

Exhibit DD. Calhoun Technology Park - South Site Phase I Environmental Site Assessment



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PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

**LAZENBY AND ASSOCIATES
SOUTH TRACT
321 US HIGHWAY 80 EAST
CALHOUN, LOUISIANA**

PPM PROJECT NO. 11452003.ESA1

MARCH 7, 2017

PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

AT

**SOUTH TRACT
321 US HIGHWAY 80 EAST
CALHOUN, LOUISIANA**


PREPARED FOR:

**LAZENBY AND ASSOCIATES
2000 NORTH 7TH STREET
WEST MONROE, LOUISIANA 71291**

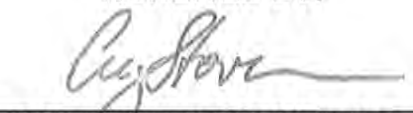
PPM PROJECT NO. 11452002.ESA1

MARCH 7, 2017

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EXECUTIVE SUMMARY

PPM Consultants, Inc. (PPM) was retained by Lazenby and Associates to conduct a Phase I Environmental Site Assessment (ESA) of the South Tract at 321 US Highway 80 East in Calhoun, Louisiana. The purpose of this assessment was to identify recognized environmental conditions in connection with the property by means of interviews, review of record information, and site reconnaissance. The environmental assessment was conducted in conformance with the scope of ASTM International Standard Practice E 1527-13.

PPM conducted the site reconnaissance on February 13, 2017. The subject property is currently a portion of a larger vacant LSU agricultural research facility. The property is irregular in shape and 87.5 acres, bordered to the north by Highway 80 East and to the south by Kansas City Southern railroad in a residential and undeveloped area of Calhoun, Louisiana. Adjoining properties include the former LSU Agricultural Research Center to the north, undeveloped land to the east and southeast, residences to the southwest and west. Improvements to the site include a total of three free standing structures on the subject property, along with a former pump house, and metal water tank. Available historical resources indicate that the property was developed as a LSU AgCenter Research Station in 1888 for research in agricultural sciences, including animal husbandry, pesticide testing, crop yield, runoff abatement, and wood recycling. The subject property has been unoccupied since LSU vacated the facility in November 2014.

This assessment has revealed no evidence of recognized environmental conditions in connection with the property except for the following:

- Hazardous Chemicals- During interviews it was revealed that pesticides, herbicides, and other chemicals were stored and used on the site during the facility's operational history. Although the chemicals were reportedly stored and disposed of properly, spills and leaks may have occurred on the property impacting the soil and groundwater on the subject or adjoining properties. These interviews provided only limited information about chemical use practices during the recent past when environmental regulations were in place. There is no information available for the facility before regulations were enacted (approximately the mid-1970s back to 1888). It is reasonable to assume that a university affiliated agricultural experimental station would have been testing pesticides, herbicides, and other farm related chemicals that were considered cutting edge for their times; therefore, it is likely that pesticides like

Aldrin, chlordane, Dieldrin, and DDT that were considered wonder chemicals in the 1940s were used at the site before they were banned by the USEPA starting in the 1970s. These chemicals were banned because they were hazardous to human health and the environment and were very persistent in the environment. Likewise, proper use and disposal practices of today would be different from what would have been considered acceptable before regulations. For example, sink drains, which in this case could lead to the onsite septic tanks, are known to have been popular and convenient locations for chemical disposal in pre-regulation laboratories and other interior usage areas. At least three floor drains were observed in the laboratory area of Building 1 on the subject property. The drains were located in a slight depression that funneled liquids from the immediate area to the drains. Due to the proximity of the drains to the areas where hazardous chemical handling occurred and because these chemicals may have been released unimpeded into the drains, the drains could have carried hazardous materials offsite or impacted the subsurface or stormwater. The groundskeeper informed PPM during the site reconnaissance that the drains in the laboratory of Building 1 led to a septic tank on the subject property. Together, it is very possible that high concentrations of these highly persistent hazardous substances may still be found in former storage, mixing, and application areas, in septic tank leach fields, and in the ponds and pits that may have received runoff from these areas. It is possible that the storage and mixing areas remained consistent through time, but it is also likely that such areas moved all over the site in its 100-plus year history. The likely use and release of hazardous agricultural chemicals on the subject property by its operations from 1888 to recent times represents a recognized environmental condition.

The following significant data gaps were also encountered by the assessment:

- Southern extremity- PPM was unable to access the southeastern portion of the subject property during site reconnaissance due to the dense vegetation. Due to the long environmental history of the facility, this is considered a significant data gap; therefore, PPM is unable to form an opinion about conditions in this area at this time.

1.0 INTRODUCTION

1.1 PROPERTY IDENTIFICATION

Property Name:	South Tract			
Current Property Owner:	Ouachita Parish Police Jury			
Current Site Use:	Former agriculture research facility			
Land Area in Acres:	87.5 acres			
Street Address:	321 US Highway 80 East			
County/Parish:	Ouachita Parish			
City, State, Zip Code:	Calhoun, Louisiana 71225			
UTM Coordinates:	32° 30' 40"N	Latitude	92° 20' 40"W	Longitude
Tax Parcel ID(s):	130605 and 123751			
Date of Site Visit:	February 13, 2017			
Attachments:	Site location is shown on Figure 1, Site Location Map, Appendix A.			
	Site map is shown on Figure 2, Site/Area Map, Appendix A.			
	Legal description (if obtained) is provided in Appendix F.			

1.2 PURPOSE

PPM Consultants, Inc. (PPM) was retained by Lazenby and Associates to conduct a Phase I Environmental Site Assessment (ESA) of the above-referenced property in accordance with ASTM Standard Practice E 1527-13. The purpose of the ASTM Standard Practice E 1527-13 is:

"to define good commercial and customary practice in the United States of America for conducting an environmental site assessment of a parcel of commercial real estate with respect to the range of contaminants within the scope of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (42 U.S.C. §9601) and petroleum products. As such, this practice is intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability (hereinafter, the "landowner liability protections," or "LLPs"); that is, the practice that constitutes all appropriate inquiries into the previous ownership and uses of the property consistent with good commercial and customary practice as defined at 42 U.S.C. §9601(35)(B).

The goal of the process established by this practice is to identify recognized environmental conditions associated with the property. The term recognized environmental condition is defined by Practice E 1527-13 as:

"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. De minimis conditions are not recognized environmental conditions." Release to the environment entails the migration or movement of hazardous substances or petroleum products in any form, including solids and liquids at the surface or subsurface, and vapor in the subsurface to, within, or from the property. If such conditions exist on the property, and are not de minimis, the condition is a recognized environmental condition.

Key terms used in this report that are specifically defined by Practice E1527-13 are provided in **Section 9.0, Glossary of Key Terms**.

1.3 CONTINUED VIABILITY AND USER RELIANCE

ASTM defines the "user" as the party seeking to use Practice E1527-13 to complete an ESA of the property. A user may include, without limitation, a potential purchaser of property, a potential tenant of property, an owner of property, a lender, or a property manager. The findings and conclusions contained within this report may not be used or relied upon by any other parties without the written consent of the client that contracted PPM to conduct this assessment and PPM. The client may designate other users who may rely on this report. All users currently identified by the client are named in **Section 2.1** of this report.

In accordance with the ASTM practice, this report may be relied upon by the user(s) for a period of up to 180 days prior to the date of acquisition or transaction. If the transaction occurs after 180 days, but prior to one year, this report may be used provided that the following components of the report are updated:

- Interviews with owners, operators, and occupants;
- Searches for recorded environmental cleanup liens;
- Visual inspection of the property and of adjoining properties;
- Reviews of federal, tribal, state, and local government records;

- Visual inspections of the property and of adjoining properties; and
- And declaration by the environmental professional for the assessment or update.

If a party different from the original user(s) intends to use this report, the subsequent user(s) must also satisfy the following requirements at a minimum:

- Obtain written authorization to rely on this report from the original client and PPM;
- Fulfill the User's Responsibilities outlined in **Section 2.0**; and
- Contract PPM to update the report if the original report is over 180 days and less than one year old.

If the report is greater than one year old at the time of acquisition by any user, no part of the report can be relied upon in order to satisfy all appropriate inquiry.

2.0 USER PROVIDED INFORMATION

2.1 USERS OF REPORT

Lazenby and Associates contracted PPM to perform this Phase I ESA and is considered the client and a user of this report.

2.2 USER QUESTIONNAIRE

The "All Appropriate Inquiries" Final Rule (40 CFR Part 312) requires that certain tasks be performed by or on behalf of a party seeking to qualify for landowner liability protections (LLP) to CERCLA liability (i.e. the user). While such information is not required to be provided to the environmental professional (i.e. PPM), the environmental professional must request information from the user to assist in identifying recognized environmental conditions. The User Questionnaire found in Appendix X3 of Practice E1527-13 was provided to each of the users identified in **Section 2.1**. Responses to the User Questionnaire are provided in **Appendix B**. PPM did not receive an additional user questionnaire during the time frame for the report.

2.3 TITLE SEARCH

The client/user did not provide a title search for environmental liens or activity and use limitations (AUL) filed or recorded against the property. The client/user also did not contract PPM to provide this service.

2.4 OTHER INFORMATION PROVIDED BY USER

Other information provided by the user includes the following:

- The user identified the property as an unoccupied agricultural research facility;
- The user identified Mr. Brad Cammack, at (318) 327-1340 as the site owner and contact;
- The user provided a copy of a previous Phase I ESA conducted for the property in 2015. This report is discussed in **Section 3.2**; and
- The user provided a Boundary Survey Plat for the subject property.

Information provided by the user is attached in **Appendix B**.

2.5 USER SPECIFIED TERMS, CONDITIONS, AND LIMITATIONS

The client did not request or specify any special terms, conditions, limitations, or considerations that would limit, deviate from, reduce, or add to the scope of this assessment with respect to Practice E1527-13.

3.0 RECORDS REVIEW

PPM conducted a review of reasonably ascertainable and usable records to help identify recognized environmental conditions in connection with the property. Information sources fall into the following categories: (1) Standard Environmental Record Sources that are specific lists of facilities typically involving hazardous substances or petroleum products and are regulated or recorded by federal, state, or tribal regulatory agencies; (2) Regulatory Agency File and Record Sources that are typically used to further research facilities identified by the Standard Environmental Record Sources; (3) Other Environmental Record Sources that may include previous assessments of the property; (4) Physical

Setting Sources that provide information about the geologic, hydrogeologic, hydrologic, or topographic characteristics primarily used to evaluate the potential for contaminant migration from facilities identified by the Standard Environmental Record Sources; and (5) Standard Historical Sources, which have the primary objective to identify property land use from the present, back to the property's first developed use, or back to 1940, whichever is earlier. Information on available records is provided in the following sections.

3.1 ENVIRONMENTAL RECORD SOURCES

PPM retained the services of Environmental Data Resources, Inc. (EDR) to provide information available from state, tribal, and federal databases regarding reported environmental activities and releases in the site vicinity. PPM also reviewed federal and state electronic databases, where available, for files relevant to this ESA. A review of previous reports and other environmental documents that may have been provided by the user or other sources was also completed.

3.1.1 Standard Environmental Record Sources

Third-party providers of database searches such as EDR typically yield a large number of sites and a significant volume of environmental information. ASTM requires the Environmental Professional to evaluate the data and use their judgment regarding the level of detail to discuss and present regarding each of the listed sites. While numerous sites may be within the ASTM minimum search distance, many are located at significant distances from the subject property and based on this distance and other site-specific characteristics (site geology/hydrogeology, gradient, drainage, etc.) are unlikely to impact the subject property and therefore may be reasonably dismissed from further discussion in this section at the discretion of the Environmental Professional. The information presented below represents a summary of database searches and corresponding minimum search distances required by ASTM 1527-13. Also included is available relevant information from regulatory agency files researched.

SUMMARY OF DATABASE REVIEW			
Type of Site	ASTM Minimum Search Distance	Number Identified	
		Potential	Actual
Federal NPL	1 mile	0	0
Federal SEMS/CERCLIS	0.5 mile	0	0
Federal SEMS Archive/CERCLIS-NFRAP	0.5 mile	0	0
Federal RCRA CORRACTS	1 mile	0	0
Federal RCRA TSD	0.5 mile	0	0
Federal RCRA Generator	On or Adjoining	0	0
Federal ERNS	On site	0	0
State/Tribal Equivalent NPL	1 mile	0	0
State/Tribal Equivalent CERCLIS	0.5 mile	0	0
State/Tribal Landfill/SWD	0.5 mile	0	0
State/Tribal LUST	0.5 mile	0	0
State/Tribal RUST	On or Adjoining	1	0
State/Tribal Institutional/Engineering Control	On site	0	0
State/Tribal Voluntary Cleanup Sites	0.5 mile	0	0
State/Tribal Brownfields Sites	0.5 mile	0	0
Database Provider:	Environmental Database Resources, Inc.		
Attachments:	Standard and Regulatory Record documents are provided in Appendix D .		

3.1.2 Additional Environmental Record Sources

EDR also provides additional information from other EDR-proprietary and non-proprietary sources not specifically required by ASTM 1527-13, but may be relevant in determining the presence of recognized environmental conditions. Examples include typical higher risk sites such as historical drycleaners, automobile service stations, manufactured gas plants, landfills, emergency releases, and many others. ASTM does not specify search distances for these databases; therefore, the inclusion of listed sites below is at the discretion of the Environmental Professional. No such properties were identified in these databases.

3.1.3 Other Environmental Records Sources

Title:	Phase I ESA Calhoun Technology Park	Source:	PPM Consultants	Date:	April 6, 2015
PPM previously conducted a Phase I ESA on the subject property in 2015 as part of a larger LSU agricultural research facility including 241 acres north of Highway 80 East (North Tract) and 87.5 acres to the south (South Tract). The previous report noted similar conditions to those observed in the 2017 site reconnaissance, including three structures, pond, and pump house owned by the Ouachita Parish Police Jury. The 2015 report identified the historical use of chemicals, including pesticides and herbicides on the subject property as a recognized environmental condition. The 2014 report also noted significant data gaps encountered in determining the historical use of the subject property prior to 1942, the inability to access the southeastern extremity of the site during reconnaissance, and the inability to properly access the condition of septic tanks. These significant data gaps limited PPM's ability to form conclusions regarding recognized environmental					

conditions. The 2015 Phase I included an interview with Dr. Colyer, a regional director with LSU AgCenter. Dr. Colyer informed PPM that he supervised the operation of the LSU AgCenter Calhoun research facility starting in 2011 and coordinated LSU's departure from the station. Dr. Colyer explained that he was fairly familiar with the operation of the facility under his tenure, but could not attest to the facility's use before 2011. The research facility was operated by two scientists who spent their time in the laboratory. Dr. Colyer stated that he did not know the state of the septic system, the use of the pesticide storage building, the condition of the former UST, or the operation of the southern laboratory. Under his supervision the site used branded herbicides to control weed growth on site and removed the former chicken houses at the center of the property. He claimed no knowledge of hazardous chemical or petroleum spills at the site

3.2 PHYSICAL SETTING SOURCES

Title:	7.5" Calhoun Quadrangle Topographic Map	Source:	USGS	Date:	1994
Title:	Geocheck Physical Setting Source Addendum	Source:	EDR	Date:	2017
Attachments:	Physical Setting Documentation is provided in Appendix F .				

The subject property is located in a residentially developed area of Calhoun, Louisiana. EDR Geocheck Physical Setting summary suggests that the site is located at an elevation from 146 feet above mean sea level (MSL) and slopes generally to the south-southeast with a high point of approximately 175 feet MSL near the northwest corner and 115 feet MSL near the southeast corner. The subject property is reportedly underlain by soil composed of Savannah fine sandy loam that has slow infiltration rates and drains moderately well. Groundwater flow is assumed to be to the southeast toward North Cheniere creek.

3.3 HISTORICAL USE INFORMATION

AERIAL PHOTOGRAPHS		
Year (Source)	Comments	
1942 (ASCS)	Property	The subject property appears to consist of cleared agricultural land. Several structures are visible on the western portion of the property. Due to the small scale of the photo, it is difficult to ascertain potential development and number of structures within the region.
	Surrounding	Surrounding properties to the north, east, and south appear to be developed for agriculture. Residential development is apparent on the western adjoining property. Properties to the southeast appear to be wooded and undeveloped. Kansas City Southern Railroad borders the subject property to the south.
1947 (USGS)	Property	The subject property appears similar to the 1942 aerial photograph.
	Surrounding	All adjoining properties appear similar to the 1942 aerial photograph.
1951	Property	The subject property appears similar to the 1947 aerial photograph.

(ASCS)	Surrounding	All adjoining properties appear similar to the 1947 aerial photograph.
1961 (ASCS)	Property	The subject property appears similar to the 1951 aerial photograph.
	Surrounding	All adjoining properties appear similar to the 1951 aerial photograph.
1967 (ASCS)	Property	Approximately five structures are visible near the northwest corner of the subject property along a roadway branching to the south of highway 80. The subject property appears to be predominantly cleared for agricultural development. A second pond is visible along the southern boundary.
	Surrounding	All adjoining properties appear similar to the 1961 aerial photograph, with the exception of increased forestation on undeveloped land to the south. A pond is visible on the adjoining property to the east.
1976 (USGS)	Property	A new structure is visible to the south of the existing grouping on the western portion of the site.
	Surrounding	All adjoining properties appear similar to the 1967 aerial photograph.
1985 (USGS)	Property	Subject property appears similar to the 1976 aerial photograph. Due to low photograph quality and small scale, it is difficult to ascertain potential development within the region.
	Surrounding	Due to low photograph quality and small scale, it is difficult to ascertain potential development within the region.
1999 (USGS)	Property	Three additional structures are visible to the west of the existing structures near the western boundary. Additional forest growth is visible on the eastern portion of the subject property.
	Surrounding	All adjoining properties appear similar to the 1976 aerial photograph, with the exception of residential development on the adjoining property to the southwest.
2004 (USDA)	Property	The subject property appears similar to the previous historical aerial photograph.
	Surrounding	Adjoining properties appear similar to aerial photograph from 1998. Further to the west Calhoun Middle school is visible north of US Highway 80.
2015 (USDA)	Property	Four structures remain visible on the western portion of the subject property. A small shed is visible along the western shore of the pond.
	Surrounding	Residential development is visible on the adjoining property to the south.

CITY DIRECTORIES		
Year (Source)	Comments	
1998 (Polk's City Directory)	Property	<u>Address:</u> 321 US Highway 80 E- Calhoun Research Station of Louisiana State
	Surrounding	<u>US Highway 80</u> Listings of interest: (298-539) Residences
1999 (Polk's City Directory)	Property	<u>Address:</u> 321 US Highway 80 E- Calhoun Research Station of Louisiana State (361)- Residence (365)- Residence
	Surrounding	<u>US Highway 80</u> (296-539)- Residences
2004 (Polk's City Directory)	Property	<u>Address:</u> 321 US Highway 80 E- Calhoun Research Station (361)- Residence (505)- Louisiana State University Extension
	Surrounding	<u>US Highway 80</u> (296-539)- Residences <u>Sawmill Road</u> Listings of interest: (114-156)- Residences
2009 (Polk's City Directory)	Property	<u>Address:</u> 321 US Highway 80 E- Calhoun Research Station (365)-Residence
	Surrounding	<u>US Highway 80 E</u> (296-539)- Residences <u>Sawmill Road</u> (156)- Residence
2014 (Polk's City Directory)	Property	<u>Address:</u> Not Listed
	Surrounding	<u>US Highway 80 E</u> Listings of interest: (296-298)- Residence <u>Sawmill Road</u> (114-156)- Residence (156)- Residence

2016 (Polk's City Directory)	Property	<u>Address: Not Listed</u>
	Surrounding	<u>US Highway 80 E</u> Listings of interest: (210-298)- Residences <u>Sawmill Road</u> (142)- Residence

FIRE INSURANCE MAPS

Fire insurance maps were not available for the subject area.

USGS TOPOGRAPHIC MAPS

Year (Source)	Comments	
1994	Property	The subject property is listed as the North Louisiana Experimental Station. The property is shown to be cleared with six structures south of US Highway 80. A pond is depicted near the south central portion of the subject property with two approximately 6,000-square foot ponds to the southeast of the structures.
	Surrounding	The surrounding properties to the south appear to be undeveloped. The adjoining properties to the west and southwest appear to be cleared for residential development and the properties to the east and north appear to be cleared for agriculture.

OTHER HISTORICAL SOURCES

Other historical sources were not identified for the subject area.

Attachments:	Copies of Historical Records Documentation is provided in Appendix E .
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4.0 SITE RECONNAISSANCE

During the site reconnaissance, PPM visually inspected the grounds and structures (if any) on the property to the extent not obstructed by bodies of water, adjacent buildings, or other obstacles. The objective of the site reconnaissance is to visually and physically observe the property and the adjoining properties for any uses or conditions that may indicate the likelihood of recognized environmental conditions in connection with the property. Interior and exterior inspections focused on practices that involve the use, treatment, storage, disposal, generation, or release of hazardous substances or petroleum products. Exterior observations for this list are applied to the property and adjoining properties. Interior observations are limited to the property.

4.1 METHODOLOGY AND LIMITING CONDITIONS

Site reconnaissance does not include invasive or physical inspections of observed releases, such as ground disturbance to determine the thickness of a spill, or opening and inspecting the contents of vaults, manholes, storage tanks, drums, and other containers suspected to contain hazardous substances or petroleum products. Limiting conditions such as potentially unsafe conditions or inaccessible area were evaluated at the discretion of the site inspector as obstacles to the inspection. There were no special methodologies used to inspect the site; however, limiting conditions were encountered due to the size (~88 acres) of the property. PPM was able to observe all cleared portions of the property and was granted access to all buildings located on the site; however, not all wooded portions were observed. PPM attempted a general sweep of the wooded areas and assumed these to be representative of the remaining wooded portions of the property. Findings and opinions outlined further within this report will be subject to these limitations and assumptions.

4.2 SITE USE AND IMPROVEMENTS

CURRENT USE OF PROPERTY	
The subject property is currently vacant including multiple unused buildings, pond, pump house, and pond.	
Property Size and Shape:	87.5 acres in an irregular shape, bound to the north by Highway 80 East and to the south by Kansas City Southern railroad line.
Describe buildings on site:	
There are a total of three free standing structures on the subject property along with a former pump houses. All three buildings were vacant and located near the northeastern corner of the subject property, including a vacant laboratory with lab benches and storage on the northern portion, a storage barn with metal siding and cement flooring, and a former animal barn with cement flooring. Several foundations were noted near the historical structure locations.	
Describe vegetation and landscaping on site:	
The subject property is mixed cleared and wooded land. The majority of the northern, central, and southwestern sections of the property area cleared with manicured vegetation as groundcover. The majority of the northeastern, central, and southeastern sections of the property are thickly wooded. The area immediately surrounding the irrigation pond is sparsely wooded.	
Describe roads, paths, paved areas on site:	
Two gravel entrances were observed entering the property from Highway 80 East. Paved foundations were noted to the south of the barn and to the west of the laboratory on the western portion of the subject party. Paved flooring was noted in the barn and warehouse.	
Observed Topography and Drainages on site:	
The subject property slopes generally to the southeast with a peak of approximately 175 feet MSL near the northwest corner and a low of approximately 115 feet MSL near the southeast corner along the railroad. The subject property drains generally to the irrigation pond and North Cheniere Creek.	
Type of Sewage Disposal:	Septic system

Source of Drinking Water:	Municipal
Type of Heating & Cooling system:	Electric
Adjoining Roads	
North:	Highway 80 East
East:	None
South:	Kansas City Southern Railroad
West:	None
References:	Property features are shown on Figure 2, Site/Area Map, Appendix A.
	Photographs of property are provided in Appendix C.

4.3 USES OF ADJOINING PROPERTIES

General Area Land Use:	Residential and Undeveloped
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ADJOINING PROPERTIES (Clockwise from Due North)	
Name:	North Tract Calhoun Technology Park
Address:	321 Highway 80 East
Current & Past Uses:	LSU agriculture research facility
Direction:	North
Intervening Street:	Highway 80 East

Name:	Undeveloped forested land
Address:	Highway 80 East
Current & Past Uses:	Undeveloped
Direction:	East
Intervening Street:	None

Name:	Undeveloped forested land
Address:	None
Current & Past Uses:	Undeveloped
Direction:	Southeast
Intervening Street:	None

Name:	Residences
Address:	Calhoun Barn Road
Current & Past Uses:	Residential



Direction:	South
Intervening Street:	Kansas City Southern Railroad

Name:	Residences
Address:	Sawmill Road
Current & Past Uses:	Residential
Direction:	West
Intervening Street:	None
References:	Adjoining properties are shown on Figure 2, Site/Area Map, Appendix A.

4.4 EXTERIOR OBSERVATIONS

Were any of the following past or present conditions observed or suspected?	Property	Adjoining
	Yes or No	Yes or No
Pits, Ponds, and Lagoons	Yes	Yes
PPM observed an irrigation pond approximately 130,000 square feet in size on the southern portion of the subject property, the vegetation surrounding the pond appeared to be healthy and no sheen or chemical odors were noted. An irrigation pond was observed on the adjoining property to the east, approximately 180 feet from the subject property boundary and downgradient from the site.		
Stressed Vegetation	No	No
Stained Soil or Pavement	No	No
Solid Waste Disposal to Property	No	No
Fill of Unknown Origin	No	No
Waste Water	No	No
Wells	No	Yes
One 9,904 foot active natural gas well, , belonging to Linn Operating, Inc. and drilled in 1959 was observed approximately 1,000 feet northeast of the subject property. Two ASTs associated with the well were observed south of the well along an access road.		
Septic Systems	Yes	No
One septic tank is known to exist on the subject property associated with the laboratory building. No registration documents are known to exist for septic tanks on the subject property and the exact age, number, size, and location for septic tanks are unknown.		
Above and Underground Storage Tanks	No	Yes
Two Aboveground Storage Tanks belonging to Linn Operating, Inc. are located on the northeast of the subject property. The tanks are operated in association with a compressor on site, feeding into a gas pipeline underneath the subject property. The ASTs were surrounded by an earthen berm. PPM was informed of one former 500-1000-gallon gasoline UST was removed from the north adjoining property in 2008 or 2009.		
Drums (Standard US 55-gallon)	No	No
Other Hazardous Substance/Petroleum Containers	No	No
Other Unidentified Substance Containers	No	No
Hydraulic Lifts and Elevators	No	No
Oil Water Separators	No	No
Chemical or Petroleum Odors	No	No

Pools of Liquid (excluding water)	No	No
Potential PCB Equipment	Yes	No
PPM overserved one pole-mounted electrical transformer on the northern boundary of the site and one pole-mounted electrical transformer near the western boundary of the irrigation pond. The transformers appeared to be in good condition and no staining was noted on the soil below the transformers.		
Other Environmental Conditions	No	No

4.5 INTERIOR OBSERVATIONS

Were the following past or present conditions observed or suspected on the property?	Yes No
Stains or Corrosion	Yes
Drains and Sumps	Yes
PPM noted drains near the laboratory benches in the former laboratory building. It is not known where these drains lead, methods of disposal, or chemicals used in these buildings.	
Oil Water Separators	No
Above and Underground Storage Tanks	No
Drums (Standard US 55-gallon)	No
Other Hazardous Substance/Petroleum Containers	No
Other Unidentified Substance Containers	No
Hydraulic Lifts/Elevators	No
Chemical or Petroleum Odors	No
Pools of Liquid (excluding water)	No
Potential PCB Equipment	No

4.6 OTHER OBSERVATIONS

No other observations were noted during the site reconnaissance.

