & Gas Report

[GeoLens by GeoSearch](#)

Target Property:
***East Delacroix Marsh Creation and Terracing
Parish, Louisiana***

Prepared For:
Providence Engineering-Baton Rouge

***Order #: 147751
Job #: 355227
Project #: 621-012
Date: 06/03/2020***

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Target Property Summary

Target Property Information

*East Delacroix Marsh Creation and Terracing
Louisiana*

Coordinates

Area centroid (-89.775009, 29.7701345)

USGS Quadrangle

Delacroix, LA

Geographic Coverage Information

County/Parish: St. Bernard (LA) , Plaquemines (LA)

ZipCode(s):

Braithwaite LA: 70040

Saint Bernard LA: 70085

Database Radius Summary

STATE (LA) LISTING

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
OG	0.5000	3	1	2	6	NS	NS	12

SUB-TOTAL		3	1	2	6	0	0	12
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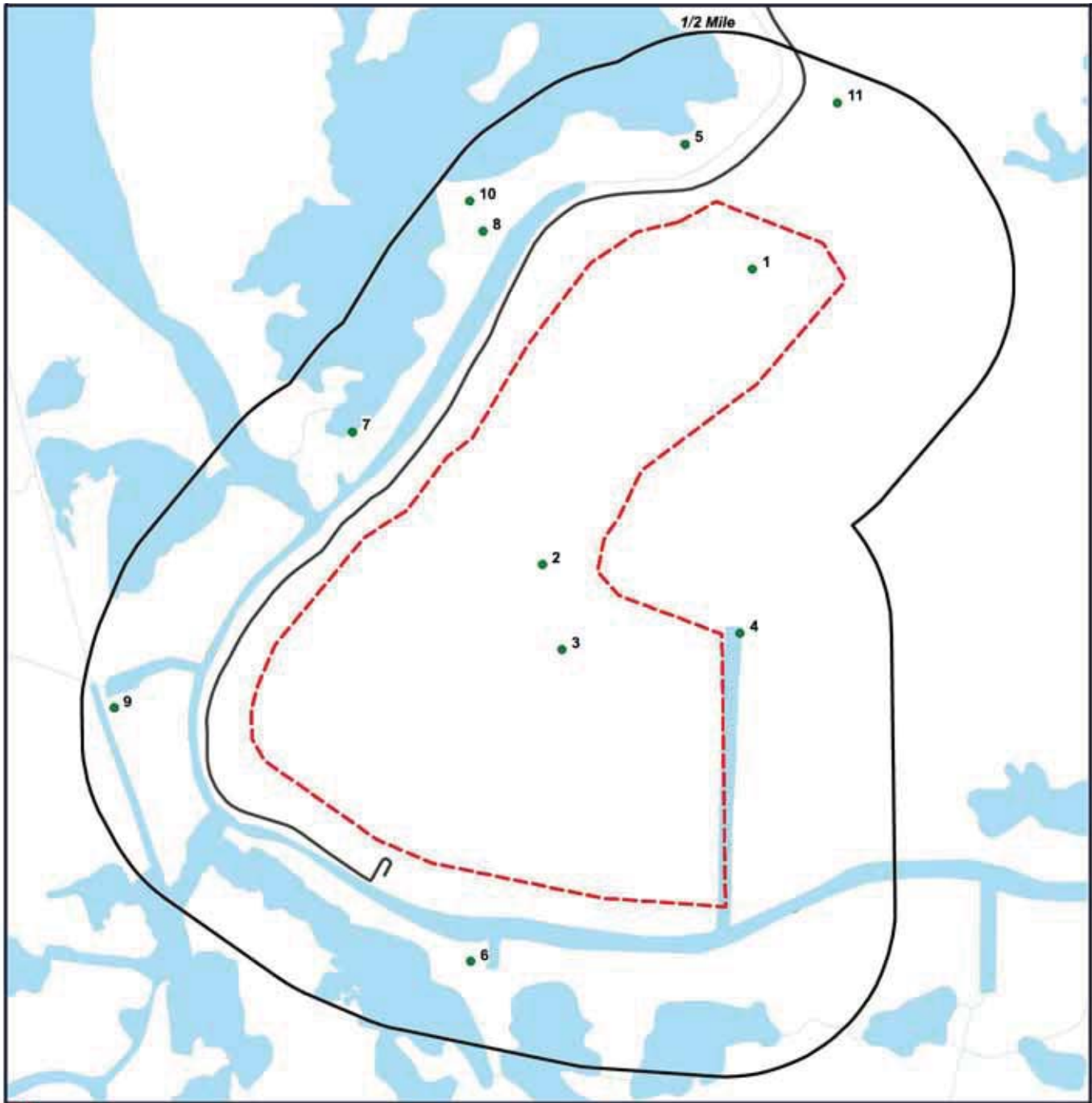
TOTAL		3	1	2	6	0	0	12
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NOTES:

NS = NOT SEARCHED

TP/AP = TARGET PROPERTY/ADJACENT PROPERTY

OIL & GAS WELL MAP



Located Sites Summary

Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address
1	OG	16262	TP	LAKE BORGNE LEVEE BOARD	ST BERNARD COUNTY, SAINT BERNARD, LA 70085
2	OG	151082	TP	LOREN PORTIE	ST BERNARD COUNTY, SAINT BERNARD, LA 70085
3	OG	172658	TP	LOREN PORTIE	ST BERNARD COUNTY, SAINT BERNARD, LA 70085
4	OG	135494	0.060 mi. ENE (317 ft.)	L PORTIE	ST BERNARD COUNTY, SAINT BERNARD, LA 70085
5	OG	16256	0.213 mi. NNW (1125 ft.)	DELACROIX CORP	ST BERNARD COUNTY, SAINT BERNARD, LA 70085
6	OG	103427	0.239 mi. SSW (1262 ft.)	ALEXANDER MENENDEZ	PLAQUEMINES COUNTY, BRAITHWAITE, LA 70040
7	OG	233686	0.279 mi. WNW (1473 ft.)	COASTAL CORP	ST BERNARD COUNTY, SAINT BERNARD, LA 70085
7	OG	233863	0.280 mi. WNW (1478 ft.)	COASTAL CORP	ST BERNARD COUNTY, SAINT BERNARD, LA 70085
8	OG	64792	0.322 mi. NW (1700 ft.)	COASTAL CORPORATION	ST BERNARD COUNTY, SAINT BERNARD, LA 70085
9	OG	44874	0.405 mi. W (2138 ft.)	HUMBLE U VAUGHN F PORTIE ET AL	PLAQUEMINES COUNTY, BRAITHWAITE, LA 70040
10	OG	16266	0.408 mi. NW (2154 ft.)	DANL ESTAPINAL	ST BERNARD COUNTY, SAINT BERNARD, LA 70085
11	OG	16263	0.422 mi. NNE (2228 ft.)	LAKE BORGNE LEVEE BOARD	ST BERNARD COUNTY, SAINT BERNARD, LA 70085

Site Summary By Database

Map ID#	Database Name	Site ID#	Elevation	Distance From Site	Site Name	Address
1	OG	16262	0 ft.	TP	LAKE BORGNE LEVEE BOARD	ST BERNARD COUNTY, SAINT BERNARD, LA 70085
2	OG	151082	0 ft.	TP	LOREN PORTIE	ST BERNARD COUNTY, SAINT BERNARD, LA 70085
3	OG	172658	0 ft.	TP	LOREN PORTIE	ST BERNARD COUNTY, SAINT BERNARD, LA 70085
4	OG	135494	1 ft.	0.060 mi. ENE (317 ft.)	L PORTIE	ST BERNARD COUNTY, SAINT BERNARD, LA 70085
5	OG	16256	0 ft.	0.213 mi. NNW (1125 ft.)	DELACROIX CORP	ST BERNARD COUNTY, SAINT BERNARD, LA 70085
6	OG	103427	2 ft.	0.239 mi. SSW (1262 ft.)	ALEXANDER MENENDEZ	PLAQUEMINES COUNTY, BRAITHWAITE, LA 70040
7	OG	233686	0 ft.	0.279 mi. WNW (1473 ft.)	COASTAL CORP	ST BERNARD COUNTY, SAINT BERNARD, LA 70085
7	OG	233863	0 ft.	0.280 mi. WNW (1478 ft.)	COASTAL CORP	ST BERNARD COUNTY, SAINT BERNARD, LA 70085
8	OG	64792	1 ft.	0.322 mi. NW (1700 ft.)	COASTAL CORPORATION	ST BERNARD COUNTY, SAINT BERNARD, LA 70085
9	OG	44874	0 ft.	0.405 mi. W (2138 ft.)	HUMBLE U VAUGHN F PORTIE ET AL	PLAQUEMINES COUNTY, BRAITHWAITE, LA 70040
10	OG	16266	0 ft.	0.408 mi. NW (2154 ft.)	DANL ESTAPINAL	ST BERNARD COUNTY, SAINT BERNARD, LA 70085
11	OG	16263	1 ft.	0.422 mi. NNE (2228 ft.)	LAKE BORGNE LEVEE BOARD	ST BERNARD COUNTY, SAINT BERNARD, LA 70085