5.0 INTERVIEWS

PPM conducted interviews when possible with individuals who may have knowledge of the site. The objective of interviews is to obtain information from persons likely to have actual knowledge of current and past uses or conditions of the property, adjoining properties, and surrounding area that may indicate the likelihood of recognized environmental conditions in connection with the property. The focus and quality of information is highly variable with each type of contact and individual. The persons interviewed were asked to be as specific as reasonably feasible in answering questions. Interview information is provided below:



INTERVIEW WITH CURRENT OWNER OR REPRESENTATIVE

Interviewer:	Jordan Harper
Date(s) Attempted:	February 2017
Name of Contact:	Brad Cammack
Title/Affiliation:	Ouachita Police Jury
Contact Information:	(318) 327-1340
Comments: Mr. Cammack informed PPM that the subject property has been in the control of the Ouachita Parish Police Jury since November 2014 when LSU left the site. He stated that he is not aware of any new use of the property since the previous Phase 1. He stated that he was not aware of any ASTs or USTs on the property that contain hazardous substances or petroleum products. He stated that the property had a new groundskeeper, Mark Johnson, because Mr. Chris Thompson, who was previously interviewed by PPM had retired.	

INTERVIEW WITH PAST OWNER

Comments: See current owner interview.

INTERVIEW WITH KEY SITE MANAGER

Interviewer:	Jordan Harper
Date(s) Attempted:	February 15, 2017
Name of Contact:	Mark Johnson
Title/Affiliation:	Groundskeeper
Contact Information:	(318) 381-0133
Comments: Mr. Johnson met with PPM on site and escorted PPM during site reconnaissance. He stated that he has been working as groundskeeper on the subject property for approximately one year, including mowing and maintenance. According to Mr. Johnson, he had noticed construction debris near the center of the subject property in the general location of the historical pits. He also informed PPM that the pond on the northern portion of the subject property had been drained following the collapse of the northern bank due to rat tunneling. He stated that the pond has remained empty. He informed PPM that he was not aware of any current storage of hazardous materials or petroleum products in volumes greater than five gallons, but could not attest to the previous state of the site. He was not aware of any areas of petroleum staining and was not aware of the current number, condition, or location of septic tanks on the property. He stated that paint was stored in several buildings for general repairs and that small containers of gasoline were stored to fuel the lawnmower. He stated that LSU classes have met on the subject property, but that the buildings are not actively used.	

INTERVIEW WITH OCCUPANTS (MAJOR AND USING HAZ/PET)

Comments: See current owner interview

INTERVIEW WITH LOCAL FIRE MARSHALL	
Interviewer:	Jordan Harper
Date(s) Attempted:	March 1, 2017
Name of Contact:	Bill
Title/Affiliation:	Ouachita Parish Fire Prevention Dispatch Agent
Contact Information:	(318) 322-4174
Comments: Bill informed PPM that he could only search by address on the subject property, but was able to provide information for all known historical addresses on the subject property. He stated that one response was reported to 321 Highway 80 for a car accident in 2014 and that a fire response was required at 505 Highway 80 East in 2015 after sparks from a vehicle had ignited grass. He stated that no hazardous containment response, spill responses, or fires associated with regulated substances had been reported.	

INTERVIEW WITH LOCAL HEALTH DEPARTMENT	
Interviewer:	Jordan Harper
Date(s) Attempted:	March 1, 2017
Name of Contact:	Greg Hill
Title/Affiliation:	Louisiana Department of Health and Hospitals-Environmental Health Specialist
Contact Information:	(318) 361-7213
Comments: Mr. Hill stated that he was not aware of any records indicating the age, number, size, or condition of septic tanks on the subject property, but that it is likely that each building is associated with a tank. He was not aware of any problems associated with the subject property or surrounding properties and that the computer system was only reliable for systems installed or registered after 2001.	

INTERVIEW WITH STATE REGULATORY AGENCY	
Interviewer:	Jordan Harper
Date(s) Attempted:	March 2, 2017
Name of Contact:	Nat Barnett
Title/Affiliation:	LDEQ UST and Remediation Division
Contact Information:	(318) 362-3048
Comments: Mr. Barnett stated that he was not aware of any active remediation site on the surrounding properties and that the only nearest remediation site is approximately 3,700-feet northeast of the subject property. Mr. Barnett stated that if the historical UST was likely registered as a farm tank under 1,100-gallons and did not require LDEQ notification for registration or clean removal. No historical registration information was available for this tank.	

INTERVIEW WITH NEIGHBOR FOR ABANDONED PROPERTIES	
Comments: See current owner interview.	

INTERVIEWS WITH OTHERS	
Comments: No other interviews were required during the course of this assessment.	

6.0 EVALUATION

6.1 FINDINGS AND OPINIONS

Relevant information gathered from user provided information, records reviews, observations, and interviews was evaluated together to provide a professional opinion as to whether any of the suspect activities identified represent recognized environmental conditions, controlled recognized environmental conditions, historical recognized environmental conditions, or de minimis conditions associated with the property. The findings and opinions of this assessment are as follows:

- **Historical and current use of the property.** According to the LSU AgCenter Website, “the Calhoun Research Station, established in 1888, is the oldest facility of its kind in the state. Research has focused on dairy, peaches, and watermelons. Today, the focus is on wood products and helping the forestry industry. A goal of the station’s research is to waste no wood. Scientists are working to extract chemicals from treated wood and recycling both for beneficial use. Other research includes uses for low-quality wood products while improving the environment.” Historical aerial photographs indicate the existence of at least eleven structures on the subject property since 1942. Site reconnaissance shows four structures, including a laboratory, an open air barn, storage barn, and pump house. The facility has been unoccupied since November 2014. Potential concerns with the historical use of the subject property including the following:
 - Hazardous Chemicals- During interviews it was revealed that pesticides, herbicides, and other chemicals were stored and used on the site during the facility’s operational history. Although the chemicals were reportedly stored and disposed of properly, spills and leaks may have occurred on the property impacting the soil and groundwater on the subject or adjoining properties. These interviews provided only limited information about chemical use practices during the recent past when environmental regulations were in place. There is no information available for the facility before regulations were enacted (approximately the mid-1970s back to 1888). It is reasonable to assume that a university affiliated agricultural experimental station would have been testing pesticides, herbicides, and other farm related chemicals that were considered cutting edge for their times; therefore, it is likely that pesticides like Aldrin, chlordane, Dieldrin, and DDT that were considered wonder chemicals in the 1940s were used at the site before they were banned by the USEPA

starting in the 1970s. These chemicals were banned because they were hazardous to human health and the environment and were very persistent in the environment. Likewise, proper use and disposal practices of today would be different from what would have been considered acceptable before regulations. For example, sink drains, which in this case could lead to the onsite septic tanks, are known to have been popular and convenient locations for chemical disposal in pre-regulation laboratories and other interior usage areas. At least three floor drains were observed in the laboratory area of Building 1 on the subject property. The drains were located in a slight depression that funneled liquids from the immediate area to the drains. Due to the proximity of the drains to the areas where hazardous chemical handling occurred and because these chemicals may have been released unimpeded into the drains, the drains could have carried hazardous materials offsite or impacted the subsurface or stormwater. The groundskeeper informed PPM during the site reconnaissance that the drains in the laboratory of Building 1 led to a septic tank on the subject property. Together, it is very possible that high concentrations of these highly persistent hazardous substances may still be found in former storage, mixing, and application areas, in septic tank leach fields, and in the ponds and pits that may have received runoff from these areas. It is possible that the storage and mixing areas remained consistent through time, but it is also likely that such areas moved all over the site in its 100-plus year history. The likely use and release of hazardous agricultural chemicals on the subject property by its operations from 1888 to recent times represents a recognized environmental condition.

- Electrical transformers- PPM observed two pole-mounted electrical transformers on the subject property. The transformers appeared to be in good condition and no signs of staining were noted on the soil beneath the transformer. The electrical transformers on the subject property do not appear to represent a recognized environmental condition.
- **Historical and current surrounding land uses.** According to the historical sources reviewed, the properties adjoining the site appeared to consist of residential and undeveloped wooded property since at least 1942. During site reconnaissance the adjoining properties were observed to consist of the following: residential properties to the west, southwest, and south southwest and undeveloped land to the north, east, and southeast. The historical, undeveloped and residential nature of the surrounding properties is not considered to represent a recognized environmental condition.

6.2 DATA GAPS

A data gap is a lack of information or inability to obtain information despite good faith efforts to gather such information. A data gap is only significant if it affects PPM's ability to identify recognized environmental conditions.

- Southern extremity- PPM was unable to access the southeastern portion of the subject property during site reconnaissance due to the dense vegetation. Due to the long environmental history of the facility, this is considered a significant data gap; therefore, PPM is unable to form an opinion about conditions in this area at this time.

Data failure is a type of data gap that involves the inability to identify the property use at five-year intervals back to first use or 1940 whichever is earlier. Data failure occurred during this assessment because site use could not be established before 1888 when the LSU Ag Center was first developed. This data gap is not considered significant because it is very likely the site was undeveloped wooded land prior to similar to the surrounding land use from 1942 to the present. Data failure also occurred after 1888 for the following reasons:

- Historical sources were not available at the five-year interval defined by the ASTM standard;
- The oldest aerial photograph available was dated 1942;
- The scale of some aerial photographs created difficulty in discerning site features, specifically structural development on the subject property and adjoining properties;
- There were no fire insurance maps available for the surrounding area;
- City directories did not list the property prior to 1998;
- The previous owner representative (i.e. the Regional Director LSU AgCenter) did not have knowledge of the site prior to 2011;
- The key site manager was a groundskeeper with limited technical knowledge of the past operation and did not have any knowledge of the site prior to 2015;
- The current property owner did not have knowledge of the property before 2014; and
- There were no other standard historical sources likely to provide useful information.

Consequently, PPM was unable to obtain any detailed operational information prior to 2011 for a facility that had operated since 1888. Since the facility made use of hazardous substances and petroleum product after 2011, it is considered very likely that the LSU AgCenter operation also involved hazardous substances and petroleum products from 1888 to 2011. It is also considered likely that as an agricultural research and development facility it would have been using pesticides and herbicides that were considered cutting edge for their times and would have followed the use and disposal practices acceptable for those times. Since PPM has general knowledge of these types of practices, despite these data gaps PPM was able to make a reasonable conclusion regarding recognized environmental conditions.

6.3 ADDITIONAL INVESTIGATION OPINION

In accordance with Practice E1527-13, PPM has provided an opinion regarding additional appropriate investigation, if any, in the circumstance when greater certainty is required regarding the identification of recognized environmental conditions. This opinion does not render the assessment incomplete and is not intended to constitute a recommendation for a Phase II ESA or other assessment activities. Recommendations are not required by this practice and will only be provided at the request of the user.

It is PPM's professional opinion that additional investigation is warranted.

6.4 CONCLUSIONS

PPM has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527 of South Tract, the property. Any exceptions to, or deletions from, this practice are described in **Sections 4.1** and **6.3** of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the property except for the following:

- Hazardous Chemicals- During interviews it was revealed that pesticides, herbicides, and other chemicals were stored and used on the site during the facility's operational history. Although the chemicals were reportedly stored and disposed of properly, spills and leaks may have occurred on the property impacting the soil and groundwater on the subject or adjoining properties. These interviews provided only limited information about chemical use practices during the recent past when environmental regulations were in place. There is no information available for the facility before regulations were enacted (approximately the mid-1970s back to 1888). It is reasonable to

assume that a university affiliated agricultural experimental station would have been testing pesticides, herbicides, and other farm related chemicals that were considered cutting edge for their times; therefore, it is likely that pesticides like Aldrin, chlordane, Dieldrin, and DDT that were considered wonder chemicals in the 1940s were used at the site before they were banned by the USEPA starting in the 1970s. These chemicals were banned because they were hazardous to human health and the environment and were very persistent in the environment. Likewise, proper use and disposal practices of today would be different from what would have been considered acceptable before regulations. For example, sink drains, which in this case could lead to the onsite septic tanks, are known to have been popular and convenient locations for chemical disposal in pre-regulation laboratories and other interior usage areas. At least three floor drains were observed in the laboratory area of Building 1 on the subject property. The drains were located in a slight depression that funneled liquids from the immediate area to the drains. Due to the proximity of the drains to the areas where hazardous chemical handling occurred and because these chemicals may have been released unimpeded into the drains, the drains could have carried hazardous materials offsite or impacted the subsurface or stormwater. The groundskeeper informed PPM during the site reconnaissance that the drains in the laboratory of Building 1 led to a septic tank on the subject property. Together, it is very possible that high concentrations of these highly persistent hazardous substances may still be found in former storage, mixing, and application areas, in septic tank leach fields, and in the ponds and pits that may have received runoff from these areas. It is possible that the storage and mixing areas remained consistent through time, but it is also likely that such areas moved all over the site in its 100-plus year history. The likely use and release of hazardous agricultural chemicals on the subject property by its operations from 1888 to recent times represents a recognized environmental condition.

The following significant data gaps were also encountered by the assessment:

- Southern extremity- PPM was unable to access the southeastern portion of the subject property during site reconnaissance due to the dense vegetation. Due to the long environmental history of the facility, this is considered a significant data gap; therefore, PPM is unable to form an opinion about conditions in this area at this time.

6.5 ENVIRONMENTAL PROFESSIONAL STATEMENT

I, Gregory P. Stover, declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR § 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312. My signature is provided on the cover of this report. My environmental professional qualifications are provided in **Appendix G** of this report.

7.0 NON-SCOPE SERVICES

PPM did not provide any additional services outside the scope of Practice E1527-13.

8.0 COMMONLY USED ABBREVIATIONS

The following is a list of abbreviations that are commonly used in Phase I ESA reports:

AAI	all appropriate inquiries
AST	aboveground storage tank
ASTM	American Society for Testing and Materials
ATG	Automatic Tank Gauge
AUL	activity and use limitations
BTEX	benzene, toluene, ethylbenzene, and xylenes (gasoline components)
BDL	below detection limits
BGS	below ground surface
CAP	Corrective Action Plan
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CERCLIS	Comprehensive Environmental Response Compensation and Liability Information System
CESQG	Conditionally Exempt Small Quantity Generator (<100 kg per month)
CFR	Code of Federal Regulations
C.H.M.M.	Certified Hazardous Materials Manager
C.I.H	Certified Industrial Hygienist
CREC	controlled recognized environmental condition
CSLD	Continuous Statistical Leak Detection
COC	Constituents (or Chemicals) of Concern
CORRACTS	facilities subject to Corrective Action under RCRA
DNAPL	dense non-aqueous phase liquid
ECHO	Enforcement & Compliance History Online (from USEPA)
EDR	Environmental Data Resources
EPA	Environmental Protection Agency
ERNS	Emergency Response Notification System
ESA	Environmental Site Assessment
FOIA	Freedom of Information Act
FRP	Fiberglass Reinforced Plastic
HREC	historical recognized environmental condition
LDEQ	Louisiana Department of Environmental Quality
LLP	landowner liability protections
LQG	Large Quantity Generator of hazardous waste (>1,000 kg per month)
LNAPL	light non-aqueous phase liquid
LUST	leaking underground storage tank
NFA	no further action
NFA ATT	no further action at this time (Louisiana)
NFRAP	no further remedial action is planned under CERCLA
NPDES	National Pollutant Discharge Elimination System
NPL	National Priority List
MCL	Maximum Contaminant Level
MSDS	Material Safety Data Sheet

MTBE	methyl tertiary butyl ether (common gasoline additive)
PAH	polycyclic aromatic hydrocarbons (common diesel components)
PCB	polychlorinated biphenyls
P.G.	Professional Geologist
P.E.	Professional Engineer
ppm	parts per million
PPM	PPM Consultants, Inc.
RECAP	Risk Evaluation/Corrective Action Program (Louisiana)
RCRA	Resource Conservation and Recovery Act
RUST	registered underground storage tank
SARA	Superfund Amendments and Reauthorization Act of 1986
SEMS	Superfund Enterprise Management System
SS	Screening Standard (Louisiana)
SWD	Solid Waste Disposal
SQG	Small Quantity Generator of hazardous waste (100 to 1,000 kg per month)
STIP3	Steel Tank Institute Protection 3
TPH	total petroleum hydrocarbons
TSD	Treatment, Storage, and Disposal
U.S.C.	United States Code
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UST	underground storage tank

9.0 GLOSSARY OF KEY TERMS

The following is a list of key terms used in this report with definitions per Practice E1527-13:

activity and use limitations (AUL): legal or physical restrictions or limitations on the use of, or access to, a site or facility: (1) to reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil, soil vapor, groundwater, and/or surface water on the property, or (2) to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment. These legal or physical restrictions, which may include institutional and/or engineering controls, are intended to prevent adverse impacts to individuals or populations that may be exposed to hazardous substances and petroleum products in the soil, soil vapor, groundwater, and/or surface water on the property.

adjoining properties: any real property or properties the border of which is contiguous or partially contiguous with that of the property, or that would be contiguous or partially contiguous with that of the property but for a street, road, or other public thoroughfare separating them.

bona fide prospective purchaser: One of the three Landowner Liability Protections (LLPs). A person may qualify as a bona fide prospective purchaser if, among other requirements, such person made “all appropriate inquiries into the previous ownership and uses of the facility in accordance with generally accepted good commercial and customary standards and practices.” Knowledge of contamination resulting from all appropriate inquiries would not generally preclude this liability protection. A person must make all appropriate inquiries on or before the date of purchase.

business environmental risk: a risk which can have a material environmental or environmentally-driven 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 this practice. Consideration of business environmental risk issues may involve addressing one or more non-scope considerations.

contiguous property owner: One of the three Landowner Liability Protections (LLPs). A person may qualify for the *contiguous property owner liability protection* if, among other requirements, such person owns real property that is contiguous to, and that is or may be contaminated by *hazardous substances* from other real property that is not owned by that person. Furthermore, such person conducted *all appropriate inquiries* at the time of acquisition of the property and did not know or have reason to know that the property was or could be contaminated by a *release* or threatened *release* from the contiguous property. The *all appropriate inquiries* must not result in knowledge of contamination. If it does, then such person did “know” or “had reason to know” of contamination and would not be eligible for the *contiguous property owner liability protection*.

controlled recognized environmental condition (CREC): a recognized environmental condition 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 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 (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). A condition considered by the environmental professional to be a controlled recognized environmental condition shall be listed in the findings section of the Phase I Environmental Site Assessment report, and as a recognized environmental condition in the conclusions section of the Phase I Environmental Site Assessment report.

data failure: a failure to achieve the historical research objectives set by Practice E1527-13 even after reviewing the standard historical sources listed by Practice E1527-13 that are reasonably ascertainable and likely to be useful. Data failure is one type of data gap.

data gap: a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information. Data gaps may result from incompleteness in any of the activities required by Practice E1527-13, including, but not limited to site reconnaissance, interviews, and document reviews. Data gaps that affect the environmental professional's ability to identify recognized environmental conditions are significant data gaps. For example, if a building on the property is inaccessible during the site visit, and the environmental professional's experience indicates that such a building often involves activity that leads to a recognized environmental condition, the inability to inspect the building would be a significant data gap warranting comment in the report.

de minimis condition: a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimis conditions are not recognized environmental conditions nor controlled recognized environmental conditions.

environment: CERCLA 42 U.S.C. § 9601(8) defines "environment" to mean (A) the navigable waters, the waters of the contiguous zone, and the ocean waters of which the natural resources are under the exclusive management authority of the United States under the Magnuson-Stevens Fishery Conservation and Management Act [16 U.S.C. 1801 et seq.], and (B) any other surface water, ground water, drinking water supply, land surface or subsurface strata, or ambient air within the United States or under the jurisdiction of the United States.

environmental lien: a charge, security, or encumbrance upon title to a property to secure the payment of a cost, damage, debt, obligation, or duty arising out of response actions, cleanup, or other remediation of hazardous substances or petroleum products upon a property.

environmental professional: a person meeting the education, training, and experience requirements as set forth in 40 CFR §312.10(b).

hazardous substance: a substance defined as a hazardous substance pursuant to CERCLA 42 U.S.C. §9601(14), as interpreted by EPA regulations and the courts. The term does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance, and the term does not include natural gas, natural gas liquids, liquefied natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).

historical recognized environmental condition (HREC): 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 (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). Before calling the past release a historical recognized environmental condition, the environmental professional must determine whether the past release is a recognized environmental condition at the time the Phase I Environmental Site Assessment is conducted (for example, if there has been a change in the regulatory criteria). If the EP considers the past release to be a recognized environmental condition at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as a recognized environmental condition.

innocent landowner: One of the three Landowner Liability Protections (LLPs). A person may qualify as one of three types of innocent landowners: (i) a person who "did not know and had no reason to know" that contamination existed on the property at the time the purchaser acquired the property; (ii) a government entity which acquired the property by escheat, or through any other involuntary transfer or acquisition, or through the exercise of eminent domain authority by purchase or condemnation; and (iii) a person who "acquired the facility by inheritance or bequest." To qualify for the innocent landowner defense, such person must have made all appropriate inquiries on or before the date of purchase. Furthermore, the all appropriate inquiries must not have resulted in knowledge of the contamination. If it does, then such person did "know" or "had reason to know" of contamination and would not be eligible for the innocent landowner defense.

key site manager: the person identified by the owner or operator of a property as having good knowledge of the uses and physical characteristics of the property.

Landowner Liability Protections (LLPs): landowner liability protections under CERCLA; these protections include the bona fide prospective purchaser liability protection, contiguous property owner liability protection, and innocent landowner defense from CERCLA liability. See 42 U.S.C. §§9601(35)(A), 9601(40), 9607(b), 9607(q), 9607(r).

material threat: a physically observable or obvious threat which is reasonably likely to lead to a release that, in the opinion of the environmental professional, is threatening and might result in impact to public health or the environment. An example might include an aboveground storage tank system that contains a hazardous substance and which shows evidence of damage. The damage would represent a material threat if it is deemed serious enough that it may cause or contribute to tank integrity failure with a release of contents to the environment.

migrate/migration: for the purposes of this practice, "migrate" and "migration" refers to the movement of hazardous substances or petroleum products in any form, including, for example, solid and liquid at the surface or subsurface, and vapor in the subsurface.

obvious: that which is plain or evident; a condition or fact that could not be ignored or overlooked by a reasonable observer while visually or physically observing the property.

petroleum products: those substances included within the meaning of the petroleum exclusion to CERCLA, 42 U.S.C. §9601(14), as interpreted by the courts and EPA, that is: petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance under Subparagraphs (A) through (F) of 42 U.S.C. § 9601(14), natural gas, natural gas liquids, liquefied natural gas, and synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas). (The word fraction refers to certain distillates of crude oil, including gasoline, kerosine, diesel oil, jet fuels, and fuel oil, pursuant to Standard Definitions of Petroleum Statistics.)

practically reviewable: information that is practically reviewable means that the information is provided by the source in a manner and in a form that, upon examination, yields information relevant to the property without the need for extraordinary analysis of irrelevant data. The form of the information shall be such that the user can review the records for a limited geographic area. Records that cannot be feasibly retrieved by reference to the location of the property or a geographic area in which the property is located are not generally practically reviewable. Most databases of public records are practically reviewable if they can be obtained from the source agency by the county, city, zip code, or other geographic area of the facilities listed in the record system. Records that are sorted, filed, organized, or maintained by the source agency only chronologically are not generally practically reviewable. Listings in publicly available records which do not have adequate address information to be located geographically are not generally considered practically reviewable. For large databases with numerous records (such as RCRA hazardous waste generators and registered underground storage tanks), the records are not practically reviewable unless they can be obtained from the source agency in the smaller geographic area of zip codes. Even when information is provided by zip code for some large databases, it is common for an unmanageable number of sites to be identified within a given zip code. In these cases, it is not necessary to review the impact of all of the sites that are likely to be listed in any given zip code because that information would not be practically reviewable. In other words, when so much data is generated that it cannot be feasibly reviewed for its impact on the property, it is not practically reviewable.

property: the real property that is the subject of the environmental site assessment described in this report. Real property includes buildings and other fixtures and improvements located on the property and affixed to the land.

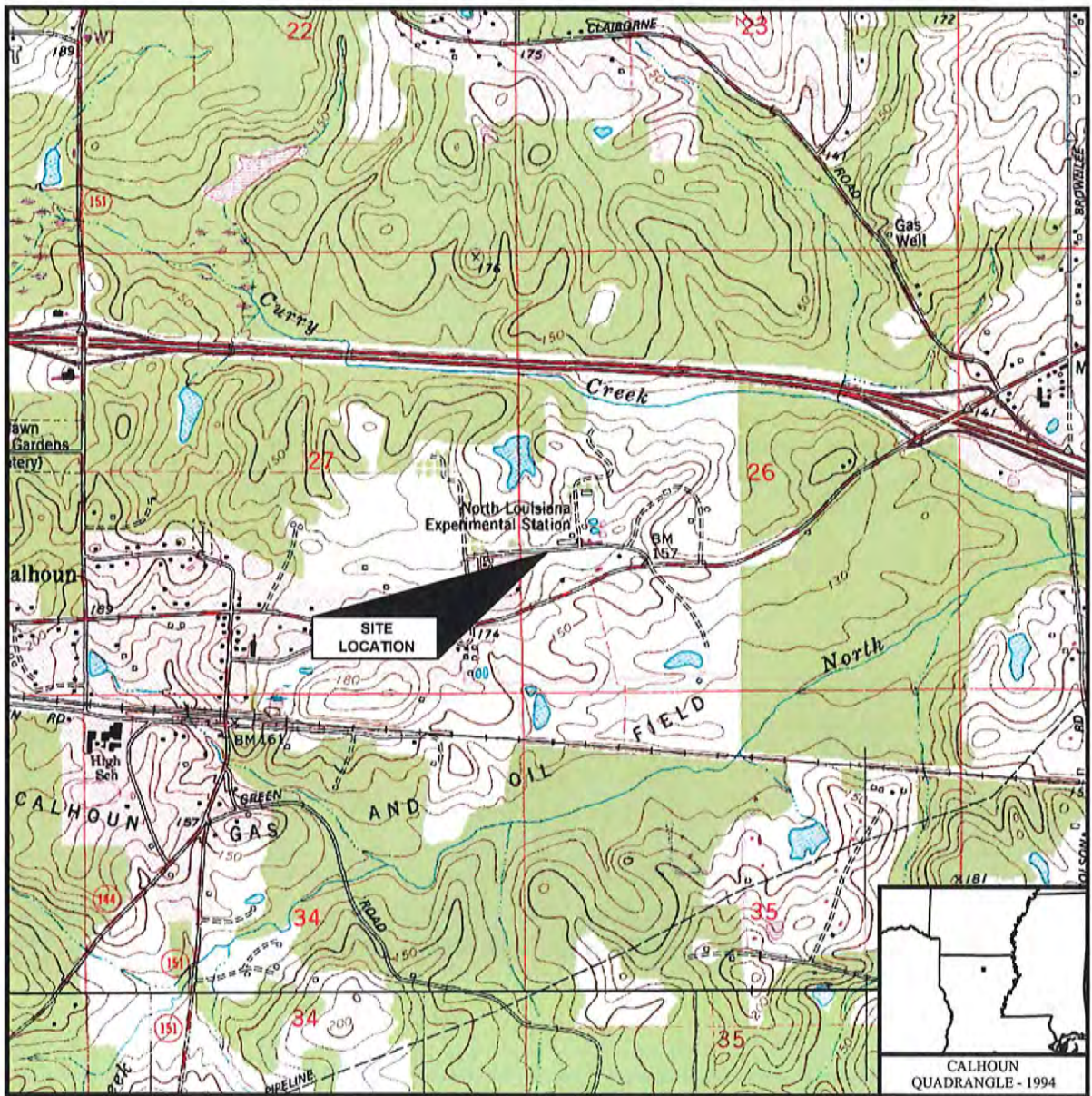
recognized environmental condition: the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions

indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.

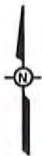
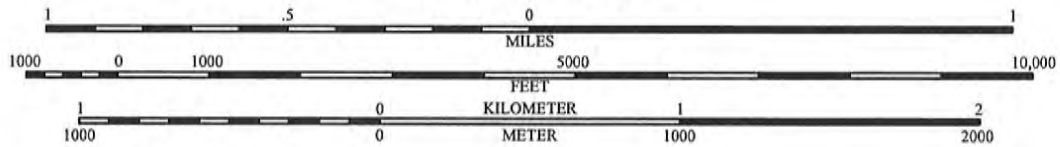
release: a release of any hazardous substance or petroleum product shall have the same meaning as the definition of "release" in CERCLA 42 U.S.C. § 9601(22)). The first element for establishing CERCLA liability is that there must be a release or threatened release of hazardous substances from a facility or a vessel. A release or threatened release of a hazardous substance includes any "spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping or disposing into the environment (including the abandonment or discarding of barrels, containers and other closed receptacles containing any hazardous substance, or pollutant or contaminant."

APPENDICES

APPENDIX A – FIGURES



SCALE: 1 : 24,000



PPM CONSULTANTS, INC.
www.ppmco.com

DRAWN BY:

JCP

DRAWN DATE:

02/13/17

PROJECT NUMBER:

11452003

BILLING GROUP:

ESAI

LAZENBY AND ASSOCIATES,
INC.
SOUTH TRACT
321 U.S. HIGHWAY 80
CALHOUN, LOUISIANA

SITE LOCATION MAP

FIGURE
NUMBER

1

Z:\Lazenby & Associates\11452003 - South Tract\Esai\11452003-ESA1.dwg, 2 Site - Area Map, 2/13/2017 10:34:55 AM, lay



I.D.	DESCRIPTION
1	UNDEVELOPED LAND
2	RESIDENCES
3	NORTH TRACT

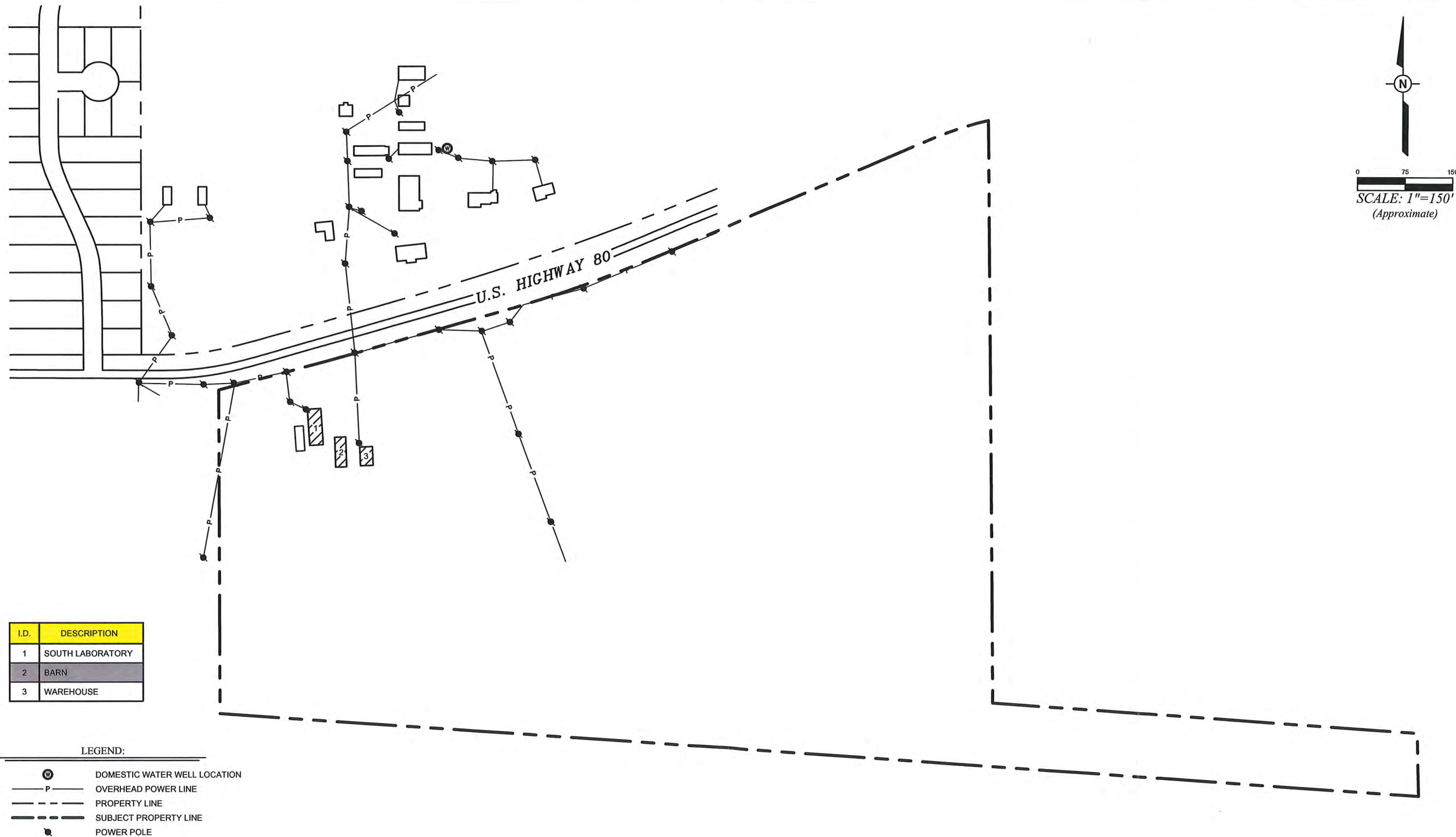
PPM PPM CONSULTANTS, INC. www.ppmco.com	
DRAWN BY: JCP	DRAWN DATE: 02/13/17
PROJECT NUMBER: 11452003	BILLING GROUP: ESAI

LAZENBY AND ASSOCIATES, INC.
SOUTH TRACT
321 U.S. HIGHWAY 80
CALHOUN, LOUISIANA

SITE / AREA MAP

FIGURE
NUMBER
2

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<div>PPM</div> <div>PPM CONSULTANTS, INC.</div> <div>www.ppmco.com</div>	
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LAZENBY AND ASSOCIATES, INC.
SOUTH TRACT
321 U.S. HIGHWAY 80
CALHOUN, LOUISIANA

BUILDING LOCATIONS

FIGURE
NUMBER
3

APPENDIX B – USER PROVIDED INFORMATION

Tract 2 (South Tract)
87.532 Acre Tract
Sections 26, 27, 34, & 35, T18N, R1E
Land District North of Red River
Ouachita Parish, Louisiana
L & A, Inc. Project No. 13E028.01

PROPERTY DESCRIPTION

A certain tract or parcel of land situated in Sections 26, 27, 34 & 35, Township 18 North, Range 1 East, Land District North of Red River, Ouachita Parish, Louisiana, and being more particularly described as follows:

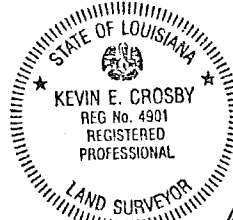
Commence at a found ½" iron pipe at the corner common to Sections 25, 26, 35 & 36, Township 18 North, Range 1 East, Land District North of Red River, Ouachita Parish, Louisiana; proceed South 89°53'50" West along the south line of said Section 26, a distance of 2,637.58 feet to a found ½" iron pipe at the South ¼ corner of said Section 26; thence proceed South 00°05'24" East along the east line of the Northeast ¼ of the Northwest ¼ of Section 35, a distance of 468.29 feet to the **POINT OF BEGINNING**; thence continue South 00°05'24" East along the east line of said Northeast ¼ of the Northwest ¼, a distance of 200.66 feet to the intersection of said east line of the Northeast ¼ of the Northwest ¼ with the north right-of-way line of the Kansas City Southern Railroad; thence proceed North 85°25'33" West along said north right-of-way line, a distance of 3,727.17 feet to a set 5/8" rebar; thence proceed North 00°06'12" West parallel to the west line of the Northeast ¼ of the Northeast ¼ of Section 34, a distance of 370.03 feet to a set 5/8" rebar on the south line of Section 27; thence proceed North 00°14'48" West parallel to the west line of the Southeast ¼ of the Southeast ¼ of said Section 27, a distance of 640.25 feet to a set 5/8" rebar on the south right-of-way line of U.S. Hwy 80; thence proceed in a Northeasterly direction along said south right-of-way line and along the arc of a non-tangent curve to the left, an arc distance of 119.01 feet (Radius – 1,015.37 feet, Chord= North 77°47'04" East – 118.94 feet) to a set 5/8" rebar; thence proceed North 74°25'36" East along said south right-of-way line, a distance of 802.70 feet to a set 5/8" rebar; thence proceed in a Northeasterly direction along said south right-of-way line and along the arc of a curve to the left, an arc distance of 484.73 feet (Radius – 3,879.83 feet, Chord= North 70°50'51" East – 484.42 feet) to a set 5/8" rebar; thence proceed North 67°16'06" East along said south right-of-way line, a distance of 935.97 feet to a set 5/8" rebar; thence proceed in a Northeasterly direction along said south right-of-way line and along the arc of a curve to the right, an arc distance of 193.30 feet (Radius – 895.37 feet, Chord= North 73°27'11" East – 192.92 feet) to a set 5/8" rebar at the intersection of said south right-of-way line with the east line of the Northwest ¼ of the Southwest ¼ of Section 26; thence proceed South 00°10'23" East along the east line of the West ½ of the Southwest ¼ of said Section 26, a distance of 1,458.29 feet to a set 5/8" rebar at the northwest corner of the Northeast ¼ of the Northwest ¼ of Section 35; thence proceed South 00°04'58" East along the west line of said Northeast ¼ of the Northwest ¼, a distance of 359.34 feet to a set 5/8" rebar; thence proceed South 85°25'33" East parallel to the north right-of-way line of the Kansas City Southern Railroad, a distance of 1,322.41 feet to the **POINT OF BEGINNING**, containing 87.532 acres, more or less, and being subject to all easements, servitudes, and rights-of-way of record and/or of use.

AND BEING SUBJECT TO A 100' WIDE SERVITUDE for pedestrian, vehicular and/or rail access and for utilities located in the Northeast ¼ of the Northwest ¼ of Section 35, Township 18 North, Range 1 East, Land District North of Red River, Ouachita Parish, Louisiana and being more particularly described as follows:

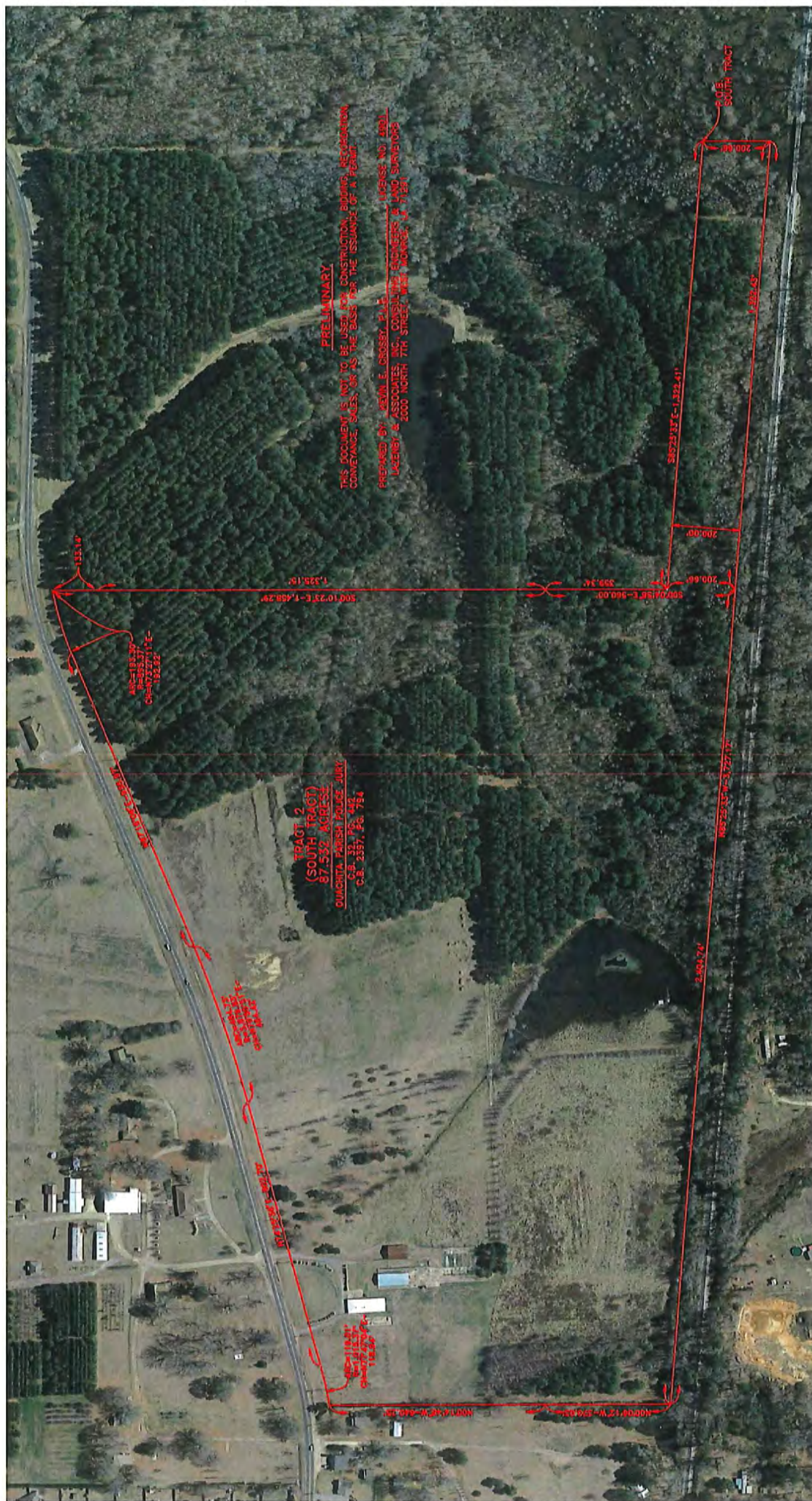
Commence at a found ½" iron pipe at the corner common to Sections 25, 26, 35 & 36, Township 18 North, Range 1 East, Land District North of Red River, Ouachita Parish, Louisiana; proceed South 89°53'50" West along the south line of said Section 26, a distance of 2,637.58 feet to a found ½" iron pipe at the South ¼ corner of said Section 26; thence proceed South 00°05'24" East along the east line of the Northeast ¼ of the Northwest ¼ of Section 35, a distance of 468.29 feet; thence proceed North 85°25'33" West parallel to the north right-of-way line of Kansas City Southern Railroad, a distance of 395.36 feet to the **POINT OF BEGINNING**; thence proceed in a southwesterly direction along the arc of a non-tangent curve to the right, an arc distance of 266.65 feet (Radius – 625.00 feet, Chord = South 45°28'55" West – 264.63 feet) to the north right-of-way line of the Kansas City Southern Railroad; thence proceed North

85°25'33" West along said north right-of-way line, a distance of 214.92 feet; thence proceed in a northeasterly direction along the arc of a non-tangent curve to the left, an arc distance of 342.67 feet (Radius – 525.00 feet, Chord = North 58°07'22" East – 336.62 feet); thence proceed South 85°25'33" East, a distance of 117.45 feet to the **POINT OF BEGINNING**, containing 0.677 acres, more or less, and being subject to all easements, servitudes and right-of-way of record and/or of use. The location of this Servitude can be moved with consent from both parties.

This description is based on the Boundary Survey and Plat prepared by Kevin E. Crosby, Registered Professional Land Surveyor, dated January 24, 2017.



Kevin E. Crosby
1/24/17





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BASED ON FLOOD INSURANCE RATE MAP NO.2207303119Z (JANUARY 20, 2016), FOR COUNCHAPEA PARISH, LOUISIANA, A PORTION OF THE PROPERTY SHOWN HEREON LIES IN FLOOD ZONE "A", WHICH IS DETERMINED TO BE A SPECIAL FLOOD HAZARD AREA SUBJECT TO FLOODING OF THE 1% ANNUAL CHANCE FLOOD WITH NO BASE FLOOD ELEVATION DETERMINED. THE REMAINDER OF THE PROPERTY LIES IN ZONE "X", WHICH IS DETERMINED TO BE AN AREA OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

[illegible]

DECLARATION

I, JOHN L. CROTTY, P.L.G., A LICENSED PROFESSIONAL SURVEYOR IN THE STATE OF LOUISIANA, DO HEREBY CERTIFY THAT I HAVE PERSONALLY AND INDEPENDENTLY EXAMINED THE FOREGOING INSTRUMENT, AND I AM AWARE OF THE CONTENTS THEREOF. I AM NOT PROVIDING ANY OPINION OR GUARANTEE OF THE ACCURACY OF THE INFORMATION AS ESTABLISHED BY THE LOUISIANA PROFESSIONAL SURVEYORS BOARD AND LAND SURVEYING BOARD AND TO THE BEST OF MY KNOWLEDGE THIS IS A TRUE REPRESENTATION OF THAT INSTRUMENT.

John L. Crotty

JOHN L. CROTTY, P.L.G. NO. 4801

DATE 11/21/17

BOUNDARY SURVEY
CALHOUN TECHNOLOGY PARK
TRACT 2 (SOUTH TRACT)
(87.832 ACRES)
250 HWY 60 EAST
CALHOUN, LA 71225

STANDARD BONDERS 26, 27, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857,

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3/15/73	REPAID DISCOUNT	M.F.C.	
4/15/73	REPAID TRACTS & RENT	M.F.C.	
5/15/73	REPAID TRACTS & RENT	M.F.C.	

PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

**LAZENBY AND ASSOCIATES, INC.
CALHOUN TECHNOLOGY PARK
321 US HIGHWAY 80 EAST
CALHOUN, LOUISIANA**

PPM PROJECT NO. 11452001.ESA1

APRIL 6, 2015

PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

AT

**CALHOUN TECHNOLOGY PARK
321 US HIGHWAY 80
CALHOUN, LOUISIANA**

PREPARED FOR:

**LAZENBY AND ASSOCIATES, INC.
2000 NORTH 7TH STREET
WEST MONROE, LOUISIANA 71291**

PPM PROJECT NO. 11452001.ESA1

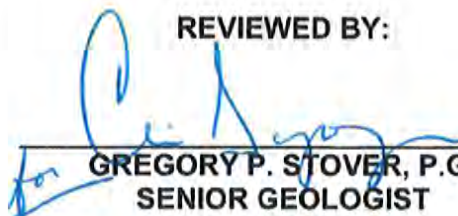
APRIL 6, 2015

PREPARED BY:



**JORDAN HARPER
ENVIRONMENTAL SPECIALIST**

REVIEWED BY:



**GREGORY P. STOVER, P.G.
SENIOR GEOLOGIST**

**PPM CONSULTANTS, INC.
SHAWN P. IVEY, P.G.
1600 LAMY LANE
MONROE, LOUISIANA 71201
(318) 323-7270**

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FIGURES (Appendix A)

Figure 1 – Site Location Map

Figure 2 – Site/Area Map

Figure 3 – Building Location

APPENDICES

Appendix A – Figures

Appendix B – User Provided Information

Appendix C – Site Photographs

Appendix D – Regulatory Research Documentation

Appendix E – Historical Records Documentation

Appendix F – Other Documentation

Appendix G – Qualifications of Environmental Professionals

EXECUTIVE SUMMARY

PPM Consultants, Inc. (PPM) was retained by the Lazenby and Associates, Inc. to conduct a Phase I Environmental Site Assessment (ESA) of the Calhoun Technology Park at 321 US Highway 80 East in Calhoun, Louisiana. The purpose of this assessment was to identify recognized environmental conditions in connection with the property by means of interviews, review of record information, and site reconnaissance. The environmental assessment was conducted in conformance with the scope of ASTM International Standard Practice E 1527-13.

PPM conducted the site reconnaissance on March 16, 2015. The facility is currently an unoccupied research facility. The property is generally irregular in shape, bordered to the north by Interstate 20 and to the south by the Kansas City Southern Railroad, occupying 328.684 acres in size. Improvements to the site include a total of 20 free standing structures on the subject property, along with three former pump houses, one water well shed, one weather station shed, and three metal water tanks. Due to the number of structures on the subject property each building has been assigned reference numbers, laid out in in **Figure 2** and **Figure 3**. The property is located in a rural, residential area of Calhoun, Louisiana. Available historical resources indicate that the property was developed as a LSU AgCenter Research Station in 1888 and has been unoccupied since LSU vacated the facility in November 2014.

This assessment has revealed no evidence of recognized environmental conditions in connection with the property except for the following:

- **Historical and current use of the subject property.** According to the LSU AgCenter website, “the Calhoun Research Station, established in 1888, is the oldest facility of its kind in the state. Research has focused on dairy, peaches and watermelons. Today, the focus is on wood products and helping the forestry industry. A goal of the station’s research is to waste no wood. Scientists are working to extract chemicals from treated wood and recycle both for beneficial use. Other research includes uses for low-quality wood products while improving the environment.” Historical aerial photographs indicate the existence of at least 50 structures on the subject property since 1942. Site reconnaissance shows 20 current structures on the subject property. The facility has been unoccupied since LSU vacated the research facility in November 2014, after a funding cut. Potential concerns with the current uses of the property include the following:
 - Pits east of Former Bauxite Storage Building- Four pits were constructed east of the Former Bauxite Storage Building to hold chick litter associated with an

agricultural runoff mitigation experiment. The pits were filled with bio solids including chick litter in an attempt to simulate hazards associated with production farms. In a 2006 letter to the Louisiana Department of Environmental Quality (LDEQ) these pits were described as a non-point source pollution problem containing high phosphorous levels very susceptible to surface runoff that leads to eutrophication of nearby watersheds. Four cubic yards of bauxite residue were requested to reduce mobility of "heavy metals" from the site. Mr. Thomas informed PPM that these pits were later filled in using demolition debris and trash from the site. In a 2007 inspection asbestos was found in the buildings on the site.

- Aerial photographs show the pits were buried between 1998 and 2014. Approximately 30 historical buildings are no longer present on the site. If these buildings were the source of the demolition debris used in filling the pits, then hazardous waste materials in the form of asbestos have been buried on site. The suspected disposal of asbestos containing demolition debris on the site is considered to be a recognized environmental condition.
- Hazardous Chemicals- During interviews it was revealed that pesticides, herbicides, and other chemicals were stored and used on the site during the facility's operational history. Although the chemicals were reportedly stored and disposed of properly, spills and leaks may have occurred on the property impacting the soil and groundwater on the subject or adjoining properties. These interviews provided only limited information about chemical use practices during the recent past when environmental regulations were in place. There is no information available for the facility before regulations were enacted (approximately the mid-1970s back to 1888). It is reasonable to assume that a university affiliated agricultural experimental station would have been testing pesticides, herbicides, and other farm related chemicals that were considered cutting edge for their times; therefore, it is likely that pesticides like Aldrin, Chlordane, Dieldrin, and DDT that were considered wonder chemicals in the 1940s were used at the site before they were banned by the USEPA starting in the 1970s. These chemicals were banned because they were hazardous to human health and the environment and were very persistent in the environment. Likewise, proper use and disposal practices of today would be different from what would have been considered acceptable before regulations. For example, sink drains, which in this case could lead to the onsite septic tanks, are known to have been popular and convenient locations for chemical disposal in pre-regulation laboratories and other interior usage areas. At least

three floor drains were observed in the laboratory area of Building 15 on the southern portion of the subject property. The drains were located in a slight depression that funneled liquids from the immediate area to the drains. Due to the proximity of the drains to the areas where hazardous chemical handling occurred and because these chemicals may have been released unimpeded into the drains, the drains could have carried hazardous materials offsite or impacted the subsurface or stormwater. The groundskeeper informed PPM during the site reconnaissance that the drains in the laboratory of Building 15 led to a septic tank on the subject property. One storm drain located west of Building 4 received storm water and runoff from the surrounding area including the pesticide storage building where hazardous chemicals may have been released unimpeded into the storm drain. The storm drain conveys water into the northern irrigation pond. Although there was no evidence of staining or odors from the drain indicative of a chemical impact, the potential for historical or current contamination of stormwater exists. Together, it is very possible that high concentrations of these highly persistent hazardous substances may still be found in former storage, mixing, and application areas, in septic tank leach fields, and in the ponds and pits that may have received runoff from these areas. It is possible that the storage and mixing areas remained consistent through time, but it is also likely that such areas moved all over the site in its 100-plus year history. The likely use and release of hazardous agricultural chemicals on the subject property by its operations from 1888 to recent times represents a recognized environmental condition.

- Former gasoline UST. One 500-1000 gallon gasoline Underground Storage Tank (UST) was located adjacent to Building 10 to fuel the farm equipment on the subject property. According to Mr. Thomas, the tank was removed in 2008 or 2009 without incident. Mr. Juneau, with the LDEQ UST Division, informed PPM that, USTs below 1,100 gallons on farms were exempt from LDEQ registration and may be removed without testing or LDEQ inspection; and without incident, would not require reporting to the LDEQ. Based on PPM's experience, the only "incident" that inexperienced people are likely to notice is free product in the excavation, but without laboratory analysis of soil and groundwater samples the implied "without incident" does not eliminate the possibility of a release that exceeds regulatory action levels. Although the UST may have been closed in accordance with LDEQ regulations for an exempt farm tank, the lack of closure information does not preclude the possibility that a release of petroleum products to the subsurface has occurred; therefore, the former gasoline UST represents a recognized environmental condition.

- Gas well and gas pipeline. The Department of Natural Resources (DNR) provides a publically accessible database, SONRIS, which includes information on well registration and use. SONRIS identified four gas wells located in the eastern portion of the site. The database indicates one triple completion well along a service road and one single completion well to the northeast of the active site. The northeastern well is 9,746 feet deep and produced natural gas between 1960 and 1966, but has been plugged and abandoned since September 20, 1966. The triple completion well was first spudded March 31, 1959, with a measured depth of 9,904 feet, the dual and triple completions were added in 1968, operating until they were plugged and abandoned in 1983. The active well is currently operated by Linn Operating, Inc in the Cotton Valley D sands and pumping natural gas. No oil extraction from the well has been reported since June 2011. Mr. York explained that the responsibility for an active or abandoned well rests on the company registered as the well operator. If a problem were to arise in association with the wells on the subject property the land owner would not be held responsible. Based on the long term historical operation of the wells and the risk associated with transporting natural gas through the property, the gas wells and the gas pipeline on the subject property represent a recognized environmental condition.

The following significant data gap was also encountered by this assessment:

- The earliest available records for the subject property date back to 1942. At that time the land was operating as a LSU AgCenter research facility. PPM was unable to determine site use or research procedures prior to 1942. It is possible that this land use may have involved hazardous substances or petroleum products. Since this land use cannot be determined from the available historical resources, our inability to make reasonable conclusions is considered a significant data gap.
- Southern extremity- PPM was unable to access the southeastern portion of the subject property during site reconnaissance due to the dense vegetation. Due to the long environmental history of the facility, this is considered a significant data gap; therefore, PPM is unable to form an opinion about conditions in this area at this time.
- Septic system. PPM was informed by Mr. Thomas that the site operates on a system of septic tanks in addition to the pools of wastewater on the northwestern portion of the subject property. The Ouachita Parish Department for Health and Hospitals', Environmental Health Specialist, Greg Hill, was unable to locate any documentation as to the nature or presence of these septic tanks. Mr. Hill informed PPM, it is likely that the LSU facility never registered the septic system and would

not have reported any issues pertaining to their use or upkeep. Based on the unknown state of the onsite septic system and possibility of hazardous substances draining into the septic tanks, this is considered a significant data gap; therefore, PPM is unable to form an opinion at this time.