Oil & Gas Well Report

MAP ID	API #	WELL NAME AND NUMBER	WELL TYPE	PERMIT DATE	SPUD DATE	COMP. DATE	T.D.	STR	LATITUDE	LONGITUDE
1	00000000000000	LAKE BORGNE LEVEE BOARD	NO PRODUCT SPECIFIED	08/04/33	NR	NR	0	T14S S136 R14	29.7844	-89.7650
2	17087201220000	LOREN PORTIE	GAS	01/13/76	02/28/76	06/17/76	12075	T15S S37 R14	29.7718	-89.7753
3	17087202090000	LOREN PORTIE	NO PRODUCT SPECIFIED	12/10/80	01/19/81	02/26/81	12010	T15S S37 R14	29.7681	-89.7744
4	17087200680000	L PORTIE	NO PRODUCT SPECIFIED	12/02/70	12/28/70	02/04/71	12497	T15S S37 R14	29.7689	-89.7656
5	00000000000000	DELACROIX CORP	NO PRODUCT SPECIFIED	08/04/33	NR	NR	0	T14S S137 R14	29.7897	-89.7683
6	17075039910000	ALEXANDER MENENDEZ	NO PRODUCT SPECIFIED	06/23/64	07/10/64	07/25/64	10128	T15S S10 R14	29.7549	-89.7788
7	17087203710000	COASTAL CORP	NO PRODUCT SPECIFIED	06/23/06	07/18/06	NR	11292	T15S S38 R14	29.7774	-89.7846
7	17087203720000	COASTAL CORP	NO PRODUCT SPECIFIED	07/24/06	NR	NR	11820	T15S S38 R14	29.7774	-89.7846
8	17087000440000	COASTAL CORPORATION	NO PRODUCT SPECIFIED	01/22/57	02/04/57	04/19/57	10470	T14S S137 R14	29.7860	-89.7782
9	17075000330000	HUMBLE U VAUGHN F PORTIE ET AL	NO PRODUCT SPECIFIED	12/14/51	12/31/51	03/11/52	12933	T15S S9 R14	29.7657	-89.7963
10	00000000000000	DANL ESTAPINAL	NO PRODUCT SPECIFIED	08/04/33	NR	NR	0	T14S S137 R14	29.7872	-89.7789
11	00000000000000	LAKE BORGNE LEVEE BOARD	NO PRODUCT SPECIFIED	08/04/33	NR	NR	0	T14S S136 R14	29.7914	-89.7608

Environmental Records Definitions - STATE (LA)

OG

Oil and Gas Wells

VERSION DATE: 03/25/20

This database contains over 230,000 permitted oil and gas wells and is maintained by the Louisiana Department of Natural Resources, Office of Conservation. The information has been carefully prepared from the best available sources of data. It is intended for general informational purposes only and should not be considered authoritative for navigational, engineering, other site-specific uses, or any other uses. The Louisiana Department of Natural Resources (DNR) does not warrant or guarantee its accuracy, nor does DNR assume any responsibility or liability for any reliance thereon.

APPENDIX D
HISTORICAL AERIAL PHOTOGRAPHS

Historical Aerial Photographs

[NEW: GeoLens by Geosearch](#)

Target Property:

East Delacroix Marsh Creation and Terracing

, , Louisiana

Prepared For:

Providence Engineering-Baton Rouge

Order #: 147751

Job #: 355225

Project #: 621-012

Date: 6/11/2020

Target Property Summary

East Delacroix Marsh Creation and Terracing

, , Louisiana

USGS Quadrangle: **Delacroix**

Target Property Geometry: **Area**

Target Property Longitude(s)/Latitude(s):

(-89.768622000, 29.786091000), (-89.770737000, 29.785654000), (-89.772993000, 29.784309000),
(-89.776096000, 29.780820000), (-89.778805000, 29.776862000), (-89.780040000, 29.776066000),
(-89.782033000, 29.773765000), (-89.784106000, 29.772641000), (-89.788490000, 29.768039000),
(-89.789352000, 29.766269000), (-89.789620000, 29.765327000), (-89.789594000, 29.764073000),
(-89.788964000, 29.763115000), (-89.783504000, 29.759794000), (-89.780788000, 29.758781000),
(-89.772438000, 29.757287000), (-89.766381000, 29.756908000), (-89.766563000, 29.768534000),
(-89.771613000, 29.770183000), (-89.772654000, 29.771182000), (-89.772327000, 29.772587000),
(-89.771590000, 29.773522000), (-89.770470000, 29.775506000), (-89.764824000, 29.779175000),
(-89.760565000, 29.783511000), (-89.760565000, 29.783588000), (-89.760565000, 29.783717000),
(-89.761600000, 29.785179000), (-89.766833000, 29.786950000)

Aerial Research Summary

<i>Date</i>	<i>Source</i>	<i>Scale</i>	<i>Frame</i>
2017	USDA	1" = 1000'	N/A
2015	USDA	1" = 1000'	N/A
2013	USDA	1" = 1000'	N/A
2010	USDA	1" = 1000'	N/A
2009	USDA	1" = 1000'	N/A
2007	USDA	1" = 1000'	N/A
10/27/2005	USGS	1" = 1000'	N/A
01/21/2004	USGS	1" = 1000'	N/A
02/23/1998	USGS	1" = 1000'	N/A
10/26/1989	USGS	1" = 1000'	1394-82
10/27/1983	USGS	1" = 1000'	757-35
03/27/1978	USGS	1" = 1000'	3-10
10/11/1971	USGS	1" = 1000'	1-93
04/28/1965	USGS	1" = 1000'	1-113
02/22/1956	AMS	1" = 1000'	114
02/05/1952	ASCS	1" = 1000'	V2-37

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East Delacroix Marsh Creation and Terracing
USDA
2015





East Delacroix Marsh Creation and Terracing
USDA
2013





East Delacroix Marsh Creation and Terracing
USDA
2010





0 1,000
feet



East Delacroix Marsh Creation and Terracing
USDA
2007







East Delacroix Marsh Creation and Terracing
USGS
01/21/2004





0 1,000
feet



East Delacroix Marsh Creation and Terracing
USGS
02/23/1998

GeoSearch





0 1,000
feet









East Delacroix Marsh Creation and Terracing
AMS
02/22/1956





APPENDIX E
HISTORICAL TOPOGRAPHIC MAPS

Historical Topographic Maps

[NEW: GeoLens by Geosearch](#)

Target Property:

East Delacroix Marsh Creation and Terracing

, , Louisiana

Prepared For:

Providence Engineering-Baton Rouge

Order #: 147751

Job #: 355224

Project #: 621-012

Date: 6/5/2020

Target Property Summary

East Delacroix Marsh Creation and Terracing

, , Louisiana

USGS Quadrangle: **Delacroix**

Target Property Geometry: **Area**

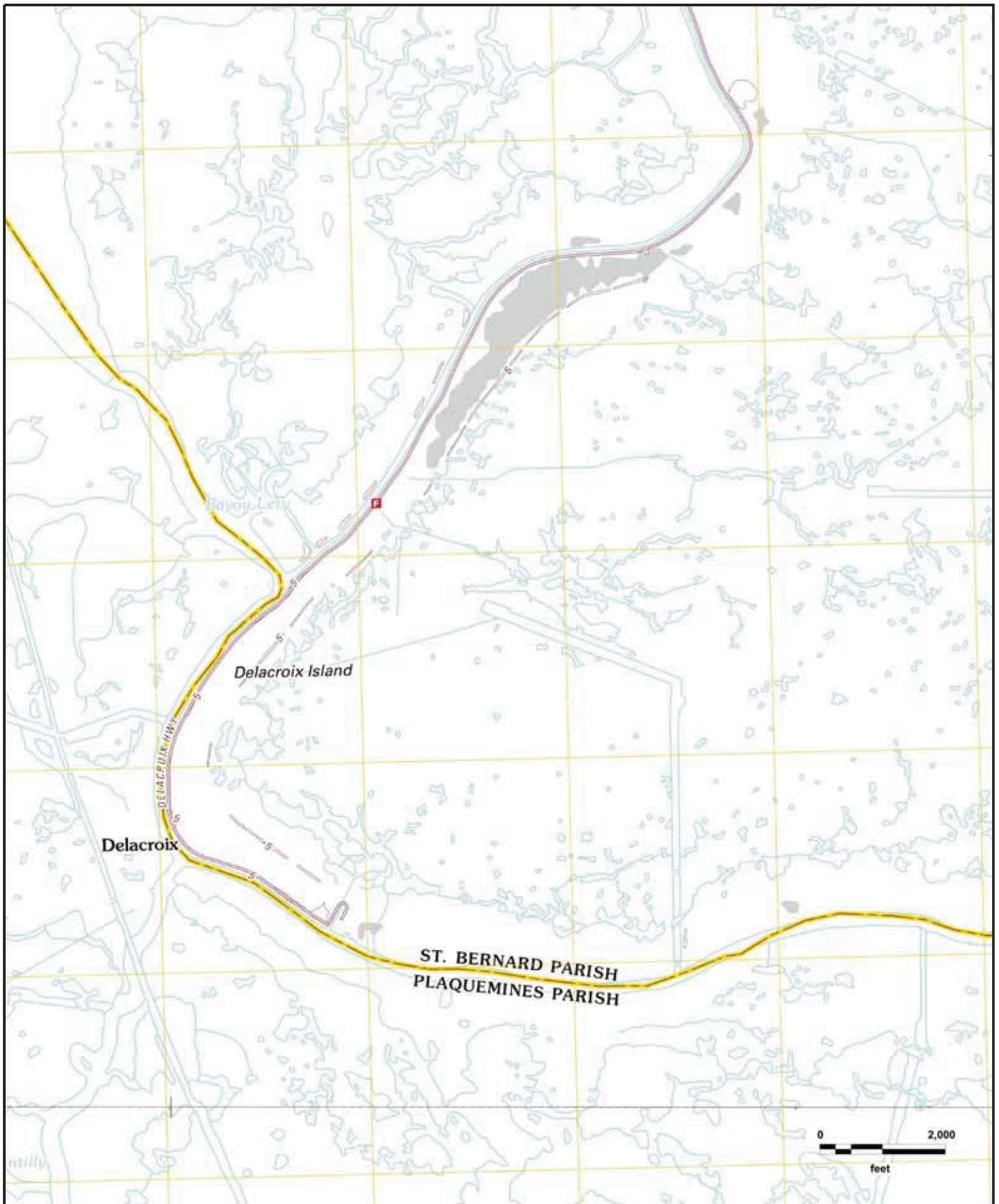
Target Property Longitude(s)/Latitude(s):

(-89.768622000, 29.786091000), (-89.770737000, 29.785654000), (-89.772993000, 29.784309000),
(-89.776096000, 29.780820000), (-89.778805000, 29.776862000), (-89.780040000, 29.776066000),
(-89.782033000, 29.773765000), (-89.784106000, 29.772641000), (-89.788490000, 29.768039000),
(-89.789352000, 29.766269000), (-89.789620000, 29.765327000), (-89.789594000, 29.764073000),
(-89.788964000, 29.763115000), (-89.783504000, 29.759794000), (-89.780788000, 29.758781000),
(-89.772438000, 29.757287000), (-89.766381000, 29.756908000), (-89.766563000, 29.768534000),
(-89.771613000, 29.770183000), (-89.772654000, 29.771182000), (-89.772327000, 29.772587000),
(-89.771590000, 29.773522000), (-89.770470000, 29.775506000), (-89.764824000, 29.779175000),
(-89.760565000, 29.783511000), (-89.760565000, 29.783588000), (-89.760565000, 29.783717000),
(-89.761600000, 29.785179000), (-89.766833000, 29.786950000)

Topographic Map Summary

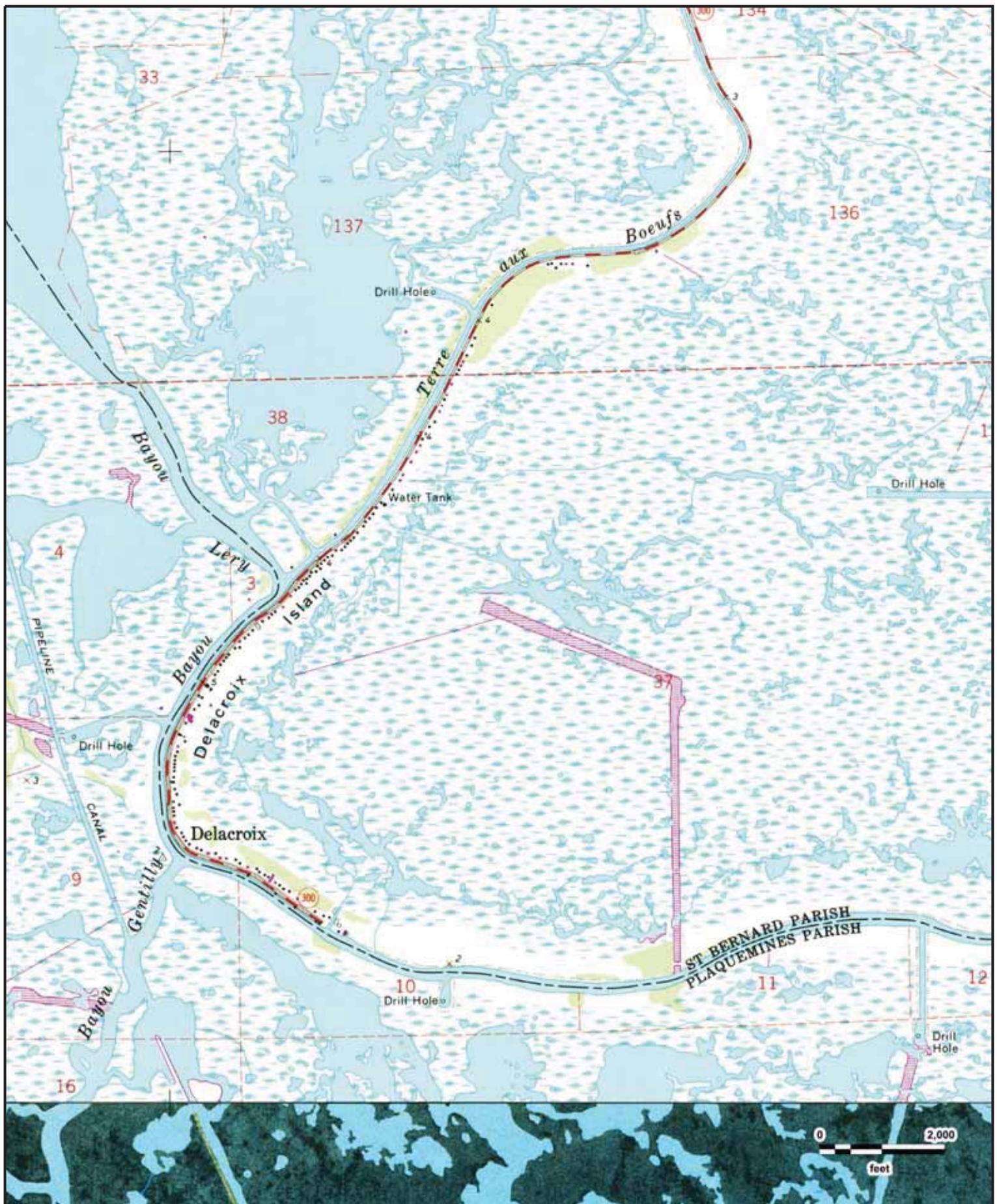
<i>Date</i>	<i>Quadrangle</i>	<i>Scale</i>
2012	DELACROIX, LA (2012)	1" = 2000'
	LAKE BATOLA, LA (2012)	
1967 PHOTOINSPECTED 1983	DELACROIX, LA (1983)	1" = 2000'
	LAKE BATOLA, LA (1992)	
1967 PHOTOREVISED 1979	DELACROIX, LA (1979)	1" = 2000'
	LAKE BATOLA, LA (1992)	
1967 PHOTOREVISED 1972	DELACROIX, LA (1972)	1" = 2000'
	LAKE BATOLA, LA (1973)	
1969	ST BERNARD, LA (1969)	1" = 5208'
	YSCLOSKEY, LA (1969)	
	POINT A LA HACHE, LA (1962)	
	BLACK BAY, LA (1964)	
1967	DELACROIX, LA	1" = 2000'
1955	ST BERNARD, LA (1955)	1" = 5208'
	YSCLOSKEY, LA (1957)	
	POINT A LA HACHE, LA (1949)	
	BLACK BAY, LA (1964)	
1951	DELACROIX, LA	1" = 2000'
1942	ST BERNARD, LA (1942)	1" = 5208'
	SHELL BEACH, LA (1941)	
	POINT A LA HACHE, LA (1939)	
	BLACK BAY, LA (1944)	
1941	DELACROIX, LA	1" = 2640'
1935	DELACROIX, LA	1" = 2640'
1892	ST BERNARD, LA (1892)	1" = 5208'
	SHELL BEACH, LA (1892)	
	POINT A LA HACHE, LA (1893)	
	BLACK BAY, LA (1893)	