1.0 INTRODUCTION

1.1 PROPERTY IDENTIFICATION

Property Name:	Calhoun Technology Park			
Current Property Owner:	Ouachita Police Jury			
Current Site Use:	Unoccupied – formerly LSU AgCenter Research Station			
Land Area in Acres:	328.684 Acres			
Street Address:	321 US Highway 80			
County/Parish:	Ouachita			
City, State, Zip Code:	Calhoun, Louisiana 71225			
UTM Coordinates:	32° 30' 52.1''N	Latitude	92° 20' 44.4''W	Longitude
Tax Parcel ID(s):	123751, 123752, 1327			
Date of Site Visit:	March 16, 2015			
Attachments:	Site location is shown on Figure 1, Site Location Map, Appendix A.			
	Site map is shown on Figure 2, Site/Area Map, Appendix A.			
	Legal description (if obtained) is provided in Appendix F.			

1.2 PURPOSE

PPM Consultants, Inc. (PPM) was retained by Lazenby and Associates, Inc. to conduct a Phase I Environmental Site Assessment (ESA) of the above-referenced property in accordance with ASTM Standard Practice E 1527-13. The purpose of the ASTM Standard Practice E 1527-13 is:

“to define good commercial and customary practice in the United States of America for conducting an environmental site assessment of a parcel of commercial real estate with respect to the range of contaminants within the scope of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (42 U.S.C. §9601) and petroleum products. As such, this practice is intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability (hereinafter, the “landowner liability protections,” or “LLPs”): that is, the practice that constitutes all appropriate inquiries into the previous ownership and uses of the property consistent with good commercial and customary practice as defined at 42 U.S.C. §9601(35)(B).

The goal of the process established by this practice is to identify recognized environmental conditions associated with the property. The term recognized environmental condition is defined by Practice E 1527-13 as:

“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. De minimis conditions are not recognized environmental conditions.” Release to the environment entails the migration or movement of hazardous substances or petroleum products in any form, including solids and liquids at the surface or subsurface, and vapor in the subsurface to, within, or from the property. If such conditions exist on the property, and are not de minimis, the condition is a recognized environmental condition.

Key terms used in this report that are specifically defined by Practice E1527-13 are provided in **Section 9.0, Glossary of Key Terms**.

1.3 CONTINUED VIABILITY AND USER RELIANCE

ASTM defines the “user” as the party seeking to use Practice E1527-13 to complete an ESA of the property. A user may include, without limitation, a potential purchaser of property, a potential tenant of property, an owner of property, a lender, or a property manager. The findings and conclusions contained within this report may not be used or relied upon by any other parties without the written consent of the client that contracted PPM to conduct this assessment and PPM. The client may designate other users who may rely on this report. All users currently identified by the client are named in **Section 2.1** of this report.

In accordance with the ASTM practice, this report may be relied upon by the user(s) for a period of up to 180 days prior to the date of acquisition or transaction. If the transaction occurs after 180 days, but prior to one year, this report may be used provided that the following components of the report are updated:

- Interviews with owners, operators, and occupants;
- Searches for recorded environmental cleanup liens;
- Visual inspection of the property and of adjoining properties;
- Reviews of federal, tribal, state, and local government records;
- Visual inspections of the property and of adjoining properties; and

- And declaration by the environmental professional for the assessment or update.

If a party different from the original user(s) intends to use this report, the subsequent user(s) must also satisfy the following requirements at a minimum:

- Obtain written authorization to rely on this report from the original client and PPM;
- Fulfill the User's Responsibilities outlined in **Section 2.0**; and
- Contract PPM to update the report if the original report is over 180 days and less than one year old.

If the report is greater than one year old at the time of acquisition by any user, no part of the report can be relied upon in order to satisfy all appropriate inquiry.

2.0 USER PROVIDED INFORMATION

2.1 USERS OF REPORT

Lazenby and Associates, Inc. contracted PPM to perform this Phase I ESA and are considered the client and a user of this report.

2.2 USER QUESTIONNAIRE

The "All Appropriate Inquiries" Final Rule (40 CFR Part 312) requires that certain tasks be performed by or on behalf of a party seeking to qualify for landowner liability protections (LLP) to CERCLA liability (i.e. the user). While such information is not required to be provided to the environmental professional (i.e. PPM), the environmental professional must request information from the user to assist in identifying recognized environmental conditions. The User Questionnaire found in Appendix X3 of Practice E1527-13 was provided to each of the users identified in **Section 2.1**. Responses to the User Questionnaire are provided in **Appendix B**. Additional information provided to questions answered in the affirmative by the user on the questionnaire, are summarized as follows:

- Ms. Crosby stated that Lazenby and Associates, Inc. could produce a legal description of the property. The legal description was provided to PPM in the form of a Land Title Survey drawing, which is included in **Appendix B**.

2.3 TITLE SEARCH

The client/user did not provide a title search for environmental liens or activity and use limitations (AUL) filed or recorded against the property. The client/user also did not contract PPM to provide this service.

2.4 OTHER INFORMATION PROVIDED BY USER

Other information provided by the user includes the following:

- The user identified the property as an unoccupied agricultural research facility;
- The user stated the reason for the Phase I was to satisfy the requirements for an LED Site Certification;
- The user stated that the type of property transaction was a donation reverting back to the Ouachita Parish Police Jury as the original owner;
- The user identified Ouachita Parish Police Jury as the site owner;
- The user identified Mr. Brad Cammack, at (318) 327-1340 as the site owner and contact; and
- The user provided a Boundary Survey Plat for the subject property.

Information provided by the user is attached in **Appendix B**.

2.5 USER SPECIFIED TERMS, CONDITIONS, AND LIMITATIONS

The client did not request or specify any special terms, conditions, limitations, or considerations that would limit, deviate from, reduce, or add to the scope of this assessment with respect to Practice E1527-13.

3.0 RECORDS REVIEW

PPM conducted a review of reasonably ascertainable and usable records to help identify recognized environmental conditions in connection with the property. Information sources fall into the following categories: (1) Standard Environmental Record Sources that are specific lists of facilities typically involving hazardous substances or petroleum products and are regulated or recorded by federal, state, or tribal regulatory agencies; (2) Regulatory Agency File and Record Sources that are typically used to further research facilities

identified by the Standard Environmental Record Sources; (3) Other Environmental Record Sources that may include previous assessments of the property; (4) Physical Setting Sources that provide information about the geologic, hydrogeologic, hydrologic, or topographic characteristics primarily used to evaluate the potential for contaminant migration from facilities identified by the Standard Environmental Record Sources; and (5) Standard Historical Sources, which have the primary objective to identify property land use from the present, back to the property's first developed use, or back to 1940, whichever is earlier. Information on available records is provided in the following sections.

3.1 ENVIRONMENTAL RECORD SOURCES

PPM retained the services of Environmental Data Resources, Inc. (EDR) to provide information available from state, tribal, and federal databases regarding reported environmental activities and releases in the site vicinity. PPM also reviewed federal and state electronic databases, where available, for files relevant to this ESA. A review of previous reports and other environmental documents that may have been provided by the user or other sources was also completed.

3.1.1 Standard Environmental Record Sources

Third-party providers of database searches such as EDR typically yield a large number of sites and a significant volume of environmental information. ASTM requires the Environmental Professional to evaluate the data and use their judgment regarding the level of detail to discuss and present regarding each of the listed sites. While numerous sites may be within the ASTM minimum search distance, many are located at significant distances from the subject property and based on this distance and other site-specific characteristics (site geology/hydrogeology, gradient, drainage, etc.) are unlikely to impact the subject property and therefore may be reasonably dismissed from further discussion in this section at the discretion of the Environmental Professional. The information presented below represents a summary of database searches and corresponding minimum search distances required by ASTM 1527-13. Also included is available relevant information from regulatory agency files researched.

SUMMARY OF DATABASE REVIEW			
Type of Site	ASTM Minimum Search Distance	Number Identified	
		Potential	Actual
Federal NPL	1 mile	0	0
Federal CERCLIS	0.5 mile	0	0
Federal CERCLIS-NFRAP	0.5 mile	0	0
Federal RCRA CORRACTS	1 mile	0	0

Federal RCRA TSD	0.5 mile	0	0
Federal RCRA Generator	On or Adjoining	0	0
Federal ERNS	On site	0	0
State/Tribal Equivalent NPL	1 mile	0	0
State/Tribal Equivalent CERCLIS	0.5 mile	0	0
State/Tribal Landfill/SWD	0.5 mile	0	0
State/Tribal LUST	0.5 mile	0	0
State/Tribal RUST	On or Adjoining	0	0
State/Tribal Institutional/Engineering Control	On site	0	0
State/Tribal Voluntary Cleanup Sites	0.5 mile	0	0
State/Tribal Brownfields Sites	0.5 mile	0	0
Database Provider:	Environmental Database Resources, Inc.		
Attachments:	Standard and Regulatory Record documents are provided in Appendix D .		

EDR did not list any environmental concerns within the ASTM minimum search distance for the subject property.

3.1.2 Additional Environmental Record Sources

EDR also provides additional information from other EDR-proprietary and non-proprietary sources not specifically required by ASTM 1527-13, but may be relevant in determining the presence of recognized environmental conditions. Examples include typical higher risk sites such as historical drycleaners, automobile service stations, manufactured gas plants, landfills, emergency releases, and many others. ASTM does not specify search distances for these databases; therefore, the inclusion of listed sites below is at the discretion of the Environmental Professional. No such properties were identified in these databases.

3.1.3 Other Environmental Records Sources

Title:	Standard Air Permit for LSU #1-26	Source:	LDEQ EDMS	Date:	4/05/2004
<p>According to the EDR report the site received an unspecified State Permit (permit number 2160-00081-00) for air emissions on February 7, 1997. The facility is listed as a Minor Source/Small Source Moderator, receiving a standard permit effective April 5, 2004.</p> <p>An Agency Interest (AI) number was provided by the database report. PPM researched the AI number on LDEQ Electronic Document Management System (EDMS). The database indicated that the gas well is registered to Devon Energy Production Company, LP. A Standard Oil and Gas Air Permit was issued to Devon Energy Production Company, LP in connection to the operation of the gas well on the subject property.</p>					
Attachments:	Other Environmental Record Documentation is provided in Appendix F .				

3.2 PHYSICAL SETTING SOURCES

Title:	Calhoun Quadrangle	Source:	USGS	Date:	1994
Title:	GeoCheck® Physical Setting Source Addendum	Source:	EDR	Date:	2015
Attachments:	Physical Setting Documentation is provided in Appendix F .				

The USGS map provides that the subject property is located in a rural area of Calhoun, Louisiana in an area that slopes generally toward the east. This map lists the property as North Louisiana Experimental Station. GeoCheck ® indicates that the subject property is located at an elevation of 174 feet above sea level (MSL). The site is reportedly underlain by Savannah fine sandy loam, which has slow infiltration rates and drains moderately well. The site is anticipated to have a high water table; GeoCheck ® estimates the depth to groundwater to be 3 to 6 feet below ground surface (BGS).

In the absence of area-specific information such as PPM's specialized knowledge or groundwater data obtained from document review, PPM assumes that the groundwater flow direction in the vicinity of the property mimics the topographical gradient indicated by USGS topographic maps. Based on this map as confirmed by GeoCheck ®, the groundwater flow direction from the property is interpreted to be toward the east.

3.3 HISTORICAL USE INFORMATION

AERIAL PHOTOGRAPHS		
Year (Source)	Comments	
1942 (ASCS)	Property	The subject property appears to be a mixture of cleared and wooded developed agricultural land. Structures are visible along the northern edge of US Highway 80. Roadways are visible branching from US Highway 80 along the western portion on the subject property. Several structures are visible on the south central portion of the property. A small pond is visible on the northwestern portion of the property. Due to the small scale of the photo, it is difficult to ascertain potential development and number of structures within the region.
	Surrounding	Surrounding properties to the west and south appear to be developed for agriculture. Residential development is apparent on the southwestern adjoining property. Properties to the north and east appear to be wooded and undeveloped. Kansas City Southern Railroad borders the subject property to the south.
1951 (ASCS)	Property	The subject property appears similar to the 1942 aerial photograph, with the exception of two additional structures south of US Highway 80 along the western roadway.
	Surrounding	All adjoining properties appear similar to the 1942 aerial photograph.

1967 (ASCS)	Property	The subject property appears to be predominantly cleared for agricultural development. Five structures are visible along the western edge of the subject property, north of US Highway 80. Additional structures and development is apparent along the center of the property. Vegetation surrounding the northern pond has been cleared and the shoreline has expanded to the south. A second pond is visible along the southern boundary.
	Surrounding	Interstate 20 is visible along the northern boundary of the subject property. All adjoining properties appear similar to the 1951 aerial photograph, with the exception of increased forestation on undeveloped land to the north, east, and south.
1976 (USGS)	Property	Additional development is apparent south of US Highway 80 along the western border. Two small pools are visible at the northwestern corner of the subject property. Two additional small pools are visible at the center of the property, north of US Highway 80.
	Surrounding	All adjoining properties appear similar to the 1967 aerial photograph.
1983 (USGS)	Property	Subject property appears similar to the 1976 aerial photograph. Due to low photograph quality and small scale, it is difficult to ascertain potential development within the region.
	Surrounding	Due to low photograph quality and small scale, it is difficult to ascertain potential development within the region.
1998 (LOSCO)	Property	Development along the eastern portion of the subject property, north of US Highway 80, appears to be a gas well and storage tank along a roadway running north from the highway. Pools at the northwestern corner of the subject property are no longer visible. Several structures appear to have been demolished, leaving foundations. Additional forest growth is visible on the eastern portion of the subject property.
	Surrounding	All adjoining properties appear similar to the 1976 aerial photograph, with the exception of residential development on the adjoining property to the southwest.
2004 (USDA)	Property	Six structures and the four small ponds at the center of the property, north of US Highway 80, have been removed. Three structures along the western border have been removed. Four structures on the western portion of the property, adjoin the northern edge of US Highway 80 have been removed.
	Surrounding	Residential development is apparent on northwestern adjoining property. Further to the west Calhoun Middle school is visible north of US Highway 80. Adjoining properties appear similar to aerial photograph from 1998.
2013 (USDA)	Property	One structure on the northeastern portion of the property has been removed. One structure from the southwestern border of the property. Property appears as it does currently.
	Surrounding	Residential development is visible on the adjoining property to the south. Continued residential development at Curry Creek Subdivision is visible to the west.

CITY DIRECTORIES		
Year (Source)	Comments	
1998 (Polk's City Directory)	Property	<u>Address:</u> 321 US Highway 80 E- Calhoun Research Station of Louisiana State
	Surrounding	<u>US Highway 80</u> Listings of interest: (298)- Residence (301)- Residence (539)- Residence :
1999 (Polk's City Directory)	Property	<u>Address:</u> 321 US Highway 80 E- Calhoun Research Station of Louisiana State (361)- Residence (365)- Residence
	Surrounding	<u>US Highway 80</u> Listings of interest: (296)- Residence (298)- Residence (539)- Residence
2004 (Polk's City Directory)	Property	<u>Address:</u> 321 US Highway 80 E- Calhoun Research Station (361)- Residence (505)- Louisiana State University Extension
	Surrounding	<u>US Highway 80</u> Listings of interest: (296)- Residence (298)- Residence (539)- Residence <u>Sawmill Road</u> Listings of interest: (114)- Residence (156)- Residence
2009 (Polk's City Directory)	Property	<u>Address:</u> 321 US Highway 80 E- Calhoun Research Station (365)-Residence
	Surrounding	<u>US Highway 80 E</u> Listings of interest: (296)- Residence (539)- Residence <u>Sawmill Road</u> Listings of interest: (156)- Residence
2014	Property	<u>Address:</u> Not Listed

(Polk's City Directory)	Surrounding	<u>US Highway 80 E</u>
		Listings of interest: (296)- Residence (298)- Residence <u>Sawmill Road</u> Listings of interest: (114)- Residence (156)- Residence

FIRE INSURANCE MAPS
Fire insurance maps were not available for the subject area.

USGS TOPOGRAPHIC MAPS		
Year (Source)	Comments	
1994	Property	The subject property is listed as the North Louisiana Experimental Station. One gas well is depicted on the eastern portion of the subject property. The property is shown to be cleared with several structures north and south of US Highway 80.
	Surrounding	The surrounding properties to the north, east and south appears to be undeveloped. The adjoining property to the west appears to be cleared for residential development.

OTHER HISTORICAL SOURCES
Other historical sources were not identified for the subject area.

Attachments:	Copies of Historical Records Documentation is provided in Appendix E .
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4.0 SITE RECONNAISSANCE

During the site reconnaissance, PPM visually inspected the grounds and structures (if any) on the property to the extent not obstructed by bodies of water, adjacent buildings, or other obstacles. The objective of the site reconnaissance is to visually and physically observe the property and the adjoining properties for any uses or conditions that may indicate the likelihood of recognized environmental conditions in connection with the property. Due to the size of this property, number of buildings, dense vegetation, etc., the special methodologies were used as discussed in **Section 4.1**. Interior and exterior inspections focused on practices that involve the use, treatment, storage, disposal, generation, or release of hazardous substances or petroleum products. Exterior observations for this list are applied to the property and adjoining properties. Interior observations are limited to the property.

4.1 METHODOLOGY AND LIMITING CONDITIONS

Site reconnaissance does not include invasive or physical inspections of observed releases, such as ground disturbance to determine the thickness of a spill, or opening and inspecting the contents of vaults, manholes, storage tanks, drums, and other containers suspected to contain hazardous substances or petroleum products. Limiting conditions such as potentially unsafe conditions or inaccessible area were evaluated at the discretion of the site inspector as obstacles to the inspection. There were no special methodologies used to inspect the site; however, limiting conditions were encountered due to the size (~330 acres) of the property. PPM was able to observe all cleared portions of the property and was granted access to all buildings located on the site; however, not all wooded portions were observed. PPM attempted a general sweep of the wooded areas and assumed these to be representative of the remaining wooded portions of the property. Findings and opinions outlined further within this report will be subject to these limitations and assumptions.

4.2 SITE USE AND IMPROVEMENTS

CURRENT USE OF PROPERTY	
The subject property is currently a partially cleared and wooded, unoccupied agricultural research facility. Two structures are currently used to house maintenance and lawn care equipment pertaining to the upkeep of the subject property. The remaining structures on the property are currently unused.	
Property Size and Shape:	328.684 acres in an irregular shape.
Describe buildings on site:	
There are a total of 20 free standing structures on the subject property, along with three former pump houses, one water well shed, one weather station shed, and three metal water tanks. Due to the number of structures on the subject property each building has been assigned a reference number, presented in Figure 2 and Figure 3 .	
The site currently contains 6 vacant residences (Buildings 1, 2, 3, 13, 14, the eastern residence) along the north side of US Highway 80 East. Buildings 10 and 11 are the only active structures on site and, currently contain storage, work truck, tractor, and maintenance supplies. Two of the brick structures (Building 12 and the former extension office) functioned as offices, containing bathrooms, book shelves, and empty office rooms. Buildings 4, 8, and 15 are cinderblock structures formerly used as research laboratories, containing pesticides, refrigeration units, and laboratory equipment respectively. Buildings 5 and 6 were used to house trucks and tractors during the sites operation. Building 6 is a wooden frame building located atop a concrete slab with metal siding and sliding doors along the south side. Building 5 is a wooden frame open air structure with metal siding along the east side and a small enclosed wooden sided room containing a restroom and storage area on the western portion of the structure. Building 7 includes a walk-in refrigeration unit with the majority of the remaining space consisting entirely of warehouse storage space. Building 17 and the former bauxite storage building consist almost entirely of warehouse storage space. The former warehouses are metal frame buildings located atop concrete slab. Building 9 functioned as a greenhouse with a glass paneled room on the western half and a cinderblock laboratory on the eastern half. Building 16 was constructed as an open air cattle barn with a wooden frame and concrete floor. Three former wooden pump houses were located adjoining the two irrigation ponds. Three metal water tanks were observed on the property.	

Describe vegetation and landscaping on site:	
The property is a mixed cleared/wooded land. The majority on the western, central, and southwestern sections of the property are cleared with manicured vegetation as groundcover. The majority of northern, eastern, and southeastern sections of the property are thickly wooded. The western extremity of the property, north of US Highway 80 is wooded, showing signs that the trees were planted in rows to facility access for forestry research. Switchgrass was grown to the west of the northern irrigation pond for research purposes. The area immediately surrounding the northern irrigation pond is sparsely wooded. Scattered trees were observed near structures.	
Describe roads, paths, paved areas on site:	
There are seven entrances to the property from US Highway 80 on the northern portion of the property and two entrances from the highway to the southern portion of the property. Five of the northern entrances are concrete. An additional gravel road entrance is noted to the east. Three main gravel paths extend into the northern portion of the property, branching off the main entrance. One gravel path was observed on the southern portion of the land. Paved parking areas were observed north and west of the former extension office, southwest of Building 12, and east of Building 15. The floor of Building 16 and vicinity immediately south of the structure were paved. Six concrete foundations were noted along the pathways.	
Observed Topography and Drainages on site:	
The site is relatively flat, but has a slight downward gradient approaching the northern irrigation pond and Curry Creek to the north.	
Type of Sewage Disposal:	Septic System
Source of Drinking Water:	Municipal
Type of Heating & Cooling system:	HVAC
Adjoining Roads	
North:	Interstate 20
East:	None
South:	US Highway 80 bisects the property.
West:	None
References:	Property features are shown on Figure 2, Site Map, Appendix A.
	Photographs of property are provided in Appendix C.

4.3 USES OF ADJOINING PROPERTIES

General Area Land Use:	Mixed Residential and undeveloped land.
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ADJOINING PROPERTIES (Clockwise from Due North)	
Name:	Wooded Property
Address:	None
Current & Past Uses:	Undeveloped land
Direction:	North
Intervening Street:	Interstate 20

Name:	Wooded Property
Address:	None
Current & Past Uses:	Undeveloped land
Direction:	East
Intervening Street:	None

Name:	LSU owned land
Address:	None
Current & Past Uses:	Undeveloped wooded land
Direction:	East
Intervening Street:	None

Name:	Wooded Property
Address:	None
Current & Past Uses:	Undeveloped land
Direction:	Southeast
Intervening Street:	None

Name:	Residences
Address:	Various
Current & Past Uses:	Residence, undeveloped wooded land
Direction:	South southwest
Intervening Street:	None

Name:	Residences
Address:	Various
Current & Past Uses:	Residence, undeveloped wooded land
Direction:	Southwest
Intervening Street:	None

Name:	Curry Creek Units Number 1 and 2
Address:	Various
Current & Past Uses:	Residence, undeveloped wooded land
Direction:	West
Intervening Street:	None
References:	Adjoining properties are shown on Figure 3, Area Map, Appendix A.

4.4 EXTERIOR OBSERVATIONS

Were any of the following past or present conditions observed or suspected?	Property	Adjoining
	Yes or No	Yes or No
Pits, Ponds, and Lagoons	YES	No
The large northern irrigation pond encompasses approximately five acres of the northwestern portion of the property. The large southern irrigation pond covers approximately two acres along the central portion of the southern boundary. One small drained wastewater treatment pond and one small active wastewater treatment pond were noted along the western boundary of the northwest portion of the subject property. PPM did not observe stressed vegetation or odors surrounding the ponds. Four former pits containing chick litter, bauxite, and demolition debris were located at the center of the subject property.		
Stressed Vegetation	YES	No
PPM noted stressed vegetation in an approximately three feet wide by two feet long patch east of Building 4.		
Stained Soil or Pavement	YES	No
PPM noted stained soil in an approximately three feet wide by two feet long patch east of Building 4.		
Solid Waste Disposal to Property	YES	No
Concrete, wood, and PVC piping was noted south of the northern irrigation pond. Solid waste was observed in the former pits at the center of the subject property.		
Fill of Unknown Origin	No	No
Waste Water	Yes	No
One drained, small wastewater treatment pond and one small active wastewater treatment pond were noted along the western boundary of the northwest portion of the subject property. PPM did not observe stressed vegetation or stained soil surrounding the ponds.		
Wells	YES	No
PPM observed one active four-inch water well north of Building 13 used for irrigation, pumping from a depth of 567 feet in the Sparta aquifer. DNR lists 2 plugged and abandoned water wells, pumping from 558 feet in the Sparta aquifer, on the subject property. One 9,904 foot active natural gas well, drilled in 1959, belonging to Linn Operating, Inc. was observed on the eastern portion of the subject property. Gas piping leading from the well travels to the west across the subject property and under the northern irrigation pond. Two ASTs associated with the well were observed south of the well along the eastern access road.		
Septic Systems	YES	No
Ouachita Parish Department of Health and Hospitals was not aware of any reports of septic systems on the subject property. PPM was informed during the site reconnaissance that a number of tanks exist in connection to the residences and at least one septic tank is connected to the Building 15, the southern laboratory. PPM was unable to locate the existing septic tanks.		
Above and Underground Storage Tanks	YES	No
Two Aboveground Storage Tanks belonging to Linn Operating, Inc. are located on the eastern portion of the subject property. The tanks are operated in association with a compressor on site, feeding into a gas pipeline underneath the subject property. The ASTs were surrounded by an earthen berm. PPM was informed of one former 500-1000-gallon gasoline UST adjacent to Building 6 that was removed in 2008 or 2009.		
Drums (Standard US 55-gallon)	No	No
Other Hazardous Substance/Petroleum Containers	No	No
Other Unidentified Substance Containers	No	No
Hydraulic Lifts and Elevators	No	No
Oil Water Separators	No	No
Chemical or Petroleum Odors	No	No
Pools of Liquid (excluding water)	No	No

Potential PCB Equipment	YES	YES
Eleven pole-mounted transformers were noted on the northern portion of the subject property. Two pole-mounted transformers were noted on the southern portion of the subject property, and several transformers were noted on the western adjoining properties. All transformers appeared to be in good condition, and there was no evidence of leaks associated with any of the transformers.		
Other Environmental Conditions	No	No

4.5 INTERIOR OBSERVATIONS

Were the following past or present conditions observed or suspected on the property?	Yes No
Stains or Corrosion	YES
Minor petroleum staining was noted on the concrete flooring in Buildings 6, 7, 10, 11, and 15. Chemical staining from pesticides was noted on the floors and shelving in Building 4 and on the floor in Building 11. The staining appeared to be limited to concrete flooring and shelving.	
Drains and Sumps	YES
Three drains were observed in the flooring of the laboratory in Building 15, PPM did not note any signs of staining.	
Oil Water Separators	No
Above and Underground Storage Tanks	No
Drums (Standard US 55-gallon)	YES
Three empty 55 gallon drums were noted in Building 11 and the former bauxite storage warehouse.	
Other Hazardous Substance/Petroleum Containers	YES
Herbicide containers were noted in Building 11. Building 4 was used for the storage of Pesticides. Automotive fluid containers and used motor oil containers were noted in Building 11. Paint cans and 5-gallon paint buckets were observed on shelving and floor in Building 6.	
Other Unidentified Substance Containers	No
Hydraulic Lifts/Elevators	No
Chemical or Petroleum Odors	No
Pools of Liquid (excluding water)	No
Potential PCB Equipment	No

4.6 OTHER OBSERVATIONS

Recent land leveling was noted at the center of the subject property. Formerly four pits were located in this area filled with chicken waste and used to test potential control methods to reduce phosphorus leachability from agricultural fields. In a letter to LDEQ, the LSU AgCenter noted the serious non-point source pollution that agricultural leachability poses. LSU stated that bio solids, such as chick litter, contain substantially high phosphorous levels that are very susceptible to surface runoff from fields, leading to eutrophication of nearby watersheds. In an attempt to reduce leaching the AgCenter obtained four cubic yards of bauxite residue that was added to the high phosphorus soil to reduce "heavy metal" mobility in the chick litter. PPM was informed that the pits were filled using the rubble from former structures along with site trash.