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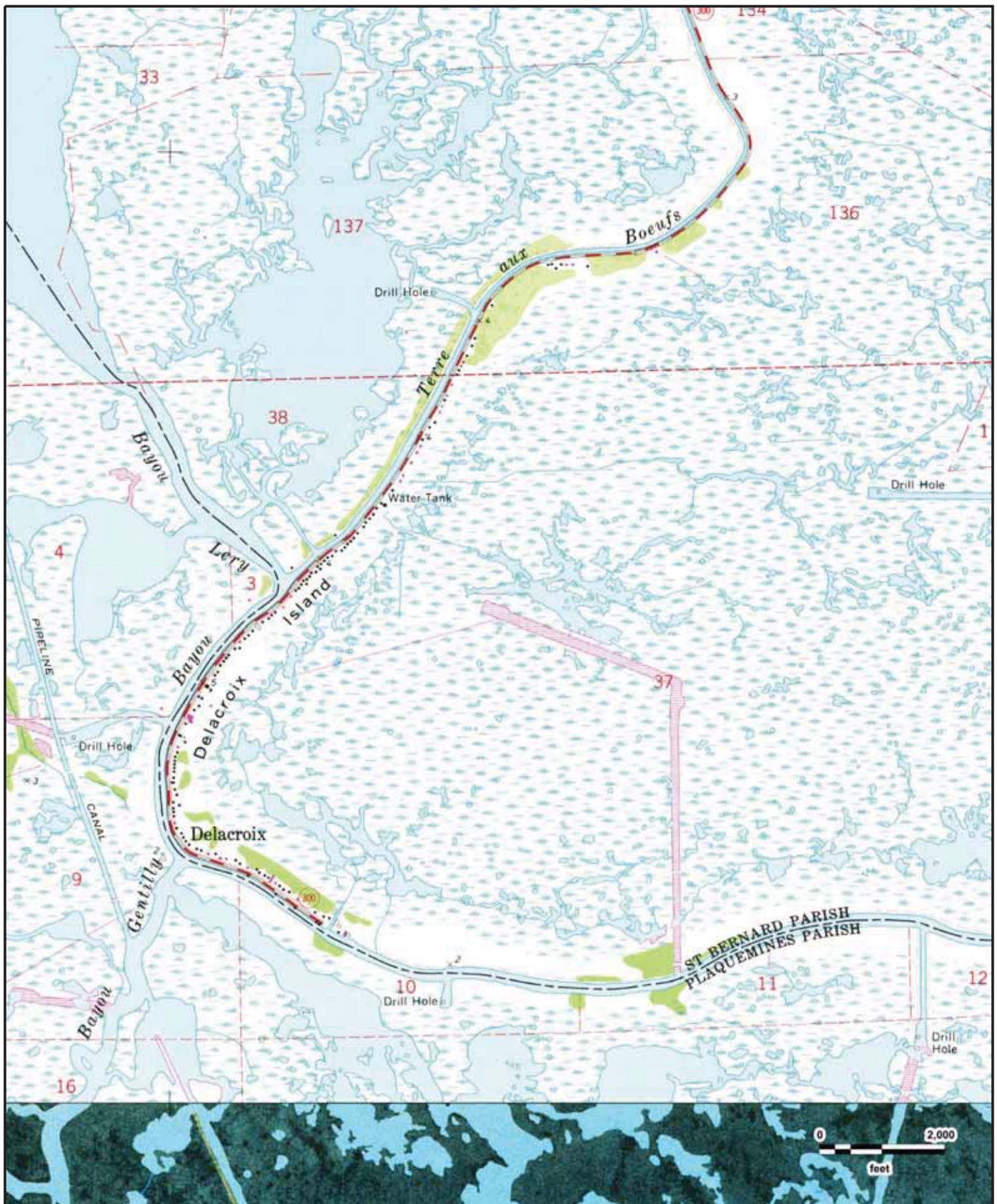
East Delacroix Marsh Creation and Terracing
DELACROIX, LA (2012), LAKE BATOLA, LA (2012)

GeoSearch



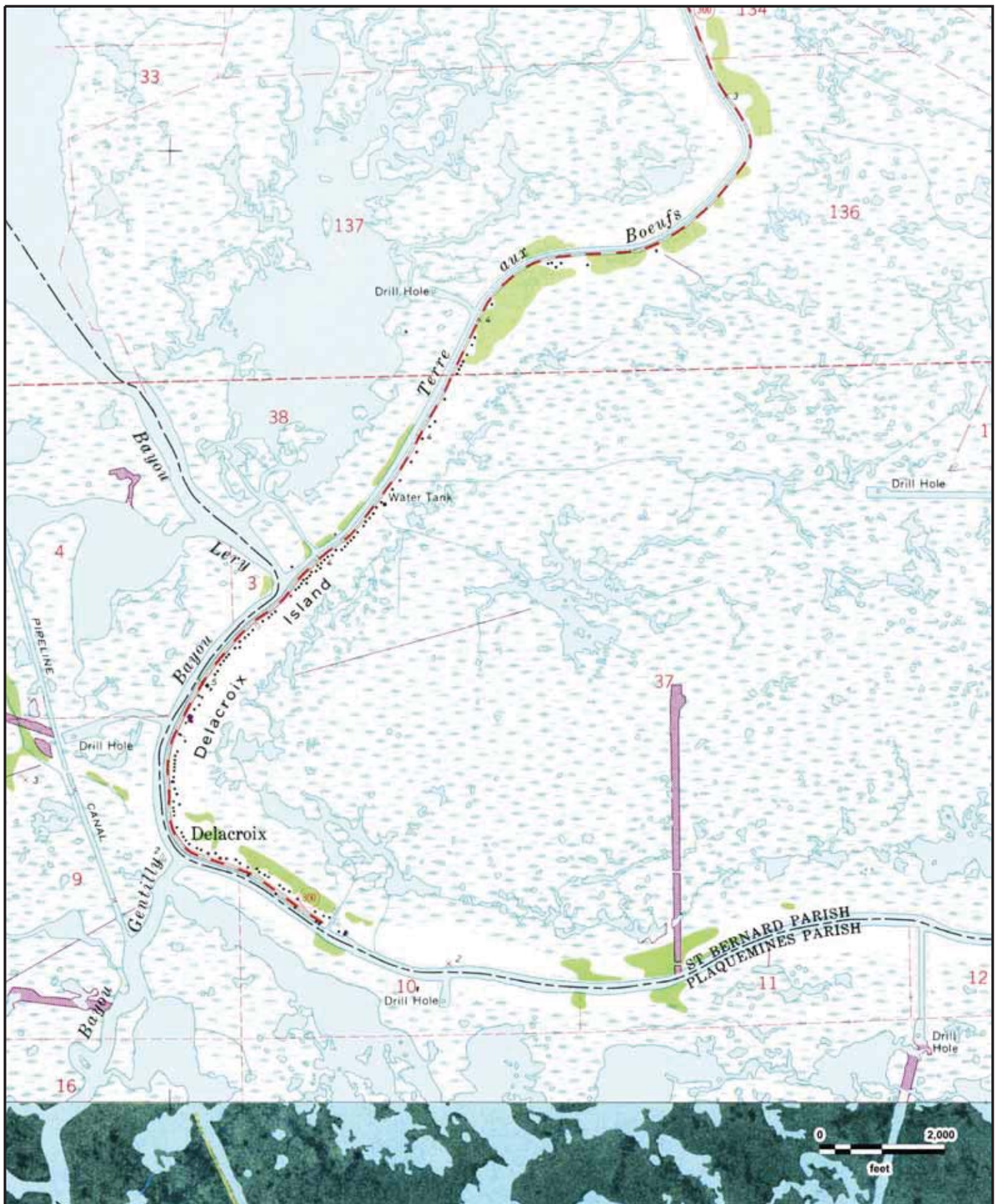
East Delacroix Marsh Creation and Terracing
DELACROIX, LA (1983), LAKE BATOLA, LA (1992)

GeoSearch



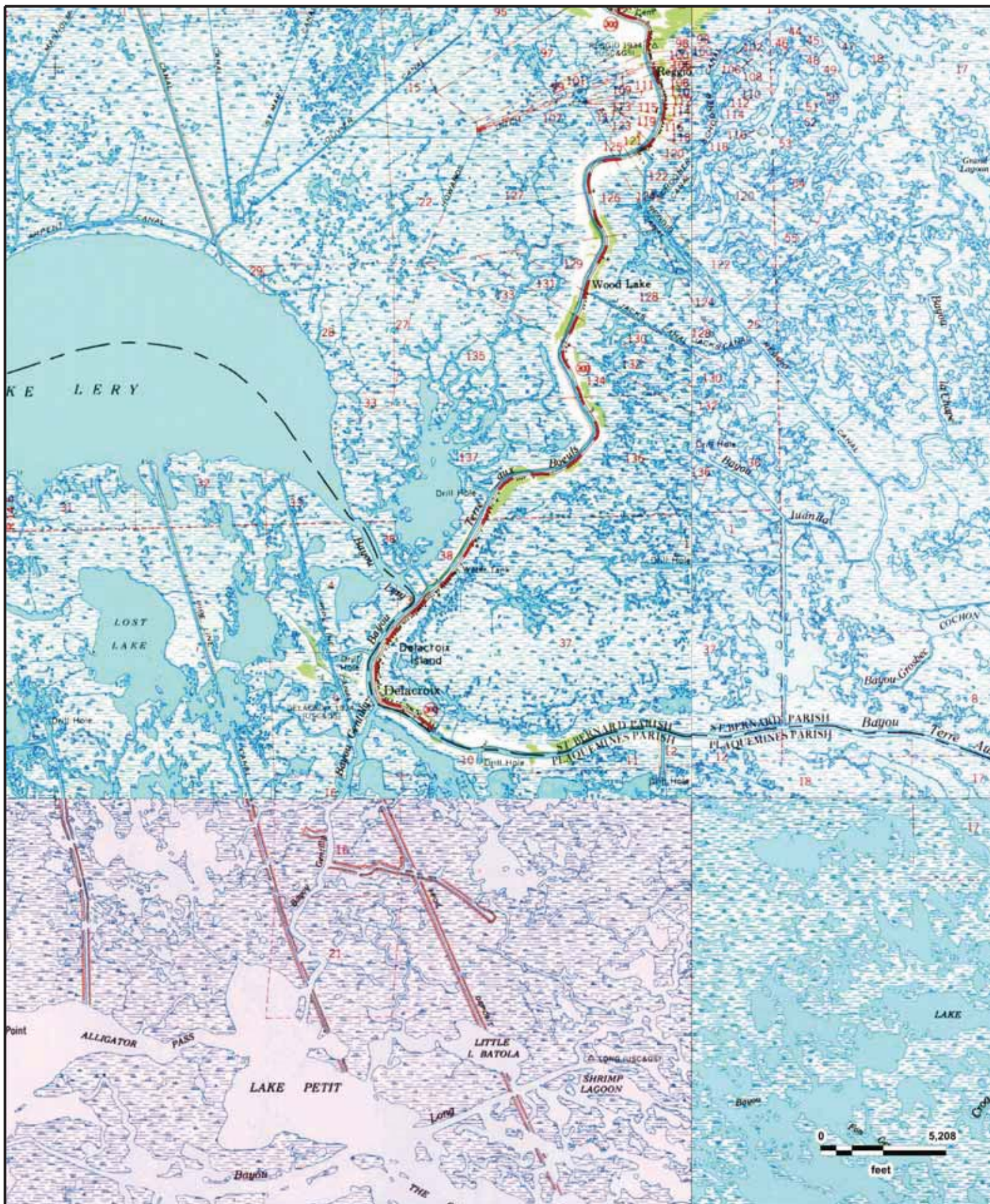
East Delacroix Marsh Creation and Terracing
DELACROIX, LA (1979), LAKE BATOLA, LA (1992)

GeoSearch



East Delacroix Marsh Creation and Terracing
DELACROIX, LA (1972), LAKE BATOLA, LA (1973)

GeoSearch



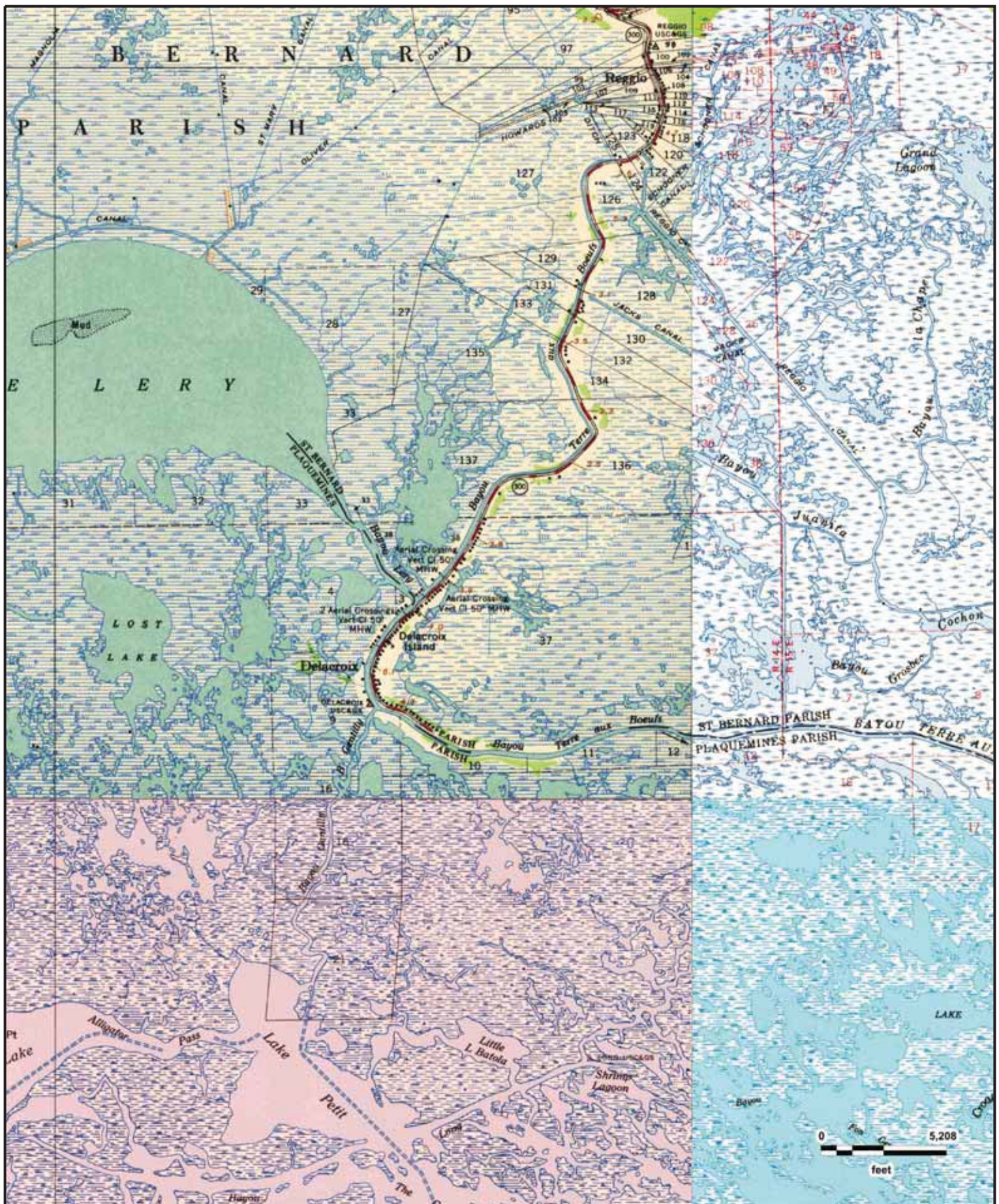
East Delacroix Marsh Creation and Terracing
ST BERNARD, LA (1969); YSCLOSKEY, LA (1969)
POINT A LA HACHE, LA (1962); BLACK BAY, LA (1964)

GeoSearch



East Delacroix Marsh Creation and Terracing
DELACROIX, LA (1967)