5.0 INTERVIEWS

PPM conducted interviews when possible with individuals who may have knowledge of the site. The objective of interviews is to obtain information from persons likely to have actual knowledge of current and past uses or conditions of the property, adjoining properties, and surrounding area that may indicate the likelihood of recognized environmental conditions in connection with the property. The focus and quality of information is highly variable with each type of contact and individual. The persons interviewed were asked to be as specific as reasonably feasible in answering questions. Interview information is provided below:

INTERVIEW WITH CURRENT OWNER OR REPRESENTATIVE	
Interviewer:	Jordan Harper
Date(s) Attempted:	March 26, 2015
Name of Contact:	Brad Cammack
Title/Affiliation:	Ouachita Parish Police Jury
Contact Information:	318-327-1340
Comments: Mr. Cammack informed PPM that he only recently became aware of the subject property when the Police Jury acquired the subject property from LSU in November 2014. He was not aware of any hazardous spills or environmental dangers on the subject property. Mr. Cammack explained that the Police Jury first acquired the subject property in 1888, donating the land to LSU with stipulation that it return to the parish should LSU abandon the site.	

INTERVIEW WITH PAST OWNER	
Interviewer:	Jordan Harper
Date(s) Attempted:	March 23, 2014
Name of Contact:	Dr. Pat Colyer
Title/Affiliation:	Regional Director LSU AgCenter
Contact Information:	318-741-7430
Comments: Dr. Colyer informed PPM that he supervised the operation of the LSU AgCenter Calhoun research facility starting in 2011 and coordinated LSU's departure from the station. Dr. Colyer explained that he was fairly familiar with the operation of the facility under his tenure, but could not attest to the facilities use before 2011. The research facility was operated by two scientists who spent their time in the laboratory. Dr. Colyer stated that he did not know the state of the septic system, the use of the pesticide storage building, the condition of the former UST, or the operation of the southern laboratory. Under his supervision the site used branded herbicides to control weed growth on site and removed the former chicken houses at the center of the property. He explained that the radiation sign on Building 8 was for a spectrographer, a standard piece of laboratory equipment, and not related to an x-ray device. Dr. Colyer stated that there is no permanent risks associate with this device, stating that the radiation was both low and unable to penetrate the walls. LSU moved the spectrographer off site in September 2014. He claimed no knowledge of hazardous chemical or petroleum spills at the site.	

INTERVIEW WITH KEY SITE MANAGER	
Interviewer:	Jordan Harper
Date(s) Attempted:	March 16, 2015 / March 23, 2015
Name of Contact:	Chris Thomas
Title/Affiliation:	Groundskeeper
Contact Information:	318-557-5558
<p>Comments: Mr. Thomas informed PPM that he has worked at the LSU Agricultural Research Station for 29 years as a groundskeeper and maintenance man. Mr. Thomas accompanied PPM on the site reconnaissance, describing site use and recent history. He notified PPM of a former gasoline UST adjacent to Building 10 that had been removed in 2009 without incident. Mr. Thomas provided contact information for Dr. Pat Colyer, the Regional Director for the LSU AgCenter. He identified a leaking, parked forklift as the cause of the petroleum staining and stressed vegetation east of Building 4. When asked about the former pits at the center of the property he explained that they had been filled in over time with the demolished remains of several structures from the subject property, describing the fill as trash.</p>	

INTERVIEW WITH OCCUPANTS (MAJOR AND USING HAZ/PET)
Comments: The site is not occupied.

INTERVIEW WITH LOCAL FIRE MARSHALL	
Interviewer:	Jordan Harper
Date(s) Attempted:	March 23, 2015
Name of Contact:	Tina Carlyle
Title/Affiliation:	Ouachita Parish Fire Prevention
Contact Information:	318-322-4174
<p>Comments: Ms. Carlyle informed PPM that she works for the Ouachita Fire Prevention station. She was unable to find any references to environmental hazards or relevant emergency responses to the former LSU Research facility.</p>	

INTERVIEW WITH LOCAL HEALTH DEPARTMENT	
Interviewer:	Jordan Harper
Date(s) Attempted:	March 23, 2015
Name of Contact:	Greg Hill
Title/Affiliation:	Louisiana Department of Health and Hospitals- Environmental Health Specialist
Contact Information:	318-361-7213
<p>Comments: Mr. Hill informed PPM that the LSU facility did not have any registered septic tanks on the property. Mr. Hill explained that the AgCenter did not report any septic system use during its operation. According to Mr. Hill the sewage effluent for Curry Creek Subdivision, adjacent to the west, does flow into Curry Creek to the north of the subject property. He is not aware of any reports associated with this facility.</p>	

INTERVIEW WITH STATE REGULATORY AGENCY
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Interviewer:	Jordan Harper
Date(s) Attempted:	March 18, 2015/ March 23, 2015
Name of Contact:	Mark Juneau
Title/Affiliation:	LDEQ- UST Division
Contact Information:	318-362-5445
Comments: Mr. Juneau was unable to locate any references to a UST on the subject property. He informed PPM that as a farm, a tank below 1,100 gallons is exempt from registration and removal of such a tank without incident would not be reported to the LDEQ office.	

INTERVIEW WITH STATE REGULATORY AGENCY	
Interviewer:	Jordan Harper
Date(s) Attempted:	March 31, 2015
Name of Contact:	Steve Archibald
Title/Affiliation:	LDEQ- Remediation Division
Contact Information:	318-362-3048
Comments: Mr. Archibald was unfamiliar with the subject property and the bauxite experiment. He informed PPM that he did not advise testing the pits for heavy metals or phosphorous. Mr. Archibald suggested that heavy metal concentrations would not be high enough to detect in chick litter. He also stated that phosphorous concentrations in soils are not regulated and that bauxite residue does not pose a risk to the surrounding environment in low concentrations.	

INTERVIEW WITH STATE REGULATORY AGENCY	
Interviewer:	Jordan Harper
Date(s) Attempted:	March 23, 2015
Name of Contact:	Jim York
Title/Affiliation:	DNR Office of Conservation District Manager
Contact Information:	318-362-3111
Comments: Mr. York informed PPM that the gas well on the subject property was purchased in 2014 from Devon Energy Production Company, is active, and is currently operated by Linn Operating, Inc. Mr. York explained that the responsibility for an active or abandoned well rests on the company registered as the well operator. If a problem were to arise in association with the wells on the subject property the land owner would not be held responsible.	

INTERVIEW WITH NEIGHBOR FOR ABANDONED PROPERTIES
Comments: There were no abandoned properties in relation to this assessment.

INTERVIEWS WITH OTHERS
No other interviews were made during the course of this site assessment.

6.0 EVALUATION

6.1 FINDINGS AND OPINIONS

Relevant information gathered from user provided information, records reviews, observations, and interviews was evaluated together to provide a professional opinion as to whether any of the suspect activities identified represent recognized environmental conditions, controlled recognized environmental conditions, historical recognized environmental conditions, or de minimis conditions associated with the property. The findings and opinions of this assessment are as follows:

- **Historical and current use of the subject property.** According to the LSU AgCenter website, “the Calhoun Research Station, established in 1888, is the oldest facility of its kind in the state. Research has focused on dairy, peaches and watermelons. Today, the focus is on wood products and helping the forestry industry. A goal of the station’s research is to waste no wood. Scientists are working to extract chemicals from treated wood and recycle both for beneficial use. Other research includes uses for low-quality wood products while improving the environment.” Historical aerial photographs indicate the existence of at least 50 structures on the subject property since 1942. Site reconnaissance shows 20 current structures on the subject property. The facility has been unoccupied since LSU vacated the research facility in November 2014, after a funding cut. Potential concerns with the current uses of the property include the following:
 - Pits east of Former Bauxite Storage Building- Four pits were constructed east of the Former Bauxite Storage Building to hold chick litter associated with an agricultural runoff mitigation experiment. The pits were filled with bio solids including chick litter in an attempt to simulate hazards associated with production farms. In a 2006 letter to the LDEQ these pits were described as a non-point source pollution problem containing high phosphorous levels very susceptible to surface runoff that leads to eutrophication of nearby watersheds. Four cubic yards of bauxite residue were requested to reduce mobility of “heavy metals” from the site. Mr. Thomas informed PPM that these pits were later filled in using demolition debris and trash from the site. In a 2007 inspection asbestos was found in the buildings on the site.
 - o Aerial photographs show the pits were buried between 1998 and 2014. Approximately 30 historical buildings are no longer present on the site. If these building were the source of the demolition debris used in filling the pits, then hazardous waste materials in the form of asbestos have

been buried on site. The suspected disposal of asbestos containing demolition debris on the site is considered to be a recognized environmental condition.

- Steve Archibald with LDEQ told PPM that he believes testing associated with heavy metal and phosphorous risks would be unnecessary. Mr. Archibald informed PPM that he can foresee no environmental hazards associated with the phosphorus levels, heavy metal concentrations (which is a reference that was not defined by LSU in their correspondence and may be a euphemism for phosphorus), or bauxite use in the pits. Based on the lack of interest from the state regulatory agency, the phosphorus and bauxite that may still be present in the pits is not regarded as a recognized environmental condition.
- Former Bauxite Storage Building. Historical documents indicate that the northeastern warehouse was used to house bauxite residue. A letter from the LDEQ granted the LSU AgCenter limited use of four cubic yards of bauxite residue. PPM observed red staining on the floor of the structure along with two empty 55-gallons drums inside the structure. The building itself has a concrete base at the foot of the walls and a metal frame with a metal roof. Two empty 55-gallon drums were located on the concrete floor in the former bauxite storage building at the center of the subject property. According to Mr. Thomas the drums previously held bauxite residue. Due to the solid construction of the building and the fact that the bauxite residue was stored only in the building during its use as a research facility and is not listed as a regulated hazardous substance, the Former Bauxite Storage Building does not appear to represent a recognized environmental condition
- Hazardous Chemicals- During interviews it was revealed that pesticides, herbicides, and other chemicals were stored and used on the site during the facility's operational history. Although the chemicals were reportedly stored and disposed of properly, spills and leaks may have occurred on the property impacting the soil and groundwater on the subject or adjoining properties. These interviews provided only limited information about chemical use practices during the recent past when environmental regulations were in place. There is no information available for the facility before regulations were enacted (approximately the mid-1970s back to 1888). It is reasonable to assume that a university affiliated agricultural experimental station would have been testing pesticides, herbicides, and other farm related chemicals that were considered cutting edge for their times; therefore, it is likely that pesticides like Aldrin, chlordane, Dieldrin, and DDT that were considered wonder chemicals

in the 1940s were used at the site before they were banned by the USEPA starting in the 1970s. These chemicals were banned because they were hazardous to human health and the environment and were very persistent in the environment. Likewise, proper use and disposal practices of today would be different from what would have been considered acceptable before regulations. For example, sink drains, which in this case could lead to the onsite septic tanks, are known to have been popular and convenient locations for chemical disposal in pre-regulation laboratories and other interior usage areas. At least three floor drains were observed in the laboratory area of Building 15 on the southern portion of the subject property. The drains were located in a slight depression that funneled liquids from the immediate area to the drains. Due to the proximity of the drains to the areas where hazardous chemical handling occurred and because these chemicals may have been released unimpeded into the drains, the drains could have carried hazardous materials offsite or impacted the subsurface or stormwater. The groundskeeper informed PPM during the site reconnaissance that the drains in the laboratory of Building 15 led to a septic tank on the subject property. One storm drain located west of Building 4 received storm water and runoff from the surrounding area including the pesticide storage building where hazardous chemicals may have been released unimpeded into the storm drain. The storm drain conveys water into the northern irrigation pond. Although there was no evidence of staining or odors from the drain indicative of a chemical impact, the potential for historical or current contamination of stormwater exists. Together, it is very possible that high concentrations of these highly persistent hazardous substances may still be found in former storage, mixing, and application areas, in septic tank leach fields, and in the ponds and pits that may have received runoff from these areas. It is possible that the storage and mixing areas remained consistent through time, but it is also likely that such areas moved all over the site in its 100-plus year history. The likely use and release of hazardous agricultural chemicals on the subject property by its operations from 1888 to recent times represents a recognized environmental condition.

- Buckets of used oil, paint buckets, paint cans, automotive fluid containers, empty drum, and minor staining. PPM observed four, 5-gallon buckets of used oil and several smaller containers of automotive fluids in Building 10. Three 5-gallon buckets and five paint cans were observed on the floor and shelving in Building 6. These containers were all located atop a concrete slab in good condition. Minimal petroleum staining was noted on the concrete flooring in Buildings 6, 7, 10, 11, and 15. Mr. Thomas informed PPM that the staining

beneath the herbicide containers on the floor in Building 11, originated with a former leaking battery. The battery acid staining in building 11 appeared to be limited to concrete flooring. The area under the shelving and surrounding flooring beneath the paint canisters appeared to be in good condition with no evidence of leaking or staining. One empty 55-gallon water drum was observed in Building 11. Potential future releases from canisters of this capacity would be considered *de minimis*. PPM considered the staining to be *de minimis*.

- Stained soil/stressed vegetation- An area of stained soil and stressed vegetation measuring approximately three feet wide by two feet long is located east of Building 4. It appears the staining is a result of leakage from a farm vehicle that remained on the site. Mr. Thomas informed PPM in an interview that a forklift was parked at that location for several years that had a habit of leaking fluid. Due to the size and limited source of the area impacted, the stressed vegetation east of Building 4 appears to represent a *de minimis* condition.
- Former gasoline UST. One 500-1000 gallon gasoline UST was located adjacent to Building 10 to fuel the farm equipment on the subject property. According to Mr. Thomas, the tank was removed in 2008 or 2009 without incident. Mr. Juneau with the LDEQ UST Division, informed PPM that USTs below 1,100 gallons on farms were exempt from LDEQ registration, and may be removed without testing or LDEQ inspection; and without incident, would not require reporting to the LDEQ. Based on PPM's experience, the only "incident" that inexperienced people are likely to notice is free product in the excavation, but without laboratory analysis of soil and groundwater samples the implied "without incident" does not eliminate the possibility of a release that exceeds regulatory action levels. Although the UST may have been closed in accordance with LDEQ regulations for an exempt farm tank, the lack of closure information does not preclude the possibility that a release of petroleum products to the subsurface has occurred; therefore, the former gasoline UST represents a recognized environmental condition.
- Gas well and gas pipeline. The Department of Natural Resources (DNR) provides a publically accessible database, SONRIS that includes information on well registration and use. SONRIS identified four gas wells located in the eastern portion of the site. The database indicates one triple completion well along a service road and one single completion well to the northeast of the active site. The northeastern well is 9,746 feet deep and produced natural gas between 1960 and 1966, but has been plugged and abandoned since September 20, 1966. The triple completion well was first spudded March 31, 1959, with a measured depth of 9,904 feet, the dual and triple completions were added in

1968, operating until they were plugged and abandoned in 1983. The active well is currently operated by Linn Operating, Inc in the Cotton Valley D sands and pumping natural gas. No oil extraction from the well has been reported since June 2011. Mr. York explained that the responsibility for an active or abandoned well rests on the company registered as the well operator. If a problem were to arise in association with the wells on the subject property the land owner would not be held responsible. Based on the long term historical operation of the wells and the risk associated with transporting natural gas through the property, the gas wells and the gas pipeline on the subject property represent a recognized environmental condition.

- Solid waste. PPM observed demolition debris adjacent to the northern irrigation pond on the subject property. The solid waste consisted of bricks, broken cement, wood, and plastic pieces. The surrounding vegetation appeared to be thriving and solid waste did not appear to consist of petroleum products or hazardous waste materials. The solid waste at the site does not appear to represent a recognized environmental condition.
- Electrical Transformers. Dielectric fluid in some electric transformers contains PCBs. The content of dielectric fluid for the transformers on site is unknown. All onsite transformers appeared to be in good condition, and there was no evidence of leaks associated with any of the transformers. Based on this information, the pole-mounted transformers located on the subject property do not appear to represent a recognized environmental condition.
- **Historical and current surrounding land uses**. According to the historical sources reviewed, the properties adjoining the site appeared to consist of residential and undeveloped wooded property since at least 1942. During site reconnaissance the adjoining properties were observed to consist of the following: residential properties to the west, southwest, and south southwest and undeveloped land to the north, east, and southeast. The historical, undeveloped and residential nature of the surrounding properties is not considered to represent a recognized environmental condition.

6.2 DATA GAPS

A data gap is a lack of information or inability to obtain information despite good faith efforts to gather such information. A data gap is only significant if it affects PPM's ability to identify recognized environmental conditions.

- Southern extremity- PPM was unable to access the southeastern portion of the subject property during site reconnaissance due to the dense vegetation. Due to the long environmental history of the facility, this is considered a significant data gap; therefore, PPM is unable to form an opinion about conditions in this area at this time.
- Septic system. PPM was informed by Mr. Thomas that the site operates on a system of septic tanks in addition to the pools of wastewater on the northwestern portion of the subject property. The Ouachita Parish Department for Health and Hospitals', Environmental Health Specialist, Greg Hill, was unable to locate any documentation as to the nature or presence of these septic tanks. Mr. Hill informed PPM, it is likely that the LSU facility never registered the septic system and would not have reported any issues pertaining to their use or upkeep. Based on the unknown state of the onsite septic system and possibility of hazardous substances draining into the septic tanks, this is considered a significant data gap; therefore, PPM is unable to form an opinion at this time.

Data failure is a type of data gap that involves the inability to identify the property use at five-year intervals back to first use or 1940 whichever is earlier. Data failure occurred during this assessment because site use could not be established before 1888 when the LSU Ag Center was first developed. This data gap is not considered significant because it is very likely the site was undeveloped wooded land prior to similar to the surrounding land use from 1942 to the present. Data failure also occurred after 1888 for the following reasons:

- Historical sources were not available at the five-year interval defined by the ASTM standard;
- The oldest aerial photograph available was dated 1942;
- The scale of some aerial photographs created difficulty in discerning site features, specifically structural development on the subject property and adjoining properties;
- There were no fire insurance maps available for the surrounding area;
- City directories did not list the property prior to 1998;
- The previous owner representative (i.e. the Regional Director LSU AgCenter) did not have knowledge of the site prior to 2011;

- The key site manager was a groundskeeper with limited technical knowledge of the past operation and did not have any knowledge of the site prior to 1985;
- The current property owner did not have knowledge of the property before 2014; and
- There were no other standard historical sources likely to provide useful information.

Consequently, PPM was unable to obtain any detailed operational information prior to 2011 for a facility that had operated since 1888. Since the facility made use of hazardous substances and petroleum product after 2011, it is considered very likely probable that the LSU AgCenter operation also involved hazardous substances and petroleum products from 1888 to 2011. It is also considered likely that as an agricultural research and development facility it would have been using pesticides and herbicides that were considered cutting edge for their times and would have followed the use and disposal practices acceptable for those times. Since PPM has general knowledge of these types of practices, despite these data gaps PPM was able to make a reasonable conclusion regarding recognized environmental conditions.

6.3 ADDITIONAL INVESTIGATION OPINION

In accordance with Practice E1527-13, PPM has provided an opinion regarding additional appropriate investigation, if any, in the circumstance when greater certainty is required regarding the identification of recognized environmental conditions. This opinion does not render the assessment incomplete and is not intended to constitute a recommendation for a Phase II ESA or other assessment activities. Recommendations are not required by this practice and will only be provided at the request of the user.

It is PPM's professional opinion that additional investigation is warranted.

Based on the findings PPM recommends a Phase II ESA be conducted to address the recognized environmental conditions identified in this report.

6.4 CONCLUSIONS

PPM has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527 of Calhoun Technology Park, the property. Any exceptions to, or deletions from, this practice are described in **Sections 4.1** and **6.3** of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the property except for the following:

- **Historical and current use of the subject property.** According to the LSU AgCenter website, “the Calhoun Research Station, established in 1888, is the oldest facility of its kind in the state. Research has focused on dairy, peaches and watermelons. Today, the focus is on wood products and helping the forestry industry. A goal of the station’s research is to waste no wood. Scientists are working to extract chemicals from treated wood and recycle both for beneficial use. Other research includes uses for low-quality wood products while improving the environment.” Historical aerial photographs indicate the existence of at least 50 structures on the subject property since 1942. Site reconnaissance shows 20 current structures on the subject property. The facility has been unoccupied since LSU vacated the research facility in November 2014, after a funding cut. Potential concerns with the current uses of the property include the following:
 - Pits east of Former Bauxite Storage Building- Four pits were constructed east of the Former Bauxite Storage Building to hold chick litter associated with an agricultural runoff mitigation experiment. The pits were filled with bio solids including chick litter in an attempt to simulate hazards associated with production farms. In a 2006 letter to the LDEQ these pits were described as a non-point source pollution problem containing high phosphorous levels very susceptible to surface runoff that leads to eutrophication of nearby watersheds. Four cubic yards of bauxite residue were requested to reduce mobility of “heavy metals” from the site. Mr. Thomas informed PPM that these pits were later filled in using demolition debris and trash from the site. In a 2007 inspection asbestos was found in the buildings on the site.
 - o Aerial photographs show the pits were buried between 1998 and 2014. Approximately 30 historical buildings are no longer present on the site. If these building were the source of the demolition debris used in filling the pits, then hazardous waste materials in the form of asbestos have been buried on site. The suspected disposal of asbestos containing demolition debris on the site is considered to be a recognized environmental condition.
 - Hazardous Chemicals - During interviews it was revealed that pesticides, herbicides, and other chemicals were stored and used on the site during the facility’s operational history. Although the chemicals were reportedly stored and disposed of properly, spills and leaks may have occurred on the property impacting the soil and groundwater on the subject or adjoining properties. These interviews provided only limited information about chemical use practices during the recent past when environmental regulations were in place. There is no information available for the facility before regulations were

enacted (approximately the mid-1970s back to 1888). It is reasonable to assume that a university affiliated agricultural experimental station would have been testing pesticides, herbicides, and other farm related chemicals that were considered cutting edge for their times; therefore, it is likely that pesticides like Aldrin, chlordane, Dieldrin, and DDT that were considered wonder chemicals in the 1940s were used at the site before they were banned by the USEPA starting in the 1970s. These chemicals were banned because they were hazardous to human health and the environment and were very persistent in the environment. Likewise, proper use and disposal practices of today would be different from what would have been considered acceptable before regulations. For example, sink drains, which in this case could lead to the onsite septic tanks, are known to have been popular and convenient locations for chemical disposal in pre-regulation laboratories and other interior usage areas. At least three floor drains were observed in the laboratory area of Building 15 on the southern portion of the subject property. The drains were located in a slight depression that funneled liquids from the immediate area to the drains. Due to the proximity of the drains to the areas where hazardous chemical handling occurred and because these chemicals may have been released unimpeded into the drains, the drains could have carried hazardous materials offsite or impacted the subsurface or stormwater. The groundskeeper informed PPM during the site reconnaissance that the drains in the laboratory of Building 15 led to a septic tank on the subject property. One storm drain located west of Building 4 received storm water and runoff from the surrounding area including the pesticide storage building where hazardous chemicals may have been released unimpeded into the storm drain. The storm drain conveys water into the northern irrigation pond. Although there was no evidence of staining or odors from the drain indicative of a chemical impact, the potential for historical or current contamination of stormwater exists. Together, it is very possible that high concentrations of these highly persistent hazardous substances may still be found in former storage, mixing, and application areas, in septic tank leach fields, and in the ponds and pits that may have received runoff from these areas. It is possible that the storage and mixing areas remained consistent through time, but it is also likely that such areas moved all over the site in its 100-plus year history. The likely use and release of hazardous agricultural chemicals on the subject property by its operations from 1888 to recent times represents a recognized environmental condition.

- Former gasoline UST. One 500-1000 gallon gasoline UST was located adjacent to Building 10 to fuel the farm equipment on the subject property. According to

Mr. Thomas, the tank was removed in 2008 or 2009 without incident. Mr. Juneau, with the LDEQ UST Division, informed PPM that USTs below 1,100 gallons on farms were exempt from LDEQ registration, and may be removed without testing or LDEQ inspection; and without incident, would not require reporting to the LDEQ. Based on PPM's experience, the only "incident" that inexperienced people are likely to notice is free product in the excavation, but without laboratory analysis of soil and groundwater samples the implied "without incident" does not eliminate the possibility of a release that exceeds regulatory action levels. Although the UST may have been closed in accordance with LDEQ regulations for an exempt farm tank, the lack of closure information does not preclude the possibility that a release of petroleum products to the subsurface has occurred; therefore, the former gasoline UST represents a recognized environmental condition.

- Gas well and gas pipeline. The Department of Natural Resources (DNR) provides a publically accessible database, SONRIS, which includes information on well registration and use. SONRIS identified four gas wells located in the eastern portion of the site. The database indicates one triple completion well along a service road and one single completion well to the northeast of the active site. The northeastern well is 9,746 feet deep and produced natural gas between 1960 and 1966, but has been plugged and abandoned since September 20, 1966. The triple completion well was first spudded March 31, 1959, with a measured depth of 9,904 feet, the dual and triple completions were added in 1968, operating until they were plugged and abandoned in 1983. The active well is currently operated by Linn Operating, Inc in the Cotton Valley D sands and pumping natural gas. No oil extraction from the well has been reported since June 2011. Mr. York explained that the responsibility for an active or abandoned well rests on the company registered as the well operator. If a problem were to arise in association with the wells on the subject property the land owner would not be held responsible. Based on the long term historical operation of the wells and the risk associated with transporting natural gas through the property, the gas wells and the gas pipeline on the subject property represent a recognized environmental condition.

The following significant data gap was also encountered by this assessment:

- The earliest available records for the subject property date back to 1942. At that time the land was operating as a LSU AgCenter research facility. PPM was unable to determine site use or research procedures prior to 1942. It is possible that this land use may have involved hazardous substances or petroleum products. Since this land use cannot be determined from the available historical

resources, our inability to make reasonable conclusions is considered a significant data gap.

- Southern extremity- PPM was unable to access the southeastern portion of the subject property during site reconnaissance due to the dense vegetation. Due to the long environmental history of the facility, this is considered a significant data gap; therefore, PPM is unable to form an opinion about conditions in this area at this time.
- Septic system. PPM was informed by Mr. Thomas that the site operates on a system of septic tanks in addition to the pools of waste water on the northwestern portion of the subject property. The Ouachita Parish Department for Health and Hospitals' Environmental Health Specialist Greg Hill was unable to locate any documentation as to the nature or presence of these septic tanks. Mr. Hill informed PPM, it is likely that the LSU facility never registered the septic system and would not have reported any issues pertaining to their use or upkeep. Based on the unknown state of the onsite septic system and possibility of hazardous substances draining into the septic tanks, this is considered a significant data gap; therefore, PPM is unable to form an opinion at this time.

6.5 ENVIRONMENTAL PROFESSIONAL STATEMENT

I, Gregory P. Stover, declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR § 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312. My signature is provided on the cover of this report. My environmental professional qualifications are provided in **Appendix G** of this report.

7.0 NON-SCOPE SERVICES

PPM did not provide any additional services outside the scope of Practice E1527-13.

APPENDIX C – SITE PHOTOGRAPHS

**PHOTOGRAPHS
SOUTH TRACT
US HIGHWAY 80 EAST
CALHOUN, LOUISIANA**



PHOTO 1
Lab area in Building 1.



PHOTO 2
Lab area in Building 1.



PHOTO 3
Lab Area in building 1 with
floor drains visible.

**PPM PROJECT NO.
11452003.ESA**

**PHOTOGRAPHS
SOUTH TRACT
US HIGHWAY 80 EAST
CALHOUN, LOUISIANA**



PHOTO 4
Lab area in Building 1 with
floor drains visible.

PHOTO 5
Foundations for former build-
ings near northwest corner of
the subject property.



PHOTO 6
Buildings on subject
property near the north-
west corner of the sub-
ject property.

**PPM PROJECT NO.
11452003.ESA**

**PHOTOGRAPHS
SOUTH TRACT
US HIGHWAY 80 EAST
CALHOUN, LOUISIANA**



PHOTO 4
Stalls in Building on subject
property.



PHOTO 5
Storage in Building 3 on the
subject property.



PHOTO 6
Subject property facing
east.

**PPM PROJECT NO.
11452003.ESA**

**PHOTOGRAPHS
SOUTH TRACT
US HIGHWAY 80 EAST
CALHOUN, LOUISIANA**



PHOTO 4

Subject property facing north with North Tract visible on adjoining property across Highway 80 East.