GeoSearch



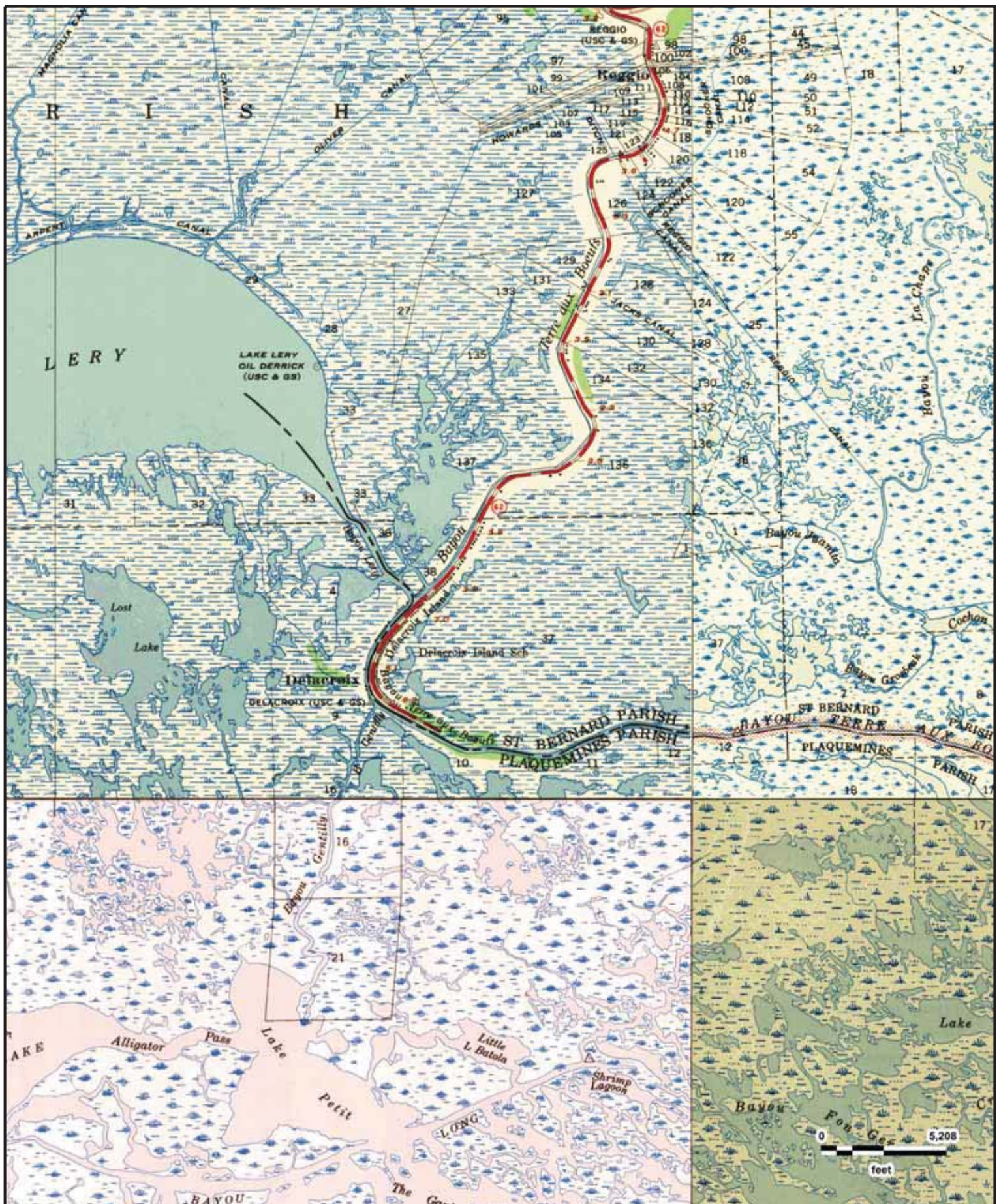
East Delacroix Marsh Creation and Terracing
ST BERNARD, LA (1955); YSCLOSKEY, LA (1957)
POINT A LA HACHE, LA (1949); BLACK BAY, LA (1964)

GeoSearch



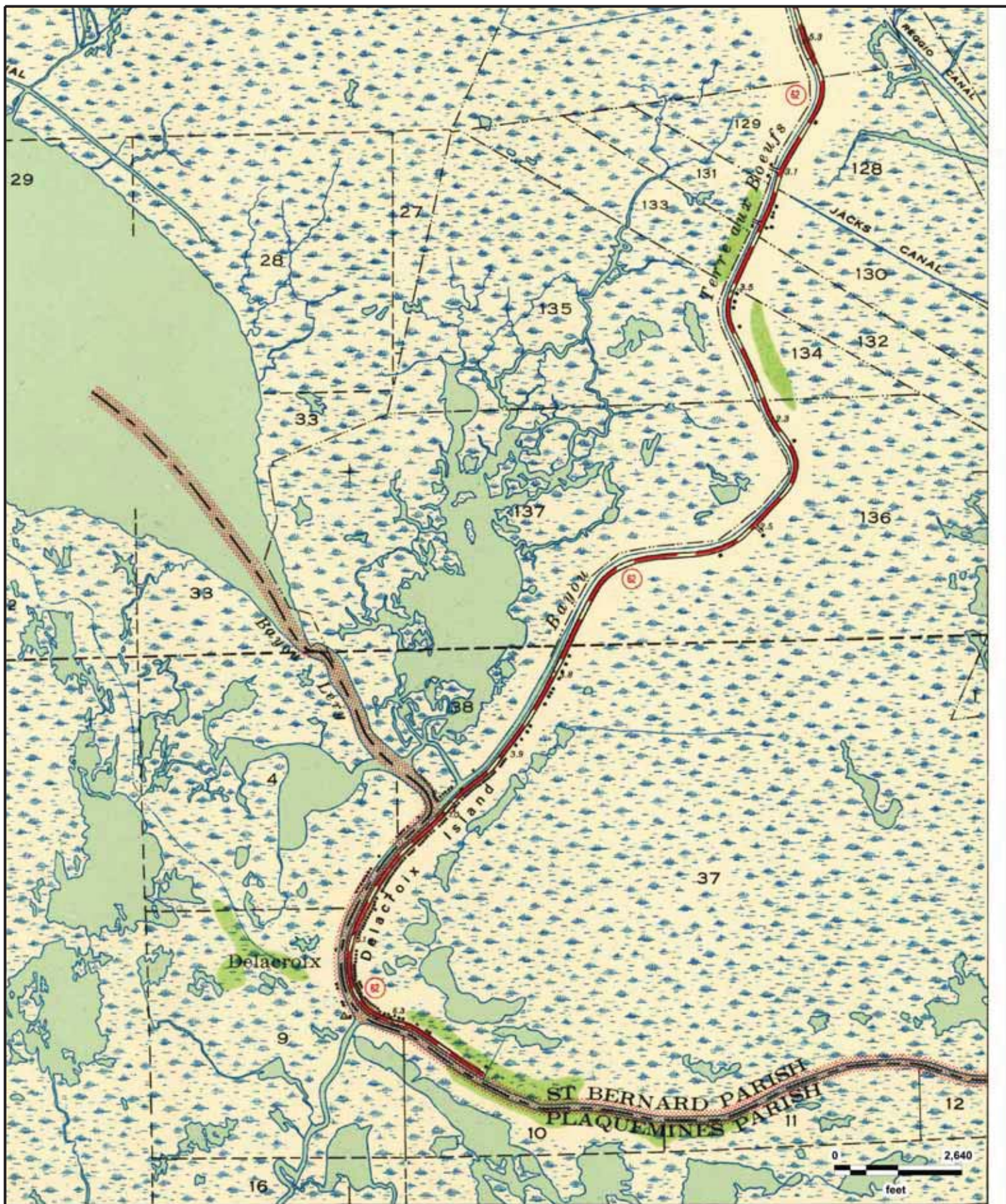
East Delacroix Marsh Creation and Terracing
DELACROIX, LA (1951)

Geosearch



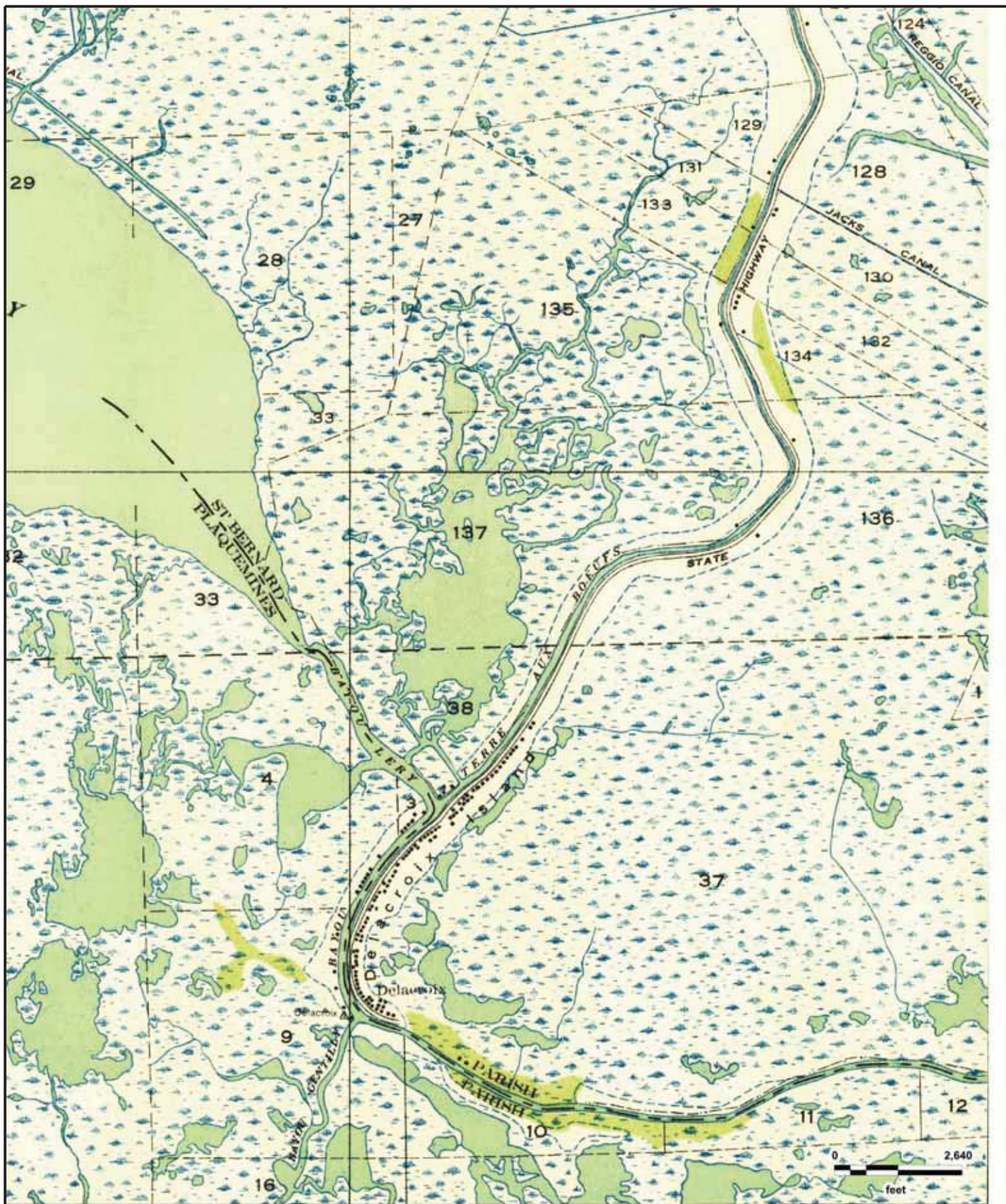
East Delacroix Marsh Creation and Terracing
ST BERNARD, LA (1942); SHELL BEACH, LA (1941)
POINT A LA HACHE, LA (1939); BLACK BAY, LA (1944)

GeoSearch



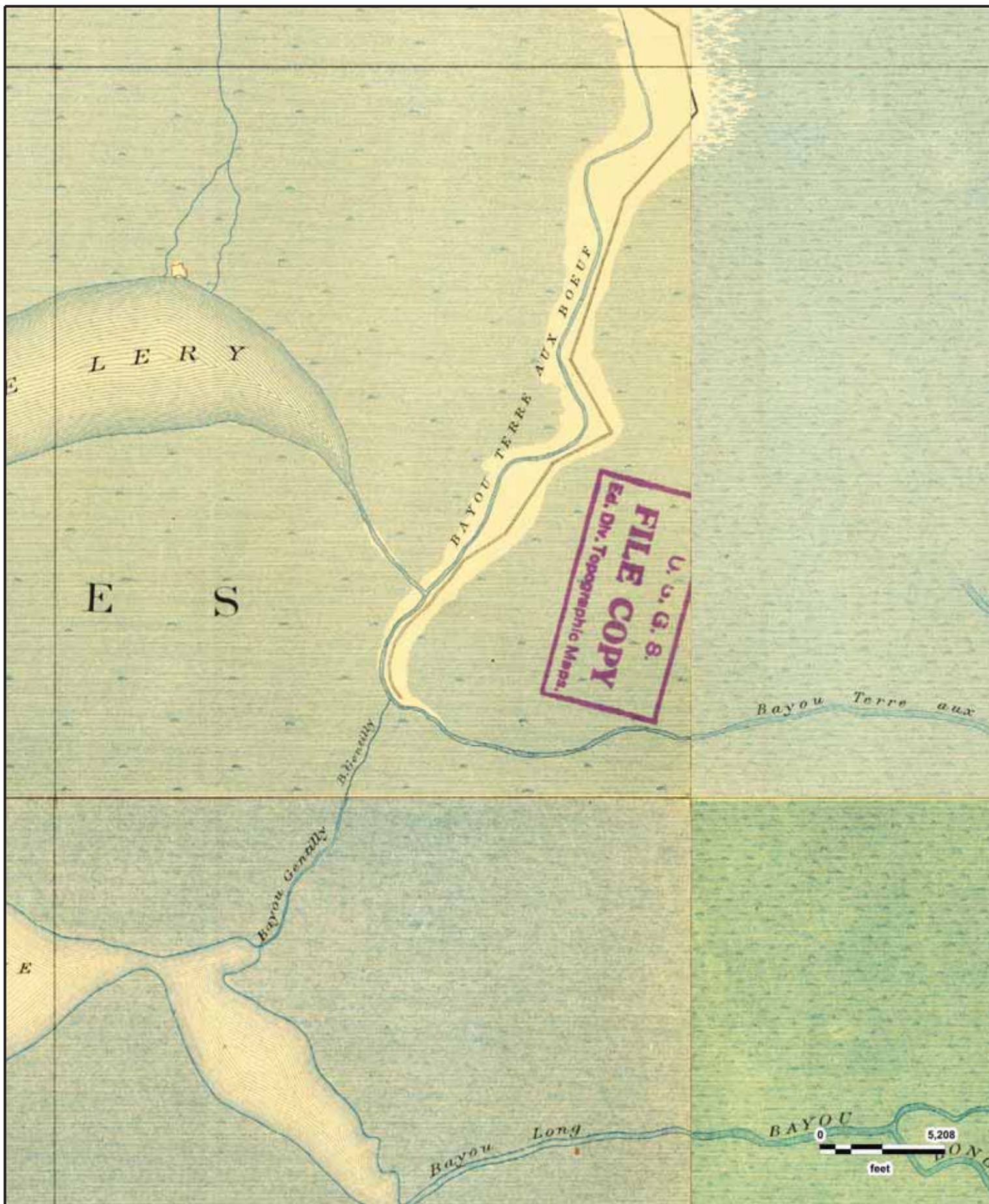
East Delacroix Marsh Creation and Terracing
DELACROIX, LA (1941)

GeoSearch



East Delacroix Marsh Creation and Terracing
DELACROIX, LA (1935)

GeoSearch



East Delacroix Marsh Creation and Terracing
ST BERNARD, LA (1892); SHELL BEACH, LA (1892)
POINT A LA HACHE, LA (1893); BLACK BAY, LA (1893)

APPENDIX F

CITY DIRECTORIES



City Directory Standard Report

Target Property:

*Delacroix Hwy,
St Bernard, LA 70085*

Prepared For:

Providence Engineering-Baton Rouge

Order #: 147751

Project #: 621-012

Date: 6/2/2020

City Directory Standard Report

Delacroix Hwy, St Bernard, LA 70085

INFOUSA

SOUTH CENTRAL 2019

DELACROIX HWY

1507	DUFRENE'S GUIDE SVC
2601	T S R INC
2721	ALFONSO JORDAN
3917	RUSSELL JAMES 3D
3921	GUINTA J
4258	GAUVREAU ROGER
4613	MORALES EUGENE SR
4623	ST BERNARD FIRE STATION
4717	GETTLE MICHAEL
4717	SERIGNE PAUL
4829	GONZALES THOMAS
4901	MORALES VICKY
4925	KOEHN DONNIS
4925	MORALES DANIEL JR
5013	MORALES ALEX JR
5017	MORALES CHARLES
5105	ALFONSO NANCY
5225	LOPEZ ROBERT
5325	MORALES PHIL JR
5326	MONES TINO
5413	THEDELACROIXLODGE
5817	MELERINE CLINTON
5817	MONES KIMBERLY
5933	SERIGNE BOAT LAUNCH
6013	AVENEL GERALDINE
6111	ALPHONSO LOUISE
6111	LUCAS MARIE
6115	GROSCH BRIAN
6131	DIETZ FREDERICK
6201	GALLARDO LESLIE
6205	PATINGO TRESSA

888-396-0042

www.geo-search.com

City Directory Standard Report

Delacroix Hwy, St Bernard, LA 70085

6205	PAYNE JACK 3D
6205	SWEETWATER GUIDE SVC & MARINA
6301	CAMPO MERLIN SR
6305	MAINS R
6405	CAMPO NICHOLAS
6421	MORALES ELWOOD JR
6517	HUTZLER JOSEPH JR
6601	MELERINE JOSHUA
6601	MORALES CLINTON JR
6621	MORALES ELWOOD
6625	MORALES CURTIS
6625	X [END OF LISTINGS]