PHOTO 5

Pond on southern portion of the subject property with pole mounted electrical transformer and pump house visible.



PHOTO 6

Mature trees on eastern portion of the subject property.

**PPM PROJECT NO.
11452003.ESA**

**PHOTOGRAPHS
SOUTH TRACT
US HIGHWAY 80 EAST
CALHOUN, LOUISIANA**



PHOTO 4
Mature trees on southeastern portion of the subject property.



PHOTO 5
Mature trees near eastern boundary of the subject property.

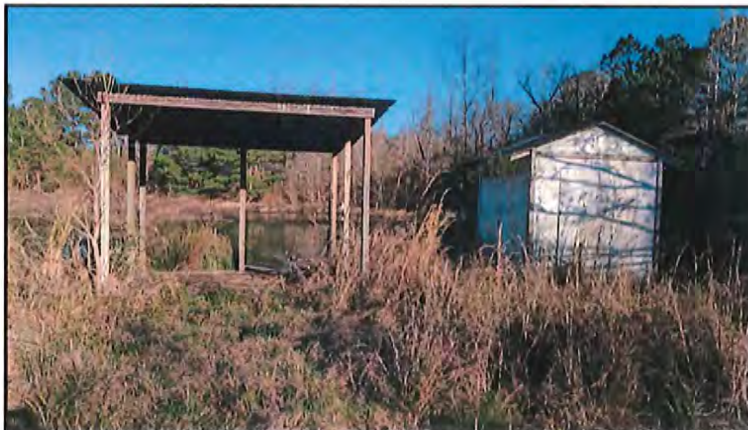


PHOTO 6
Pump house near pond on southern portion of the subject property.

**PPM PROJECT NO.
11452003.ESA**

**PHOTOGRAPHS
SOUTH TRACT
US HIGHWAY 80 EAST
CALHOUN, LOUISIANA**



PHOTO 4
Southwestern portion of the
subject property.

PHOTO 5
Brush along southern bound-
ary of the subject property
with railroad right-of-way visi-
ble on the adjoining property.

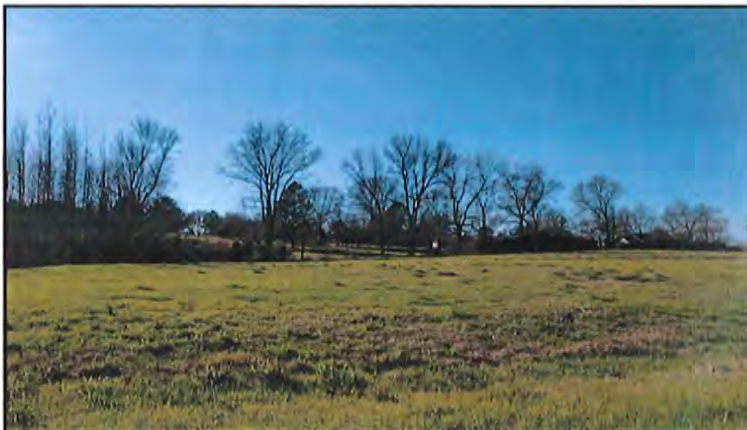


PHOTO 6
Residences visible on
adjoining property to
the west.

**PPM PROJECT NO.
11452003.ESA**

APPENDIX D – REGULATORY RESEARCH DOCUMENTATION

South Tract

321 US Highway 80 East
Calhoun, LA 71225

Inquiry Number: 4854246.2s
February 14, 2017

The EDR Radius Map™ Report with GeoCheck®

Prepared using the EDR FieldCheck® System



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of the environmental records was conducted by Environmental Data Resources, Inc. (EDR). PPM CONSULTANTS INC. used the EDR FieldCheck System to review and/or revise the results of this search, based on independent data verification by PPM CONSULTANTS INC.. The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

321 US HIGHWAY 80 EAST
CALHOUN, LA 71225

COORDINATES

Latitude (North):	32.5111110 - 32° 30' 39.99"
Longitude (West):	92.3444440 - 92° 20' 39.99"
Universal Transverse Mercator:	Zone 15
UTM X (Meters):	561576.7
UTM Y (Meters):	3597090.8
Elevation:	146 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5630395 CALHOUN, LA
Version Date:	2012
South Map:	5630393 CADEVILLE, LA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20150501
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
321 US HIGHWAY 80 EAST
CALHOUN, LA 71225

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	QUICK STOP GROCERY	HWY 80	UST	Higher	1 ft.

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No sites were identified in following databases.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing
SEMS..... Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-SQG..... RCRA - Small Quantity Generators
RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System
US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

EXECUTIVE SUMMARY

State- and tribal - equivalent CERCLIS

SHWS..... Potential and Confirmed Sites List

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... Landfill List
DEBRIS..... LDEQ Approved Debris Sites
HIST DEBRIS..... LDEQ Approved Debris Sites

State and tribal leaking storage tank lists

LUST..... Leaking Underground Storage Tanks
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
HIST LUST..... Underground Storage Tank Case History Incidents

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

AUL..... Conveyance Notice Listing

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing
VCP..... Voluntary Remediation Program Sites

State and tribal Brownfields sites

BROWNFIELDS..... Brownfields Inventory

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY..... Recycling Directory
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
ODI..... Open Dump Inventory
IHS OPEN DUMPS..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL..... Delisted National Clandestine Laboratory Register
CDL..... Clandestine Drug Lab
DEL SHWS..... Deleted Potential & Confirmed Sites

EXECUTIVE SUMMARY

US CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS..... Environmental Liens
LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
SPILLS..... Emergency Response Section Incidents
SPILLS 90..... SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR..... RCRA - Non Generators / No Longer Regulated
FUDS..... Formerly Used Defense Sites
DOD..... Department of Defense Sites
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR..... Financial Assurance Information
EPA WATCH LIST..... EPA WATCH LIST
2020 COR ACTION..... 2020 Corrective Action Program List
TSCA..... Toxic Substances Control Act
TRIS..... Toxic Chemical Release Inventory System
SSTS..... Section 7 Tracking Systems
ROD..... Records Of Decision
RMP..... Risk Management Plans
RAATS..... RCRA Administrative Action Tracking System
PRP..... Potentially Responsible Parties
PADS..... PCB Activity Database System
ICIS..... Integrated Compliance Information System
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS..... Material Licensing Tracking System
COAL ASH DOE..... Steam-Electric Plant Operation Data
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER..... PCB Transformer Registration Database
RADINFO..... Radiation Information Database
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS..... Incident and Accident Data
CONSENT..... Superfund (CERCLA) Consent Decrees
INDIAN RESERV..... Indian Reservations
FUSRAP..... Formerly Utilized Sites Remedial Action Program
UMTRA..... Uranium Mill Tailings Sites
LEAD SMELTERS..... Lead Smelter Sites
US AIRS..... Aerometric Information Retrieval System Facility Subsystem
US MINES..... Mines Master Index File
FINDS..... Facility Index System/Facility Registry System
UXO..... Unexploded Ordnance Sites
DOCKET HWC..... Hazardous Waste Compliance Docket Listing
AIRS..... Air Permit List
ASBESTOS..... Asbestos Projects List
COAL ASH..... Coal Ash Disposal Sites
DRYCLEANERS..... Drycleaner Facility Listing
Financial Assurance..... Financial Assurance Information

EXECUTIVE SUMMARY

NPDES.....	LPDES Permits Database
REM.....	Division of Remediation Services Database
UIC.....	Underground Injection Wells Listing
ECHO.....	Enforcement & Compliance History Information
ABANDONED MINES.....	Abandoned Mines
FUELS PROGRAM.....	EPA Fuels Program Registered Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto.....	EDR Exclusive Historic Gas Stations
EDR Hist Cleaner.....	EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS.....	Recovered Government Archive State Hazardous Waste Facilities List
RGA LF.....	Recovered Government Archive Solid Waste Facilities List
RGA LUST.....	Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Quality's Louisiana Underground Storage Tank Database.

An online review and analysis by PPM CONSULTANTS INC. of the UST list, as provided by EDR, and dated 10/18/2016 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

EXECUTIVE SUMMARY

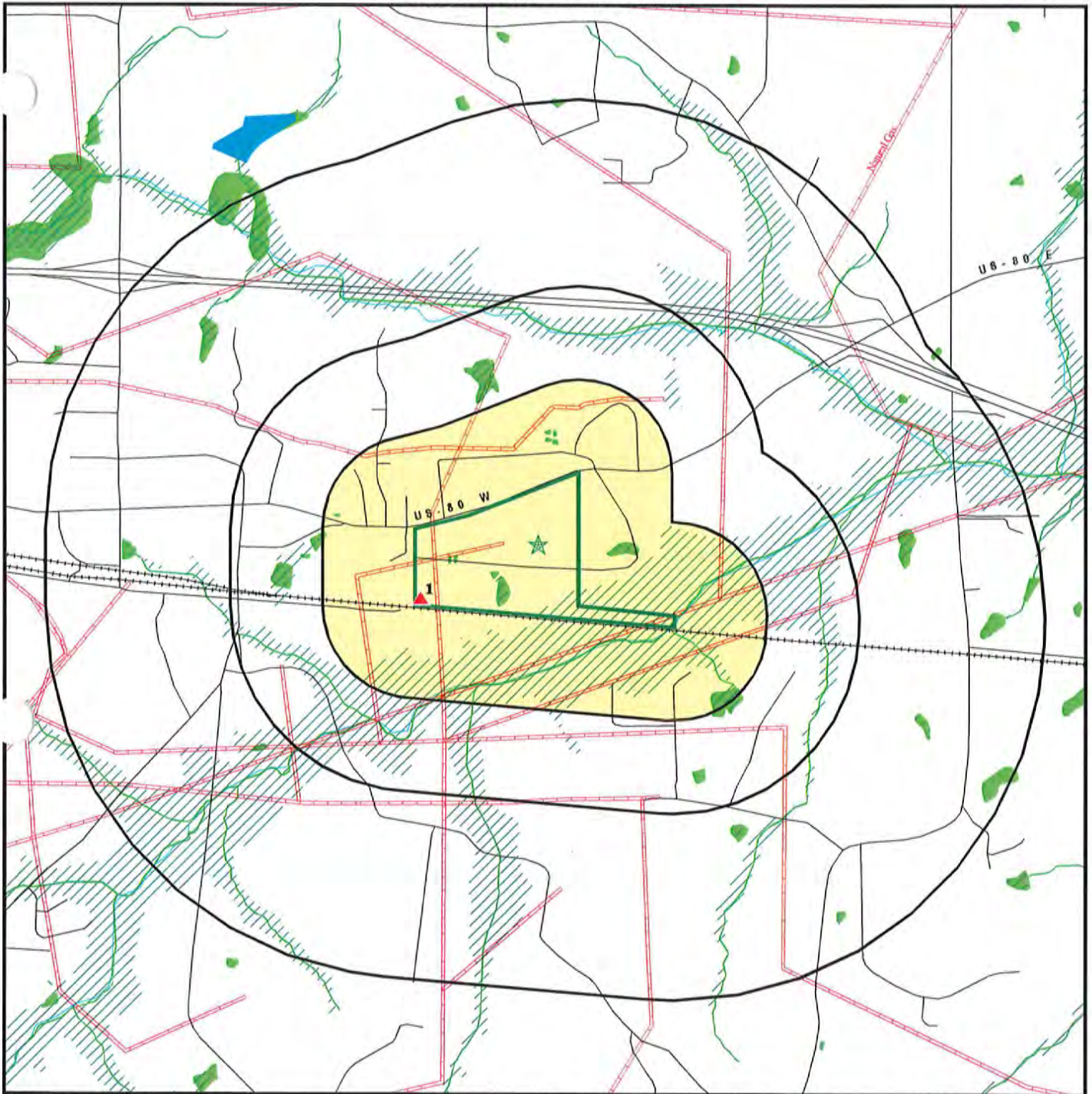
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
QUICK STOP GROCERY Tank Status: Removed Master Agency Id: 69572	HWY 80	0 - 1/8 (0.000 mi.)	1	8

EXECUTIVE SUMMARY

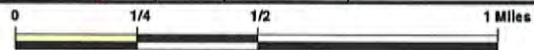
Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

<u>Site Name</u>	<u>Database(s)</u>
STOCKMAN'S FEED	UST

OVERVIEW MAP - 4854246.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory

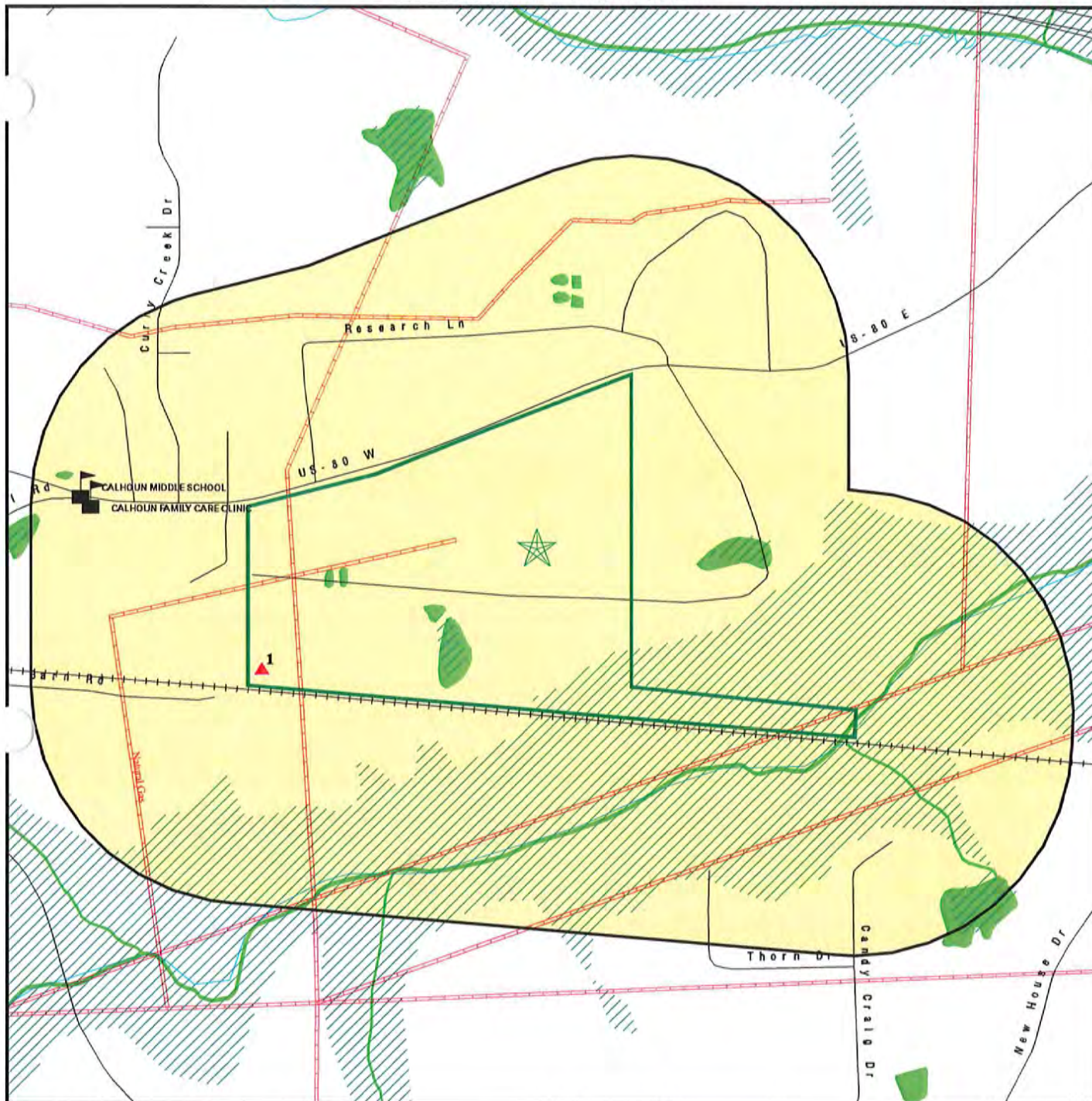


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: South Tract
ADDRESS: 321 US Highway 80 East
 Calhoun LA 71225
LAT/LONG: 32.511111 / 92.344444

CLIENT: PPM Consultants Inc.
CONTACT: Jordan Harper
INQUIRY #: 4854246.2s
DATE: February 14, 2017 6:00 pm

DETAIL MAP - 4854246.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: South Tract
ADDRESS: 321 US Highway 80 East
 Calhoun LA 71225
LAT/LONG: 32.511111 / 92.344444

CLIENT: PPM Consultants Inc.
CONTACT: Jordan Harper
INQUIRY #: 4854246.2s
DATE: February 14, 2017 6:01 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>STANDARD ENVIRONMENTAL RECORDS</u>								
<i>Federal NPL site list</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site list</i>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	TP		NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent CERCLIS</i>								
SHWS	1.000		0	0	0	0	NR	0
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
DEBRIS	0.500		0	0	0	NR	NR	0
HIST DEBRIS	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LUST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
HIST LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		1	0	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
AUL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
DEL SHWS	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
ASBESTOS	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
REM	0.500		0	0	0	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
ABANDONED MINES	0.500		0	0	0	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
<u>EDR RECOVERED GOVERNMENT ARCHIVES</u>								
<i>Exclusive Recovered Govt. Archives</i>								
RGA HWS	TP		NR	NR	NR	NR	NR	0
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	1	0	0	0	0	1

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

1 QUICK STOP GROCERY
HWY 80
< 1/8 CALHOUN, LA 71225
1 ft.

UST U000879201
N/A

Relative:
Higher

UST:

Master Agency Id: 69572
Subject Item ID: 1

Actual:
149 ft.

UST Tank Num: 1138
Tank Status: Removed
Install Date: 01/01/1980
Total Capacity: 1000
Number Of Compartments: 1
Gasoline: Not reported
Diesel: Not reported
Gasohol: Not reported
Kerosene: Not reported
Heating Oil: Not reported
New Used Oil: Not reported
MS Aviation Fuel: Not reported
MS Additive: Not reported
MS Antifreeze: Not reported
MS Naptha: Not reported
MS Varsol: Not reported
Unknown: Not reported
Other Sub: Not reported
Steel Tank Covered With Asphalt: Not reported
Cathodically Protected: Not reported
Epoxy Coated Tank: Not reported
A Composite Of Different Materials: Not reported
Fiberglass Or Plastic: Not reported
Interior Line With Some Material: Not reported
Double Wall As Opposed To Single Wall: Not reported
Outside Lined w/ Polyethylen Jacket: Not reported
Made Of Concrete: Not reported
Liner Covering Excavation Hole: Not reported
Other Material: Not reported
Pipe Method Description: Not reported

UST Tank Num: 1139
Tank Status: Removed
Install Date: 01/01/1980
Total Capacity: 1000
Number Of Compartments: 1
Gasoline: Not reported
Diesel: Not reported
Gasohol: Not reported
Kerosene: Not reported
Heating Oil: Not reported
New Used Oil: Not reported
MS Aviation Fuel: Not reported
MS Additive: Not reported
MS Antifreeze: Not reported
MS Naptha: Not reported
MS Varsol: Not reported
Unknown: Not reported
Other Sub: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

QUICK STOP GROCERY (Continued)

U000879201

Steel Tank Covered With Asphalt:	Not reported
Cathodically Protected:	Not reported
Epoxy Coated Tank:	Not reported
A Composite Of Different Materials:	Not reported
Fiberglass Or Plastic:	Not reported
Interior Line With Some Material:	Not reported
Double Wall As Opposed To Single Wall:	Not reported
Outside Lined w/ Polyethylen Jacket:	Not reported
Made Of Concrete:	Not reported
Liner Covering Excavation Hole:	Not reported
Other Material:	Not reported
Pipe Method Description:	Not reported

Count: 1 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CALHOUN	U004245659	STOCKMAN'S FEED	ARK RD W	71225	UST

EDR ZIP Code Scan Results

ZIP	EDR-ID	Facility ID	Name	Address	Map/Dir/Dist	City	State	Databases
* - Indicates location may or may not be in requested radius. Site has not been assigned a latitude/longitude coordinate. Further review recommended.								
71225	S109971920		LSU CALHOUN RESEARCH STATION		**	CALHOUN	LA	ASBESTOS
71225	S109972009		LSU CALHOUN RESEARCH STATION		**	CALHOUN	LA	ASBESTOS
71225	S109972055		LSU CALHOUN RESEARCH STATION		**	CALHOUN	LA	ASBESTOS
71225	S109971950		LSU CALHOUN RESEARCH STATION		**	CALHOUN	LA	NPDES
71225	S117325740	75495	D & L OF OUACHITA INC - STAGG RESIDE		**	CALHOUN	LA	UST
71225	U003073083		HARDE MART #12 - CALHOUN	I-20 & HWY 151	**	CALHOUN	LA	UST
71225	U004245663		STUCKEY'S #34	I-20 & HWY 151	**	CALHOUN	LA	RCRA-NonGen
71225	U002083666		OGDEN'S TIRE & DIESEL SVC	120 & HWY 80	**	CALHOUN	LA	NPDES
71225	U016271036	LAD103970091	INDIAN HILLS MANUFACTURED HOMES S	120 & HWY 80	**	CALHOUN	LA	NPDES
71225	S109352293	11000383249	IMPORTS UNLIMITED PARTS & SALVAGE	3966 HWY 15 N	**	CALHOUN	LA	RCRA-NonGen, FINDS
71225	U00407368	110043544475	CENTRAL ELEMENTARY SCHOOL	1163 HWY 151 S	**	CALHOUN	LA	NPDES
71225	S108994711		CENTRAL ELEMENTARY SCHOOL	2247 HWY 151 N	**	CALHOUN	LA	FINDS
71225	U0038308043	110022025663	ECOLOGICAL TANKS INC	537 HWY 151	**	CALHOUN	LA	FINDS
71225	U047217871	110040858328	101 TRAVEL PLAZA	537 HWY 151	**	CALHOUN	LA	NPDES, UST
71225	U008231079	110021031569	101 TRAVEL PLAZA	537 HWY 151 N @ I-20	**	CALHOUN	LA	FINDS
71225	U0039227174	42560	SOUTH CENTRAL BELL CLHNLAMA	HWY 151	**	CALHOUN	LA	RCRA-NonGen
71225	U016271174	110008384774	SOUTH CENTRAL BELL CLHNLAMA	HWY 151	**	CALHOUN	LA	HIST LUST
71225	U004045465	LAD980629323	STOP-N-SAVE FUEL STOP	HWY 151 AND I-20 W	**	CALHOUN	LA	SPILLS
71225	S106033814	37-005390	PERRY & SONS, LLC	1005 HWY 80 & BROWNLEE RD	**	CALHOUN	LA	UST
71225	S117043609		SPILLERS MINI MART OF CALHOUN	1005 HWY 80 & BROWNLEE RD	**	CALHOUN	LA	EDR Historical Cleaners
71225	U003958885		SPILLERS MINI MART OF CALHOUN	1005 HWY 80 & BROWNLEE RD	**	CALHOUN	LA	UST
71225	U014366927		PINE HILLS DELI & MARKET	1300 HIGHWAY 80 E	**	CALHOUN	LA	NPDES
71225	U000874895		RED DIRT PROPERTIES LLC - SOUTHERN	1300 HWY 80 E	**	CALHOUN	LA	NPDES
71225	S118246881		RED DIRT PROPERTIES LLC - SOUTHERN	1570 HWY 80 E	**	CALHOUN	LA	NPDES
71225	U018131025		LESSIE MARIE CLARK BULLOCK	1711 HWY 80 E	**	CALHOUN	LA	NPDES
71225	U001898296	87832	OUACHITA PARISH SCHOOL BOARD - CAL	191 HWY 80 E	**	CALHOUN	LA	NPDES
71225	S108339146	110009016242	PINE HILL MOBILE HOME PARK	2001 HWY 80 E	**	CALHOUN	LA	NPDES, FINDS, SPILLS
71225	U005592873		FIRST BAPTIST CHURCH OF CALHOUN L	2981 HWY 80 W	**	CALHOUN	LA	NPDES
71225	S118734986		FIRST BAPTIST CHURCH OF CALHOUN	2981 HWY 80 WEST	**	CALHOUN	LA	FINDS
71225	U016901648	110060271575	FIRST BAPTIST CHURCH OF CALHOUN	2981 HWY 80 WEST	**	CALHOUN	LA	NPDES
71225	S108337173	42519	MILSTEAD'S MOBILE HOME PARK	2984 HWY 80 WEST	**	CALHOUN	LA	FINDS
71225	U008196780	110020832599	MILSTEAD'S MHP	2984 HWY 80 WEST	**	CALHOUN	LA	EDR Historical Auto
71225	U015397395			2988 HIGHWAY 80 E	**	CALHOUN	LA	Stations
71225	U015397396			2988 HIGHWAY 80 W	**	CALHOUN	LA	Stations
71225	U004156184		LIL' JOE'S TIRE & OIL CHANGE INC	2988 HWY 80 W	**	CALHOUN	LA	UST
71225	U000879901		KUNTRY KORNER INC	3156 HWY 80 W	**	CALHOUN	LA	UST
71225	S108668387	40925	STARBRITE TRUCK & CAR WASH	982 HWY 80 E	**	CALHOUN	LA	NPDES
71225	U015688829			985 HIGHWAY 80 E	**	CALHOUN	LA	EDR Historical Auto
71225	S108995154		USA TRUCKSTOP INC	985 HWY 80 E	**	CALHOUN	LA	Stations
71225	S118841797		USA TRUCKSTOP INC	985 HWY 80 E	**	CALHOUN	LA	NPDES
71225	U003979682	42520	USA TRUCKSTOP INC	985 HWY 80 E	**	CALHOUN	LA	SPILLS
71225	U004513328	110006648333	USA TRUCKSTOP, INC.	985 HWY 80 EAST	**	CALHOUN	LA	UST
71225	U015689151			988 HIGHWAY 80 E	**	CALHOUN	LA	ICIS, FINDS
71225	S106034084		SPILLERS MINI MART OF CALHOUN	HIGHWAY 80 & BROWNLEE RAOD	**	CALHOUN	LA	EDR Historical Auto
71225	S118892661	37-013118	RED DIRT PROPERTIES LLC - SOUTHERN	HWY 80	**	CALHOUN	LA	Stations
71225	S118623437		ANDREW ROBERSON - ALAN'S VIEW	HWY 80	**	CALHOUN	LA	HIST LUST
71225	U000879201		E Z SERVE #0004	HWY 80	**	CALHOUN	LA	NPDES
71225	U004156127		JAMES GARLAND & DAVID MANUEL	HWY 80 & I-20 EXIT 103	**	CALHOUN	LA	UST
71225	U007261702	110017358045	I-20 CONOCO	HWY 80 @ LANEY CROCKER ROAD	**	CALHOUN	LA	FINDS
71225	S106034083	37-003322	SPILLERS INTERSTATE 20 CONOCO STA1	HWY 80 AT I-20 EXIT 103	**	CALHOUN	LA	HIST LUST
71225	U003922751	43341	SPILLERS INTERSTATE 20 CONOCO STA1	HWY 80 I-20	**	CALHOUN	LA	NPDES, AUL
71225	U004156494		USA TRUCKSTOP INC.	HWY 80 I-20	**	CALHOUN	LA	UST
71225	U016901636	110060271432	WARREN #1	985 HWY 80E	**	CALHOUN	LA	FINDS
71225	S112270433		STOCKMAN'S FEED	LA 837	**	CALHOUN	LA	UST
71225	U004245659		LOUISIANA LAND & WATER CO INC - SLOI	ARK RD W	**	CALHOUN	LA	NPDES
71225	S108335778	33757	GREATER OUACHITA WATER CO - SLOCI	BEHIND 377 & 385 SLOCUM RD	**	CALHOUN	LA	NPDES
71225	S117726216		SPRAY FOAM EQUIPMENT & MANUFACTL	BEHIND 413 & 425 SLOCUM RD	**	CALHOUN	LA	FINDS
71225	S112324811	110033194193	LOUISIANA LAND AND WATER COMPANY	1705 BEULAH CHURCH RD	**	CALHOUN	LA	ICIS, FINDS
71225	U006818630	110012879144	CALHOUN RESEARCH STA WATER SYS	400 BLOCK SLOCUM ROAD	**	CALHOUN	LA	UST
71225	U003666920		PINE HILL GOLF & COUNTRY CLUB	PO BOX 539	**	CALHOUN	LA	NPDES
71225	S108333134	132156	L&R UTILITIES INC - THE HEDGES SUBDI\	BRITTON RD	**	CALHOUN	LA	NPDES
71225	S110297191		BRYAN'S RV PARK INC	141 BROWNLEE RD	**	CALHOUN	LA	FINDS
71225	U012311624	110040433876	RAWLS RV PARK	214 BROWNLEE RD	**	CALHOUN	LA	FINDS

EDR ZIP Code Scan Results

ZIP	EDR-ID	Facility ID	Name	Address	Map/DirDist	City	State	Databases
71225	S116735178	110060267919	JTB RENTALS LLC	BROWNLEE RD @ HWY 80 E		CALHOUN	LA	NPDES
71225	1016901327		JTB RENTALS LLC	BROWNLEE RD @ HWY 80 E		CALHOUN	LA	FINDS
71225	U003369909	33953	CALHOUN ELEMENTARY SCHOOL	237 CALHOUN SCHOOL RD	**	CALHOUN	LA	UST
71225	S106333820	110027225394	CALHOUN ELEMENTARY SCHOOL	237 CALHOUN SCHOOL RD		CALHOUN	LA	NPDES
71225	1009796811		EARNEST JACKSON ETAL 30 #1 TANK BA	ON CAPLES RD 6.5 MI SE OF		CALHOUN	LA	FINDS
71225	S113394141		EARNEST JACKSON ETAL 30 #1 TANK BA	ON CAPLES RD 6.5 MI SE OF		CALHOUN	LA	NPDES, SPILLS
71225	S110136558		AVANT MOTEL WEST - STP	135 CLAIBORNE RD		CALHOUN	LA	EDR Historical Auto
71225	1015675064			920 CLAIBORNE RD		CALHOUN	LA	Stations
71225	S114020083		RYAN WATSON - CLAIBORNE ROAD DUPL	CLAIBORNE RD	**	CALHOUN	LA	NPDES
71225	1017369044	110060353399	D AND L OF OUACHITA INC	546 COLLIE RD		CALHOUN	LA	FINDS
71225	S108332517	126164	ONYX CAPITAL - DEER RUN MOBILE HOM	161 COWBOY RD		CALHOUN	LA	NPDES
71225	1007126848	110015720898	CURRY CREEK WATER LLC	CURRY CREEK DR	**	CALHOUN	LA	FINDS
71225	S117723917		CURRY CREEK WATER LLC - WASTEWAT	CURRY CREEK DR	**	CALHOUN	LA	NPDES
71225	S108331521	115246	CURRY CREEK WASTEWATER TREATMEI	CURRY CREEK DR		CALHOUN	LA	NPDES
71225	1008220287	110022418310	ONYX CAPITAL, LLC	DEER RUN MOBILE HOME PARK	**	CALHOUN	LA	FINDS
71225	S112270386		LSU #1-26 FACILITY	1.2 MI E OF		CALHOUN	LA	FINDS
71225	1006674066	110007292811	LSU #1-26 FACILITY	1.2 MI E OF		CALHOUN	LA	FINDS
71225	S117370456		L & R UTILITIES	END OF PINE HILLS DR	**	CALHOUN	LA	SPILLS
71225	S117043662		L & R UTILITIES	END OF PINE HILLS DR	**	MONROE	LA	SPILLS
71225	S117044253		L & R UTILITIES	END OF PINE HILLS DR	**	CALHOUN	LA	SPILLS
71225	S108334297	18336	L & R UTILITIES INC - PINE HILLS SUBDIVIS	END OF PINE HILLS DR	**	CALHOUN	LA	NPDES
71225	S117043320		L & R UTILITIES	END OF PINE HILLS DR	**	CALHOUN	LA	SPILLS
71225	S117370600		L & R UTILITIES	END OF PINE HILLS DR	**	CALHOUN	LA	SPILLS
71225	S117370599		L & R UTILITIES	END OF PINE HILLS DR	**	CALHOUN	LA	SPILLS
71225	S117042252		L & R UTILITIES	END OF PINE HILLS DR	**	CALHOUN	LA	SPILLS
71225	1016066205		EL PASO ENERGY CALHOUN GAS PLANT	1644 GOLSON RD		CALHOUN	LA	FINDS
71225	1005926742	110017724168	CALHOUN PLANT	183 GRIGGS ROAD		CALHOUN	LA	TSCA
71225	1011822965		EL PASO ENERGY CALHOUN GAS PLANT	183 GRIGGS ROAD		CALHOUN	LA	RMP
71225	100892777	LAD000757401	KERR MCGEE SHARED SERVICES LLC	200 GRIGGS RD		CALHOUN	LA	RCRAinfo-SQG
71225	1007464971	110007301179	TRONOX WORLDWIDE LLC - CALHOUN RI	200 GRIGGS RD		CALHOUN	LA	ICIS, FINDS
71225	S108334789	19522	CALHOUN PLANT - CALHOUN FIELD	200 GRIGGS RD		CALHOUN	LA	NPDES
71225	S117324470		CALHOUN PLANT - CALHOUN FIELD	200 GRIGGS RD		CALHOUN	LA	FINDS
71225	1006516129	110001316200	CALHOUN - CADEVILLE COMPRESSOR ST	679 HANEY SMITH RD		CALHOUN	LA	FINDS
71225	S112270380		CALHOUN - CADEVILLE COMPRESSOR ST	679 HANEY SMITH RD		CALHOUN	LA	FINDS
71225	S108333950	144866	AMERICAN WATER & WASTEWATER MAN	HATTAWAY RD	**	CALHOUN	LA	NPDES
71225	S108333733	140961	MICHAEL WATSON CONSTRUCTION LLC -	HATTAWAY RD	**	CALHOUN	LA	NPDES
71225	S118734904		WILLOW CREEK SUBDIVISION	HATTAWAY RD	**	CALHOUN	LA	NPDES
71225	1009606164	110025310820	WILLOW CREEK UNIT NO.2	HATTAWAY ROAD		CALHOUN	LA	EDR Historical Cleaners
71225	1015000929		GREATER OUACHITA WATER CO - CALVE	162 HODGE WATSON RD		CALHOUN	LA	NPDES
71225	S108339624	94558	GREATER OUACHITA WATER CO - CALVE	515 HODGE WATSON RD		CALHOUN	LA	FINDS
71225	1010013741	110027986981	CALVERT COUNTRY ESTATES	515 HODGE WATSON RD		CALHOUN	LA	FINDS
71225	1008363913	110022460380	INDIAN HILLS MANUFACTURED	HOME SUBDIVISION	**	CALHOUN	LA	FINDS
71225	1011423087	110035772287	CLAIBORNE ROAD DUPLEXES	US HW 80 & CLAIBORNE RD		CALHOUN	LA	FINDS
71225	1016417732	110055632766	LOUISIANA GREASE SERVICE	3090 LA HWY 80		CALHOUN	LA	FINDS
71225	1007648849	110020059915	STARBERITE TRUCK & CARWASH	982 US HWY 80 EAST		CALHOUN	LA	FINDS
71225	1009444472	110024570784	INDIAN HILLS MFG HOMES SUBD	ON HWY 144, 3/4 M S OF JCT W/H	**	CALHOUN	LA	FINDS
71225	1010178044	110030446319		177 JOHN KENT RD	**	CALHOUN	LA	SPILLS
71225	S118159144			142 LUEBENIA RD		CALHOUN	LA	SPILLS
71225	S117044417			142 LUEBENIA RD		CALHOUN	LA	SPILLS
71225	S117371067			142 LUEBENIA RD		CALHOUN	LA	SPILLS
71225	S108336409	40977	GOLSON HEIGHTS APARTMENTS	2 MILES NORTH OF CITY,	**	CALHOUN	LA	NPDES
71225	1005929791	LAD980879431	KERR-MCGEE-DUBACH/CALHOUN PLT	2 MI N OF I-20 ON LA HWY 151	**	CALHOUN	LA	TSCA
71225	1015734298		MOBIL J M RUSSELL # 1 FACILITY	1 MI NW OF	**	CALHOUN	LA	CERCLIS-NFRAP
71225	1006674065	110007292802	MOBIL J M RUSSELL # 1 FACILITY	1 MI NW OF	**	CALHOUN	LA	FINDS
71225	S112270385		POWELL # 2 TANK BATTERY	2.5 MI NW OF	**	INDIAN VILLAGE	LA	FINDS
71225	1010729082	110033659681	POWELL # 2 TANK BATTERY	2.5 MI NW OF	**	INDIAN VILLAGE	LA	FINDS
71225	1010727252	110033668751	TEMPLE #6 TANK BATTERY	3.3 MI NW OF	**	INDIAN VILLAGE	LA	FINDS
71225	1010729087	110033659734	TEMPLE #6 TANK BATTERY	3.3 MI NW OF	**	CALHOUN	LA	FINDS
71225	1004512730	110007302338	STAPLES FACILITY	OFF COLLIE RD	**	CALHOUN	LA	SPILLS
71225	S112270382		STAPLES FACILITY	OFF COLLIE RD	**	CALHOUN	LA	FINDS
71225	S117042578		COON 31 #1 TANK BATTERY - CADEVILLE	OFF ERNEST WHITE RD 7 MI SE OF		CALHOUN	LA	
71225	1009796814	110027225429	COON 31 #1 TANK BATTERY - CADEVILLE	OFF ERNEST WHITE RD 7 MI SE OF		CALHOUN	LA	
71225	S113394143		CADEVILLE FIELD TREATMENT FACILITY	OFF MT PLEASANT & WINFIELD RDS		CALHOUN	LA	
71225	S113394136		CADEVILLE FIELD TREATMENT FACILITY	OFF MT PLEASANT & WINFIELD RDS		CALHOUN	LA	
71225	S113394137		CADEVILLE FIELD TREATMENT FACILITY	OFF MT PLEASANT & WINFIELD RDS	**	CALHOUN	LA	
71225	1009796813	110027225410	D E SPRINGFIELD 19 #1 TANK BATTERY -	OFF MT PLEASANT RD 5.5 MI SE OF		CALHOUN	LA	FINDS
71225	S113394142		D E SPRINGFIELD 19 #1 TANK BATTERY -	OFF MT PLEASANT RD 5.5 MI SE OF		CALHOUN	LA	FINDS
71225	1004513199	110007039374	DUBACH GAS CO - AMOCO COMPRESSOI	OPHELIA YOUNG RD	**	CALHOUN	LA	FINDS
71225	S113394120		DUBACH GAS CO - AMOCO COMPRESSOI	OPHELIA YOUNG RD	**	CALHOUN	LA	FINDS
71225	1005656692	110010598004	ROBERT BEESON	P.O.	**	CALHOUN	LA	ICIS, FINDS

EDR ZIP Code Scan Results

ZIP	EDR-ID	Facility ID	Name	Address	Map/Dir/Dist	City	State	Databases
71225	1017785380	110064531699	J W RUSSELL 2 FACILITY	RIGHT ON LANEY CROCKER RD APPROX	**	CALHOUN	LA	FINDS
71225	S116597877	110027254860	J W RUSSELL 2 FACILITY	RIGHT ON LANEY CROCKER RD APPROX		CALHOUN	LA	FINDS
71225	1009804063	140224	THREE S MOBILE HOME PARK	127 ROLLEIGH ROAD WEST		CALHOUN	LA	FINDS
71225	S103333701	110007040246	THREE S MOBILE HOME PARK	127 W ROLLEIGH RD W		CALHOUN	LA	NPDES
71225	1006668648		CALHOUN COMPRESSOR STATION	1 MI S OF		CALHOUN	LA	FINDS
71225	S113394124		CENTERPOINT ENERGY GAS TRANSMISSION	1 MI S OF		CALHOUN	LA	FINDS
71225	S112270405		CENTERPOINT ENERGY GAS TRANSMISSION	1 MI S OF		CALHOUN	LA	FINDS
71225	S112270405		CENTERPOINT ENERGY GAS TRANSMISSION	1 MI S OF		CALHOUN	LA	FINDS
71225	1005525207	110007307431	FINLEY #1 FACILITY	2.5 MI S OF		CALHOUN	LA	FINDS
71225	1008167930	110020582699	FINLEY #1 FACILITY	2.5 MI S OF		CALHOUN	LA	FINDS
71225	S112270423		HALEY #1 FACILITY	35 MI S OF		CALHOUN	LA	FINDS
71225	1005525206	110007307422	HALEY #1 FACILITY	35 MI S OF		CALHOUN	LA	FINDS
71225	S112270404		J B BROWN #1 PRODUCTION FACILITY	1 MI SE OF		CALHOUN	LA	HIST LUST
71225	S106034143	37-012861	J B BROWN #1 PRODUCTION FACILITY	1 MI SE OF		CALHOUN	LA	FINDS
71225	1009610865	110025339293	103 TRUCK STOP, INC.	120 SERVICE ROAD, EXIT 103		WEST MONROE	LA	FINDS
71225	1017760855		THE HEDGES	WEST SIDE OF BRITTON RD		CALHOUN	LA	FINDS
71225	S118942807		GREATER OUACHITA WATER COMPANY	425 SLOCUM RD		CALHOUN	LA	NPDES
71225	S112270420		CRUZIN 1 LLC - SOUTHERN LAKES ESTAT	SOUTHERN LAKE ESTATES		CALHOUN	LA	FINDS
71225	1007147251	110015977380	GREEN 1-25 PRODUCTION FACILITY - CAL	3.5 MI SSE OF		CALHOUN	LA	FINDS
71225	1005525155	110007307440	GREEN 1-25 PRODUCTION FACILITY - CAL	3.5 MI SSE OF		CALHOUN	LA	FINDS
71225	S112270406		F E HAMMONDS 5 #33 PRODUCTION FACI	0.4 MI SW OF		CALHOUN	LA	FINDS
71225	1006512240	110001248604	F E HAMMONDS 5 #33 PRODUCTION FACI	0.4 MI SW OF		CALHOUN	LA	FINDS
71225	S112270384		O S CHAPMAN #1-32 PRODUCTION FACIL	1.7 MI SW OF		CALHOUN	LA	FINDS
71225	S112270427		O S CHAPMAN #1-32 PRODUCTION FACIL	1.7 MI SW OF		CALHOUN	LA	FINDS
71225	1010022099	110028005566	HAMMONDS #1 PRODUCTION FACILITY	1.8 MI SW OF		CALHOUN	LA	FINDS
71225	S112270424		HAMMONDS #1 PRODUCTION FACILITY	1.8 MI SW OF		CALHOUN	LA	FINDS
71225	1008392911	110022576014	GREER #1 PRODUCTION FACILITY	7 MI SW OF		CALHOUN	LA	FINDS
71225	1009651378	110027366286	GREER #1 PRODUCTION FACILITY	7 MI SW OF		CALHOUN	LA	FINDS
71225	1016191308	110003307671	WILLOW CREEK SUBDIVISION	UNIT #2; HATTAWY RD & BRITTON RD		CALHOUN	LA	FINDS
71225	1015220269	110007292795	LA TECH COLLEGE DELTA OUACHITA	609 VOCATIONAL PKWY		CALHOUN	LA	FINDS
71225	1017438456		TURNER #1-28 FACILITY	0.3 MI W OF		CALHOUN	LA	FINDS
71225	S112270383		TURNER #1-28 FACILITY	0.3 MI W OF		CALHOUN	LA	FINDS
71225	1004711584	110008391739	TURNER #1-28 FACILITY	0.3 MI W OF		CALHOUN	LA	RCRA-CESQG, FINDS
71225	S112270413		DUBACH GAS CO CALHOUN PLT	1 MI W OF HWY 151 ON GRIGS RD		CALHOUN	LA	FINDS
71225	1005677862	110007392703	J P RIEGER #1 FACILITY	1 MI W OF		CALHOUN	LA	FINDS
71225	S112270414		J P RIEGER #1 FACILITY	1 MI W OF		CALHOUN	LA	FINDS
71225	1006770356	110013390669	CALK 1-29 PRODUCTION FACILITY	1.2 MI W OF		CALHOUN	LA	FINDS
71225	1016166488	110055583738	CALK 1-29 PRODUCTION FACILITY	1.2 MI W OF		CALHOUN	LA	FINDS
71225	S112270435		REDDY #1 FACILITY	3 MI W OF		CALHOUN	LA	FINDS
71225	1006656242	110007007764	REDDY #1 FACILITY	3 MI W OF		CALHOUN	LA	FINDS
71225	S112270408		FUTCH #1 PRODUCTION FACILITY - (OUA)	4.1 MI W SW OF		CALHOUN	LA	FINDS
71225	S112270381		FUTCH #1 PRODUCTION FACILITY - (OUA)	4.1 MI W SW OF		CALHOUN	LA	FINDS
71225	1004512729	110007040601	CALHOUN FACILITY	5 MI W OF		CALHOUN	LA	FINDS
71225	S117726066		CALHOUN FACILITY	5 MI W OF		CALHOUN	LA	NPDES
71225	S113394135		TNT BUILDERS - WHITLOCK ESTATES	WHITLOCK ESTATES		CALHOUN	LA	FINDS
71225	1008908119	110022937312	COTSWOLD 20 #1 TANK BATTERY - CADE	WINNFIELD RD 6 MI SE OF		CALHOUN	LA	FINDS
71225	1012082611	110038330302	COTSWOLD 20 #1 TANK BATTERY - CADE	WINNFIELD RD 6 MI SE OF		CALHOUN	LA	FINDS
71225	S112270407		BUTLER #1-30 CALHOUN FIELD	4.6 M WSW OF		CALHOUN	LA	ICIS, FINDS
71225	1005594580	110007042397	BUTLER #1 PRODUCTION FACILITY SN 22	4.6 M WSW OF		CALHOUN	LA	ICIS, FINDS
71225	S113394132		BUTLER #1 PRODUCTION FACILITY	4.9 MI WSW OF		CALHOUN	LA	ICIS, FINDS
71225	1006770355	110013390650	ARLIS SANFORD #1 PRODUCTION FACILI	4.9 MI WSW OF		CALHOUN	LA	ICIS, FINDS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 12/05/2016	Source: EPA
Date Data Arrived at EDR: 01/05/2017	Telephone: N/A
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 01/05/2017
Number of Days to Update: 29	Next Scheduled EDR Contact: 04/17/2017
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 12/05/2016	Source: EPA
Date Data Arrived at EDR: 01/05/2017	Telephone: N/A
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 01/05/2017
Number of Days to Update: 29	Next Scheduled EDR Contact: 04/17/2017
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 12/05/2016	Source: EPA
Date Data Arrived at EDR: 01/05/2017	Telephone: N/A
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 01/05/2017
Number of Days to Update: 29	Next Scheduled EDR Contact: 04/17/2017
	Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 09/14/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/04/2016	Telephone: 703-603-8704
Date Made Active in Reports: 10/21/2016	Last EDR Contact: 01/05/2017
Number of Days to Update: 17	Next Scheduled EDR Contact: 04/17/2017
	Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/10/2016	Source: EPA
Date Data Arrived at EDR: 10/20/2016	Telephone: 800-424-9346
Date Made Active in Reports: 01/06/2017	Last EDR Contact: 01/06/2017
Number of Days to Update: 78	Next Scheduled EDR Contact: 05/01/2017
	Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 10/10/2016	Source: EPA
Date Data Arrived at EDR: 10/20/2016	Telephone: 800-424-9346
Date Made Active in Reports: 01/06/2017	Last EDR Contact: 01/06/2017
Number of Days to Update: 78	Next Scheduled EDR Contact: 05/01/2017
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/12/2016	Source: EPA
Date Data Arrived at EDR: 12/28/2016	Telephone: 800-424-9346
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 12/28/2016
Number of Days to Update: 44	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/12/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/28/2016	Telephone: 214-665-6444
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 12/28/2016
Number of Days to Update: 44	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/12/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/28/2016	Telephone: 214-665-6444
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 12/28/2016
Number of Days to Update: 44	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/12/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/28/2016	Telephone: 214-665-6444
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 12/28/2016
Number of Days to Update: 44	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/12/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/28/2016	Telephone: 214-665-6444
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 12/28/2016
Number of Days to Update: 44	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015	Source: Department of the Navy
Date Data Arrived at EDR: 05/29/2015	Telephone: 843-820-7326
Date Made Active in Reports: 06/11/2015	Last EDR Contact: 02/13/2017
Number of Days to Update: 13	Next Scheduled EDR Contact: 05/29/2017
	Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 11/15/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/29/2016	Telephone: 703-603-0695
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 11/29/2016
Number of Days to Update: 66	Next Scheduled EDR Contact: 03/13/2017
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 11/15/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/29/2016	Telephone: 703-603-0695
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 11/29/2016
Number of Days to Update: 66	Next Scheduled EDR Contact: 03/13/2017
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/26/2016
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 43

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 12/28/2016
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Potential and Confirmed Sites List

Confirmed status denotes that assessments have been performed and a determination made that (1) hazardous waste(s) or substance(s) are present at the site and (2) these sites are under the jurisdiction of the LDEQ/RSD. Potential status is an indicator that sites are either waiting to be assessed or the assessment is in progress.

Date of Government Version: 10/18/2016
Date Data Arrived at EDR: 10/21/2016
Date Made Active in Reports: 12/21/2016
Number of Days to Update: 61

Source: Department of Environmental Quality
Telephone: 225-219-3181
Last EDR Contact: 01/12/2017
Next Scheduled EDR Contact: 05/01/2017
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Landfill List

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/13/2016
Date Made Active in Reports: 12/21/2016
Number of Days to Update: 8

Source: Department of Environmental Quality
Telephone: 225-219-3181
Last EDR Contact: 12/09/2016
Next Scheduled EDR Contact: 03/27/2017
Data Release Frequency: Annually

DEBRIS: LDEQ Approved Debris Sites

A listing of LDEQ Approved Debris Sites where hurricane debris is dumped.

Date of Government Version: 11/29/2016
Date Data Arrived at EDR: 12/01/2016
Date Made Active in Reports: 12/21/2016
Number of Days to Update: 20

Source: Department of Environmental Quality
Telephone: 225-219-3953
Last EDR Contact: 12/01/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Varies

HIST DEBRIS: LDEQ Approved Debris Sites

A listing of LDEQ Approved Debris Sites where hurricane debris is dumped.

Date of Government Version: 02/07/2007
Date Data Arrived at EDR: 11/14/2008
Date Made Active in Reports: 11/21/2008
Number of Days to Update: 7

Source: Department of Environmental Quality
Telephone: 225-219-3070
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

State and tribal leaking storage tank lists

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST: Leaking Underground Storage Tanks

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 10/18/2016	Source: Department of Environmental Quality
Date Data Arrived at EDR: 10/21/2016	Telephone: 225-219-3181
Date Made Active in Reports: 12/21/2016	Last EDR Contact: 01/12/2017
Number of Days to Update: 61	Next Scheduled EDR Contact: 05/01/2017
	Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/09/2015	Source: EPA Region 7
Date Data Arrived at EDR: 02/12/2016	Telephone: 913-551-7003
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 01/26/2017
Number of Days to Update: 112	Next Scheduled EDR Contact: 05/08/2017
	Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/13/2015	Source: EPA Region 8
Date Data Arrived at EDR: 10/23/2015	Telephone: 303-312-6271
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 01/26/2017
Number of Days to Update: 118	Next Scheduled EDR Contact: 05/08/2017
	Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 02/25/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/27/2016	Telephone: 415-972-3372
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 01/26/2017
Number of Days to Update: 37	Next Scheduled EDR Contact: 05/08/2017
	Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/27/2015	Source: EPA Region 1
Date Data Arrived at EDR: 10/29/2015	Telephone: 617-918-1313
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 01/26/2017
Number of Days to Update: 67	Next Scheduled EDR Contact: 05/08/2017
	Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 02/17/2016	Source: EPA, Region 5
Date Data Arrived at EDR: 04/27/2016	Telephone: 312-886-7439
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 01/26/2017
Number of Days to Update: 37	Next Scheduled EDR Contact: 05/08/2017
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 02/05/2016	Source: EPA Region 4
Date Data Arrived at EDR: 04/29/2016	Telephone: 404-562-8677
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 01/24/2017
Number of Days to Update: 35	Next Scheduled EDR Contact: 05/08/2017
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 12/11/2015	Source: EPA Region 6
Date Data Arrived at EDR: 02/19/2016	Telephone: 214-665-6597
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 01/26/2017
Number of Days to Update: 105	Next Scheduled EDR Contact: 05/08/2017
	Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 01/07/2016	Source: EPA Region 10
Date Data Arrived at EDR: 01/08/2016	Telephone: 206-553-2857
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 01/26/2017
Number of Days to Update: 41	Next Scheduled EDR Contact: 05/08/2017
	Data Release Frequency: Quarterly

HIST LUST: Underground Storage Tank Case History Incidents

This listing includes detailed information for Leaking Underground Storage Tanks reported through November 1999. It is no longer updated. Current LUST incidents, without detail, can be found in the Leaking Underground Storage Tank Database

Date of Government Version: 11/01/1999	Source: Department of Environmental Quality
Date Data Arrived at EDR: 02/16/2000	Telephone: N/A
Date Made Active in Reports: 05/01/2000	Last EDR Contact: 12/04/2001
Number of Days to Update: 75	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010	Source: FEMA
Date Data Arrived at EDR: 02/16/2010	Telephone: 202-646-5797
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 01/23/2017
Number of Days to Update: 55	Next Scheduled EDR Contact: 04/24/2017
	Data Release Frequency: Varies

UST: Louisiana Underground Storage Tank Database

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 10/18/2016	Source: Department of Environmental Quality
Date Data Arrived at EDR: 10/21/2016	Telephone: 225-219-3181
Date Made Active in Reports: 01/09/2017	Last EDR Contact: 01/12/2017
Number of Days to Update: 80	Next Scheduled EDR Contact: 05/01/2017
	Data Release Frequency: Quarterly

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 12/03/2015	Source: EPA Region 6
Date Data Arrived at EDR: 02/04/2016	Telephone: 214-665-7591
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 01/26/2017
Number of Days to Update: 120	Next Scheduled EDR Contact: 05/08/2017
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014	Source: EPA Region 7
Date Data Arrived at EDR: 11/25/2014	Telephone: 913-551-7003
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 01/26/2017
Number of Days to Update: 65	Next Scheduled EDR Contact: 05/08/2017
	Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/20/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 10/29/2015	Telephone: 617-918-1313
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 01/26/2017
Number of Days to Update: 67	Next Scheduled EDR Contact: 05/08/2017
	Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 02/05/2016	Source: EPA Region 4
Date Data Arrived at EDR: 04/29/2016	Telephone: 404-562-9424
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 01/24/2017
Number of Days to Update: 35	Next Scheduled EDR Contact: 05/08/2017
	Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/05/2015	Source: EPA Region 5
Date Data Arrived at EDR: 11/13/2015	Telephone: 312-886-6136
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 01/26/2017
Number of Days to Update: 52	Next Scheduled EDR Contact: 05/08/2017
	Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 01/07/2016	Source: EPA Region 10
Date Data Arrived at EDR: 01/08/2016	Telephone: 206-553-2857
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 01/26/2017
Number of Days to Update: 41	Next Scheduled EDR Contact: 05/08/2017
	Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 02/25/2016	Source: EPA Region 9
Date Data Arrived at EDR: 04/27/2016	Telephone: 415-972-3368
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 01/26/2017
Number of Days to Update: 37	Next Scheduled EDR Contact: 05/08/2017
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 01/26/2016	Source: EPA Region 8
Date Data Arrived at EDR: 02/05/2016	Telephone: 303-312-6137
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 01/26/2017
Number of Days to Update: 119	Next Scheduled EDR Contact: 05/08/2017
	Data Release Frequency: Quarterly

State and tribal institutional control / engineering control registries

AUL: Listing of Institutional and/or Engineering Controls

A notice of contamination (nature and levels of contaminants) and restriction of property to non-residential use are placed in the conveyance records for the property.