INFOUSA

SOUTH CENTRAL 2014

DELACROIX HWY

2721	ALFONSO JORDAN
4209	EVANS JANE
4229	ALFONSO JOSEPH
4229	LOPEZ SCOTT
4623	ST BERNARD FIRE STATION
4709	MCINTEE BETTY
4713	SERIGNE HOWARD SR
4717	SERIGNE PAUL SR
4745	AVENEL ALBERT
4817	MELERINE'S CAMP RENTAL
4833	SERIGNE LISA
4901	MORALES BARBARA
4925	KOEHN DONNIS
4925	MORALES DANIEL JR
5013	MORALES ALEX JR
5225	LOPEZ ROBERT
5321	MELERINE LLOYD
5326	MONES TINO
5501	MARTINEZ PHILIP SR

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City Directory Standard Report

Delacroix Hwy, St Bernard, LA 70085

5543	ABERCROMBIE NATHAN
5617	MELERINE PAULA
5717	MELERINE DEAN
5737	WILSON ROY JR
5817	MONES PHILIP JR
5921	ROBIN GARY
5933	SERIGNE BOAT LAUNCH
6013	AVENEL ALBERT JR
6025	MELERINE MARIE
6115	GROSCH BRIAN
6131	DIETZ FREDERICK
6201	GALLARDO LESLIE
6205	BERRY CINDY
6205	PAYNE JACK 3D
6205	SWEETWATER GUIDE SVC
6301	CAMPO MERLIN SR
6405	CAMPO NICHOLAS
6421	MORALES ELWOOD JR
6601	MELERINE JOSHUA
6601	MORALES CLINTON JR
6621	MORALES ELWOOD JR
6625	MORALES CURTIS
6625	X [END OF LISTINGS]

INFOUSA

SOUTH CENTRAL 2008

DELACROIX HWY

1805	BIRD DA
2717	SERIGNE MICHAEL SR
2721	ALFONSO TROY & TANYA
2721	ALFONSO TROY & TANYA C
4525	ALFONSO VERNON
4913	KELLY ANNA
5105	ALFONSO CHAD
5105	ALFONSO NANCY

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City Directory Standard Report

Delacroix Hwy, St Bernard, LA 70085

5326	MONES TINO
5717	DEAN'S SEAFOOD
5933	SERIGNE BOAT LAUNCH
6115	GROSCH BRIAN
6131	DIETZ FREDERICK
6621	MORALES ELWOOD & SUZIE
6621	X [END OF LISTINGS]

INFOUSA

SOUTH CENTRAL 2002

DELACROIX HWY

2813	HUTCHINSON JUSTIN
3917	RUSSELL JAMES
4101	RICHE ELWOOD
4105	SCRAMUZZA MARIO J
4221	ALFONSO JESSE N
4233	KELTY WILLIAM
4413	OLIVER PAUL
4509	ALFONSO STANLEY
4513	MORALES FELIX JR
4525	ALFONSO VERNON
4526	ARCEMENT TRACY
4529	ALFONSO MARTIN
4533	MELERINE DWIGHT
4605	LOPEZ FRANK
4605	LOPEZ FRANK
4613	MORALES EUGENE J
4705	TREADAWAY ELDREIGE T
4709	GONZALES LAZAURS
4713	HOWARD WILLIAM S
4717	SERIGNE PAUL J
4729	MARCELLO C J
4745	LOPEZ PHILIP
4801	MORALES AGNES
4801	MORALES AGNES

City Directory Standard Report

Delacroix Hwy, St Bernard, LA 70085

4805	HOCKE JOE
4813	MORALES ZELMA
4821	RUSSELL FARREST SR
4825	EVANS EMILE
4829	GONZALES MARIE
4833	MARTINEZ HENRY
4901	MORALES GRACE
4905	ROSER HUGH N JR
4909	KELLY ANNA
4917	ACQUISTAPACE DAVID
4929	MORALES DANIEL
4929	MORALES DANIEL JR
5013	MORALES ALEX JR
5017	MORALES CHARLES
5021	MORALES MILDRED
5101	LOPEZ HENRY
5101	ROGERS LELAND & VANESSA
5212	MOODY PALMER
5213	HENNING TIM
5217	GONZALES JAMES
5225	LOPEZ JOSEPH JR
5301	PENTON RONNIE G
5306	LAGRAIZE KEVIN J SR
5321	MELERINE LUCILLE
5325	MONES ALBERT
5325	MONES TINO
5405	LOIACANO ARTHUR JR
5405	LOIACANO ARTHUR JR
5413	MELERINE CLAUDE A
5413	PRATS RUSSELL
5505	GONZALES L
5513	MENESSES DENNIS
5525	EVANS EDWARD JR

City Directory Standard Report

Delacroix Hwy, St Bernard, LA 70085

5543	GONZALES EVELYN
5617	MELERINE MACK
5625	MELERINE RUDY
5705	ESTAVES DAVID
5710	GEORGE FRANK
5725	POCHE A J
5737	WILSON ROY & GERRY
5802	WEBER EARL
5817	MELERINE CLINTON B
5906	BESHONER E C
5917	HOWARD HEUITTE JR
5929	BOUCHE MICHAEL & JOSEPH
5934	SERIGNE'S BOAT LAUNCH
6017	SERIGNE O'NEIL
6030	MELERINE WEESHE
6033	SERIGNE ADAM
6037	LOWE LARRY
6101A	HAMILTON CARL B
6101A	WARREN GERALD M
6101B	DELUZAIN ANDY & BENNY
6115	GROSCH BRIAN
6131	DIETZ FRED
6143	ALFONSO JOSEPH JR
6147	LEE DAVID & CARLA
6201	GALLARDO JULIETTE & JOHNNY
6213	LICALI PETER J
6217	CAMPO LEROY J
6221	LEE MARK SR
6301	CAMPO MERLIN
6313	RATHE RICHARD
6323	ALPHONSO ERNEST
6323	ALPHONSO ERNEST
6326	GARRITY ROBERT T

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6327	MONTELONGO EDWARD
6335	MORALES PHILLIP
6401	CAMBRE JACK R
6405	CAMPO THOMAS H
6409	PEREZ ALLEN & MARGARET M
6417	ESTAVES RICKY
6421	MORALES ELWOOD
6428	MAYEAUX CHESTER
6510	DEAS ANTHONY
6513	MENHENNETT ERIC
6514	ROGERS C E
6621	MORALES ELWOOD & RETHA
6626	CURTIS & FORD SEAFOOD
6626	MORALES RODNEY M
6627	GRECO JUDY
6700	MURPHY DONNIE
6705	HEIER THOMAS J
6705	LOVELL KATHY
6705	MCDONALD JOE
6705	METZLER JOSEPH A
6705	PUGLIA ANTHONY
6705	X [END OF LISTINGS]

Comment: Listed in St Bernard. No coverage available for St Bernard prior to 2002 at the time of this report.

APPENDIX G
PHOTOGRAPHIC DOCUMENTATION

Providence Engineering & Environmental Group LLC

Site Name: BS-0037 - East Delacroix Marsh Creation and Terracing Project
Site Location: Breton Basin, St. Bernard Parish, LA
Date: June 16, 2020

Photograph #1

Comments:

View of oil and gas access canal on the southeastern surrounding property from the Property facing northeast.



Photograph #2

Comments:

View from the southeastern portion of the Property facing east towards the eastern adjoining and surrounding properties.



Photograph #3

Comments:

View of the southern portion of the Property facing south towards Bayou Terre aux Boeufs and Bayou Gentilly.



Photograph #4

Comments:

View of the southwestern portion of the Property facing southwest towards Delacroix Highway.



Photograph #5

Comments:

View of the Property from the eastern portion of the Property facing west towards Delacroix Highway followed by Bayou Terre aux Boeufs, Bayou Lery and Lake Lery.



Photograph #6

Comments:

View of the Property from the eastern portion of the Property facing northwest towards Delacroix Highway.



Photograph #7

Comments:

View of the Property from the southeastern portion facing northwest.



Photograph #8

Comments:

View of the northeastern surrounding Property from the eastern Property boundary facing northeast.



Photograph #9

Comments:

View of the Property from the central portion of the Property facing north.



Photograph #10

Comments:

View of the western portion of the Property facing west toward Delacroix followed by Bayou Terre aux Boeufs, Bayou Lery, and Lake Lery.



Photograph #11

Comments:

View of the southwest portion of the Property facing southwest.



Photograph #12

Comments:

View of the northern portion of the Property and northern adjoining and surrounding properties, including Delacroix and Bayou Juanita.



Photograph #13

Comments:

View of the Property from the western portion of the Property facing east.



Photograph #14

Comments:

View of the Property from the northern surrounding property facing south.



Photograph #15

Comments:

View along the western Property boundary from the northern Property boundary facing south.



Photograph #16

Comments:

View of the Property from the northern portion of the Property facing southwest.



Photograph #17

Comments:

View of the Property from the northwestern corner of the Property facing southeast.



Photograph #18

Comments:

View of remnant pilings from a historical oil and gas facility and well northeast of the Property at the end of an oil and gas access canal.