Date of Government Version: 10/18/2010	Source: Department of Environmental Quality
Date Data Arrived at EDR: 11/04/2010	Telephone: 225-219-3168
Date Made Active in Reports: 11/12/2010	Last EDR Contact: 01/09/2017
Number of Days to Update: 8	Next Scheduled EDR Contact: 04/24/2017
	Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 12/27/2016
Number of Days to Update: 142	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Varies

VCP: Voluntary Remediation Program Sites

Sites that have entered the Department of Environmental Quality's Voluntary Remediation Program

Date of Government Version: 10/11/2016	Source: Department of Environmental Quality
Date Data Arrived at EDR: 10/18/2016	Telephone: 225-219-3181
Date Made Active in Reports: 12/21/2016	Last EDR Contact: 01/12/2017
Number of Days to Update: 64	Next Scheduled EDR Contact: 05/01/2017
	Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Inventory

Brownfields are abandoned, idled, or underused industrial or commercial real property, the expansion, redevelopment or reuse of which may be complicated by the presence of or potential presence of a hazardous substance, pollutant, or contaminant.

Date of Government Version: 10/18/2016	Source: Department of Environmental Quality
Date Data Arrived at EDR: 10/21/2016	Telephone: 225-219-3167
Date Made Active in Reports: 12/21/2016	Last EDR Contact: 01/12/2017
Number of Days to Update: 61	Next Scheduled EDR Contact: 05/01/2017
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

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. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/19/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/20/2016	Telephone: 202-566-2777
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 12/20/2016
Number of Days to Update: 52	Next Scheduled EDR Contact: 04/03/2017
	Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Recycling Directory

A listing of recycling facilities.

Date of Government Version: 09/14/2010	Source: Department of Environmental Quality
Date Data Arrived at EDR: 09/21/2010	Telephone: 225-219-3181
Date Made Active in Reports: 10/12/2010	Last EDR Contact: 12/09/2016
Number of Days to Update: 21	Next Scheduled EDR Contact: 03/27/2017
	Data Release Frequency: Semi-Annually

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 10/31/2016
Number of Days to Update: 52	Next Scheduled EDR Contact: 02/13/2017
	Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009	Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009	Telephone: 415-947-4219
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 01/23/2017
Number of Days to Update: 137	Next Scheduled EDR Contact: 05/08/2017
	Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Services, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 01/30/2017
Next Scheduled EDR Contact: 05/08/2017
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 09/30/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 36

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/29/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: No Update Planned

CDL: Clandestine Drug Lab

A list of residential real properties that have been reported as potentially contaminated.

Date of Government Version: 09/16/2016
Date Data Arrived at EDR: 09/20/2016
Date Made Active in Reports: 10/19/2016
Number of Days to Update: 29

Source: Department of Environmental Quality
Telephone: 225-219-5337
Last EDR Contact: 11/28/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Semi-Annually

DEL SHWS: Deleted Potential & Confirmed Sites

A listing of sites removed from the Potential and Confirmed Listing.

Date of Government Version: 10/18/2016
Date Data Arrived at EDR: 10/21/2016
Date Made Active in Reports: 12/21/2016
Number of Days to Update: 61

Source: Department of Environmental Quality
Telephone: 225-219-3168
Last EDR Contact: 01/12/2017
Next Scheduled EDR Contact: 05/01/2017
Data Release Frequency: Varies

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site 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.

Date of Government Version: 09/30/2016
Date Data Arrived at EDR: 12/05/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 67

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/29/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens

An Environmental Lien is a charge, security, or encumbrance upon title to a property to secure the payment of a cost, damage, debt, obligation, or duty arising out of response actions, cleanup, or other remediation of hazardous substances or petroleum products upon a property, including (but not limited to) liens imposed pursuant to CERCLA 42 USC ? 9607(1) and similar state or local laws. In other words: a lien placed upon a property's title due to an environmental condition.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/25/2015
Date Data Arrived at EDR: 10/20/2015
Date Made Active in Reports: 12/02/2015
Number of Days to Update: 43

Source: Department of Environmental Quality
Telephone: N/A
Last EDR Contact: 01/12/2017
Next Scheduled EDR Contact: 05/01/2017
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA 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.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/24/2017
Next Scheduled EDR Contact: 05/08/2017
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/28/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 37

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 12/28/2016
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Annually

SPILLS: Emergency Response Section Incidents

Spills and/or releases, to land, reported to the Emergency Response Section.

Date of Government Version: 08/24/2016
Date Data Arrived at EDR: 09/15/2016
Date Made Active in Reports: 10/19/2016
Number of Days to Update: 34

Source: Department of Environmental Quality
Telephone: 225-219-3620
Last EDR Contact: 02/13/2017
Next Scheduled EDR Contact: 05/29/2017
Data Release Frequency: Varies

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 10/30/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/07/2013
Number of Days to Update: 63

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: 214-665-6444
Last EDR Contact: 12/28/2016
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 07/08/2015	Telephone: 202-528-4285
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 12/08/2016
Number of Days to Update: 97	Next Scheduled EDR Contact: 03/20/2017
	Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 01/13/2017
Number of Days to Update: 62	Next Scheduled EDR Contact: 04/24/2017
	Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 01/13/2017
Number of Days to Update: 339	Next Scheduled EDR Contact: 04/24/2017
	Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/09/2011	Telephone: 615-532-8599
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 02/03/2017
Number of Days to Update: 54	Next Scheduled EDR Contact: 05/29/2017
	Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 10/11/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/16/2016	Telephone: 202-566-1917
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 11/16/2016
Number of Days to Update: 79	Next Scheduled EDR Contact: 02/27/2017
	Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/03/2017
Next Scheduled EDR Contact: 05/22/2017
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/10/2017
Next Scheduled EDR Contact: 05/22/2017
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/23/2016
Next Scheduled EDR Contact: 04/03/2017
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 133

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/22/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/23/2017
Next Scheduled EDR Contact: 05/08/2017
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/06/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 08/01/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/22/2016	Telephone: 202-564-8600
Date Made Active in Reports: 11/11/2016	Last EDR Contact: 01/23/2017
Number of Days to Update: 81	Next Scheduled EDR Contact: 05/08/2017
	Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 10/17/2014	Telephone: 202-564-6023
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 02/10/2017
Number of Days to Update: 3	Next Scheduled EDR Contact: 05/22/2017
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2016	Source: EPA
Date Data Arrived at EDR: 04/28/2016	Telephone: 202-566-0500
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 01/13/2017
Number of Days to Update: 127	Next Scheduled EDR Contact: 04/24/2017
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-5088
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 01/09/2017
Number of Days to Update: 79	Next Scheduled EDR Contact: 04/24/2017
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 11/17/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 11/17/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 02/03/2017
Next Scheduled EDR Contact: 05/22/2017
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 12/06/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 12/06/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 01/29/2016
Next Scheduled EDR Contact: 05/08/2017
Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/04/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/06/2017	Telephone: 202-343-9775
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 01/06/2017
Number of Days to Update: 35	Next Scheduled EDR Contact: 04/17/2017
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 08/07/2012	Telephone: 202-366-4595
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 02/01/2017
Number of Days to Update: 42	Next Scheduled EDR Contact: 05/08/2017
	Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2016	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 11/18/2016	Telephone: Varies
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 01/23/2017
Number of Days to Update: 77	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2013	Source: EPA/NTIS
Date Data Arrived at EDR: 02/24/2015	Telephone: 800-424-9346
Date Made Active in Reports: 09/30/2015	Last EDR Contact: 11/23/2016
Number of Days to Update: 218	Next Scheduled EDR Contact: 03/06/2017
	Data Release Frequency: Biennially

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014	Source: USGS
Date Data Arrived at EDR: 07/14/2015	Telephone: 202-208-3710
Date Made Active in Reports: 01/10/2017	Last EDR Contact: 01/13/2017
Number of Days to Update: 546	Next Scheduled EDR Contact: 04/24/2017
	Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/21/2016	Source: Department of Energy
Date Data Arrived at EDR: 07/26/2016	Telephone: 202-586-3559
Date Made Active in Reports: 09/23/2016	Last EDR Contact: 02/03/2017
Number of Days to Update: 59	Next Scheduled EDR Contact: 05/22/2017
	Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010	Source: Department of Energy
Date Data Arrived at EDR: 10/07/2011	Telephone: 505-845-0011
Date Made Active in Reports: 03/01/2012	Last EDR Contact: 09/09/2016
Number of Days to Update: 146	Next Scheduled EDR Contact: 12/05/2016
	Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/05/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/05/2017	Telephone: 703-603-8787
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 01/05/2017
Number of Days to Update: 36	Next Scheduled EDR Contact: 04/17/2017
	Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 12/22/2016
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 12/22/2016
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/05/2016
Date Data Arrived at EDR: 09/01/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 22

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 12/01/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 12/12/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 12/02/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/15/2016
Date Data Arrived at EDR: 09/07/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 65

Source: EPA
Telephone: (214) 665-2200
Last EDR Contact: 12/06/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 06/02/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/03/2016	Telephone: 202-564-0527
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 11/28/2016
Number of Days to Update: 91	Next Scheduled EDR Contact: 03/13/2017
	Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015	Source: Department of Defense
Date Data Arrived at EDR: 01/29/2016	Telephone: 571-373-0407
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 01/20/2017
Number of Days to Update: 67	Next Scheduled EDR Contact: 05/01/2017
	Data Release Frequency: Varies

AIRS: Air Permit List

A listing of facilities with air permits issued by the Air Permits Division

Date of Government Version: 11/17/2016	Source: Department of Environmental Quality
Date Data Arrived at EDR: 12/09/2016	Telephone: 225-219-3417
Date Made Active in Reports: 12/21/2016	Last EDR Contact: 02/13/2017
Number of Days to Update: 12	Next Scheduled EDR Contact: 05/29/2017
	Data Release Frequency: Varies

ASBESTOS: Asbestos Projects List

Asbestos demolition and renovation notification projects locations in the state.

Date of Government Version: 12/31/2015	Source: Department of Environmental Quality
Date Data Arrived at EDR: 04/20/2016	Telephone: 225-219-3181
Date Made Active in Reports: 07/01/2016	Last EDR Contact: 01/20/2017
Number of Days to Update: 72	Next Scheduled EDR Contact: 05/01/2017
	Data Release Frequency: Annually

COAL ASH: Coal Ash Disposal Sites

A listing of coal ash impoundments.

Date of Government Version: 07/13/2015	Source: Department of Environmental Quality
Date Data Arrived at EDR: 08/04/2015	Telephone: 225-219-3168
Date Made Active in Reports: 08/24/2015	Last EDR Contact: 01/09/2017
Number of Days to Update: 20	Next Scheduled EDR Contact: 04/24/2017
	Data Release Frequency: Varies

DRYCLEANERS: Drycleaner Facility Listing

A listing of drycleaner facilities.

Date of Government Version: 10/07/2016	Source: Department of Environmental Quality
Date Data Arrived at EDR: 10/18/2016	Telephone: 225-219-3168
Date Made Active in Reports: 12/21/2016	Last EDR Contact: 01/12/2017
Number of Days to Update: 64	Next Scheduled EDR Contact: 05/01/2017
	Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information

Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay

Date of Government Version: 11/04/2016	Source: Department of Environmental Quality
Date Data Arrived at EDR: 11/29/2016	Telephone: 225-219-3168
Date Made Active in Reports: 12/21/2016	Last EDR Contact: 01/23/2017
Number of Days to Update: 22	Next Scheduled EDR Contact: 05/08/2017
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Financial Assurance 2: Financial Assurance Information Listing

Information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay

Date of Government Version: 11/04/2016
Date Data Arrived at EDR: 11/29/2016
Date Made Active in Reports: 12/21/2016
Number of Days to Update: 22

Source: Department of Environmental Quality
Telephone: 225-219-3168
Last EDR Contact: 01/23/2017
Next Scheduled EDR Contact: 05/08/2017
Data Release Frequency: Varies

NPDES: LPDES Permits Database

A listing of sites with a Louisiana Pollutant Discharge Elimination System (LPDES) program issued permit.

Date of Government Version: 10/24/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 12/21/2016
Number of Days to Update: 56

Source: Department of Environmental Quality
Telephone: 225-219-3181
Last EDR Contact: 01/23/2017
Next Scheduled EDR Contact: 05/08/2017
Data Release Frequency: Varies

REM: Division of Remediation Services Database

Facilities or sites come to the Underground Storage Tank and Remediation Division either through self notification or referral. These sites are designated for remediation via the following regulatory paths: Solid Waste (SW), Hazardous Waste (Haz Waste), Groundwater (Grwater), Inactive & Abandoned Sites (Confirmed or Potential), or Underground Storage Tanks (UST).

Date of Government Version: 10/18/2016
Date Data Arrived at EDR: 10/21/2016
Date Made Active in Reports: 12/21/2016
Number of Days to Update: 61

Source: Department of Environmental Quality
Telephone: 225-219-3168
Last EDR Contact: 01/12/2017
Next Scheduled EDR Contact: 05/01/2017
Data Release Frequency: Quarterly

UIC: Underground Injection Wells Listing

A listing of underground injection well locations.

Date of Government Version: 07/08/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 08/24/2016
Number of Days to Update: 43

Source: Department of Natural Resources
Telephone: 225-342-5515
Last EDR Contact: 12/27/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by 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.

Date of Government Version: 06/09/2016
Date Data Arrived at EDR: 06/13/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 81

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 12/09/2016
Next Scheduled EDR Contact: 03/27/2017
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/18/2016
Date Data Arrived at EDR: 09/20/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 12/20/2016
Next Scheduled EDR Contact: 04/03/2017
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 11/21/2016

Date Data Arrived at EDR: 11/22/2016

Date Made Active in Reports: 02/03/2017

Number of Days to Update: 73

Source: EPA

Telephone: 800-385-6164

Last EDR Contact: 11/22/2016

Next Scheduled EDR Contact: 03/06/2017

Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A

Date Data Arrived at EDR: N/A

Date Made Active in Reports: N/A

Number of Days to Update: N/A

Source: EDR, Inc.

Telephone: N/A

Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A

Date Data Arrived at EDR: N/A

Date Made Active in Reports: N/A

Number of Days to Update: N/A

Source: EDR, Inc.

Telephone: N/A

Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A

Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A

Date Data Arrived at EDR: N/A

Date Made Active in Reports: N/A

Number of Days to Update: N/A

Source: EDR, Inc.

Telephone: N/A

Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A

Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Louisiana.

Date of Government Version: N/A	Source: Department of Environmental Quality
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/03/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 186	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Louisiana.

Date of Government Version: N/A	Source: Department of Environmental Quality
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/15/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 198	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Louisiana.

Date of Government Version: N/A	Source: Department of Environmental Quality
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/03/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 186	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 08/19/2013	Telephone: 860-424-3375
Date Made Active in Reports: 10/03/2013	Last EDR Contact: 11/11/2016
Number of Days to Update: 45	Next Scheduled EDR Contact: 02/27/2017
	Data Release Frequency: No Update Planned

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/30/2017
Date Data Arrived at EDR: 02/01/2017
Date Made Active in Reports: 02/13/2017
Number of Days to Update: 12

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 02/01/2017
Next Scheduled EDR Contact: 05/08/2017
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 07/22/2016
Date Made Active in Reports: 11/22/2016
Number of Days to Update: 123

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/12/2017
Next Scheduled EDR Contact: 05/01/2017
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 04/14/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 50

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/12/2016
Next Scheduled EDR Contact: 03/27/2017
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data

Source: PennWell Corporation

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health
Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK® - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

SOUTH TRACT
321 US HIGHWAY 80 EAST
CALHOUN, LA 71225

TARGET PROPERTY COORDINATES

Latitude (North):	32.511111 - 32° 30' 40.00"
Longitude (West):	92.344444 - 92° 20' 40.00"
Universal Transverse Mercator:	Zone 15
UTM X (Meters):	561576.7
UTM Y (Meters):	3597090.8
Elevation:	146 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5630395 CALHOUN, LA
Version Date:	2012
South Map:	5630393 CADEVILLE, LA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

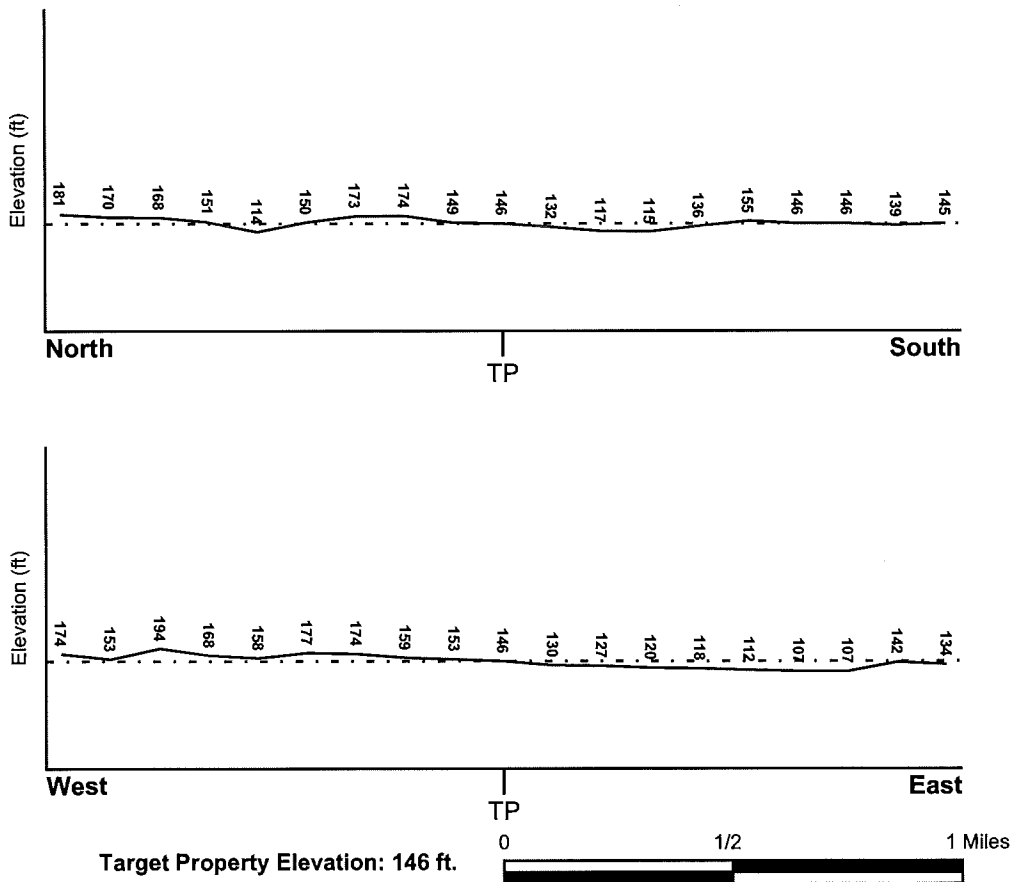
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SSE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property

22111C0625D

FEMA Source Type

FEMA FIRM Flood data

Additional Panels in search area:

22073C0060E

FEMA Source Type

FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property

NOT AVAILABLE

NWI Electronic

Data Coverage

YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius: 1.25 miles
Status: Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

GEOLOGIC AGE IDENTIFICATION

Era:	Cenozoic
System:	Tertiary
Series:	Eocene Claiborne Group
Code:	Te2 (decoded above as Era, System & Series)

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: SAVANNAH

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained. Soils have a layer of low hydraulic conductivity, wet state high in the profile. Depth to water table is 3 to 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: MODERATE

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 2.00 Min: 0.60	Max: 5.50 Min: 3.60
2	11 inches	28 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 5.50 Min: 3.60
3	28 inches	68 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 5.50 Min: 3.60

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: No Other Soil Types

Surficial Soil Types: No Other Soil Types

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: sandy clay loam

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	USGS40000413975	1/8 - 1/4 Mile NNW
C7	USGS40000413994	1/4 - 1/2 Mile NNE
C8	USGS40000413995	1/4 - 1/2 Mile NNE
D9	USGS40000413915	1/4 - 1/2 Mile SE
E13	USGS40000413904	1/4 - 1/2 Mile South
D15	USGS40000413912	1/2 - 1 Mile SE
F17	USGS40000413971	1/2 - 1 Mile WNW
G19	USGS40000413903	1/2 - 1 Mile SE
H20	USGS40000413874	1/2 - 1 Mile SSE
I23	USGS40000413875	1/2 - 1 Mile SSE
I24	USGS40000413873	1/2 - 1 Mile SSE
J30	USGS40000413942	1/2 - 1 Mile West
K32	USGS40000413855	1/2 - 1 Mile SE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
B3	LA1073034	1/8 - 1/4 Mile NW

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	LATD40000122666	1/8 - 1/4 Mile NNW
B4	1073034001	1/4 - 1/2 Mile NW
C5	LATD40000056171	1/4 - 1/2 Mile NNE
C6	LATD40000157476	1/4 - 1/2 Mile NNE
D10	LATD40000055283	1/4 - 1/2 Mile SE
E11	LATD40000131293	1/4 - 1/2 Mile South
12	LATD40000057773	1/4 - 1/2 Mile WSW
E14	LATD40000055282	1/4 - 1/2 Mile South
D16	LATD40000156869	1/2 - 1 Mile SE
F18	LATD40000057066	1/2 - 1 Mile WNW
G21	LATD40000156102	1/2 - 1 Mile SE
H22	LATD40000116318	1/2 - 1 Mile SSE
I25	LATD40000055281	1/2 - 1 Mile SSE
I26	LATD40000198173	1/2 - 1 Mile SSE
27	1073006001	1/2 - 1 Mile West
J28	LATD40000054755	1/2 - 1 Mile West
J29	LATD40000055579	1/2 - 1 Mile West
J31	1073006002	1/2 - 1 Mile West
K33	LATD40000192721	1/2 - 1 Mile SE
34	LATD40000197990	1/2 - 1 Mile NNW

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

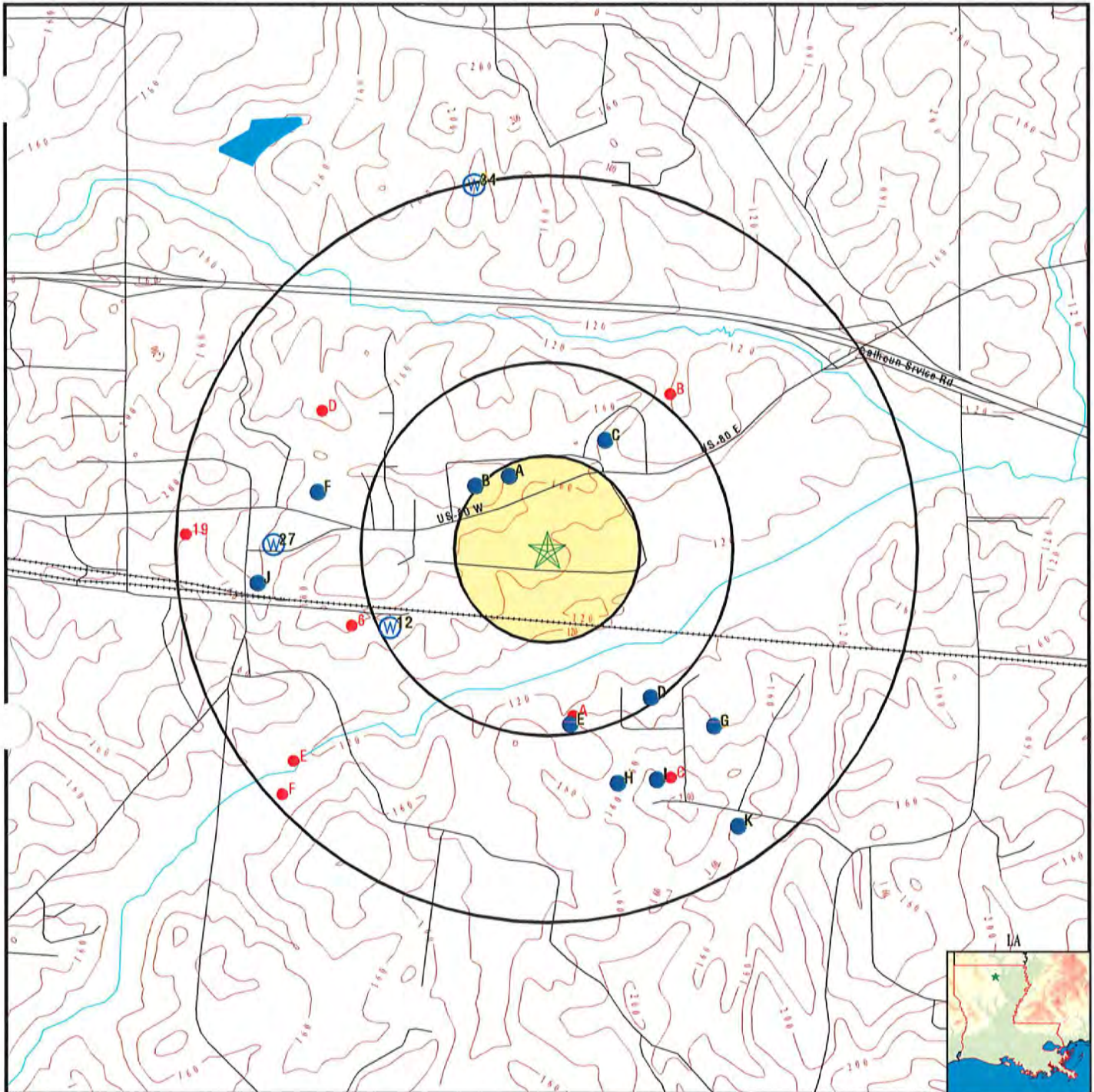
MAP ID	WELL ID	LOCATION FROM TP
A1	LAOG90000163941	1/4 - 1/2 Mile South

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	LAOG90000220196	1/4 - 1/2 Mile South
B3	LAOG90000050391	1/2 - 1 Mile NE
B5	LAOG90000085806	1/2 - 1 Mile NE
B4	LAOG90000049006	1/2 - 1 Mile NE
6	LAOG90000055503	1/2 - 1 Mile WSW
C7	LAOG90000047624	1/2 - 1 Mile SSE
C8	LAOG90000048057	1/2 - 1 Mile SSE
D9	LAOG90000050262	1/2 - 1 Mile WNW
D10	LAOG90000052653	1/2 - 1 Mile WNW
D11	LAOG90000047730	1/2 - 1 Mile WNW
D12	LAOG90000053950	1/2 - 1 Mile WNW
E14	LAOG90000058330	1/2 - 1 Mile SW
E13	LAOG90000055740	1/2 - 1 Mile SW
E15	LAOG90000088620	1/2 - 1 Mile SW
F17	LAOG90000050033	1/2 - 1 Mile SW
F16	LAOG90000044558	1/2 - 1 Mile SW
F18	LAOG90000162013	1/2 - 1 Mile SW
19	LAOG90000218003	1/2 - 1 Mile West

PHYSICAL SETTING SOURCE MAP - 4854246.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

0 1/4 1/2 1 Miles



SITE NAME: South Tract
ADDRESS: 321 US Highway 80 East
 Calhoun LA 71225
LAT/LONG: 32.511111 / 92.344444

CLIENT: PPM Consultants Inc.
CONTACT: Jordan Harper
INQUIRY #: 4854246.2s
DATE: February 14, 2017 6:01 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A1

NNW

1/8 - 1/4 Mile

Higher

LA WELLS

LATD40000122666

Water wel1:	464047	State code:	22
Water wel2:	073-149	Local well:	149
Parish num:	073	Latitude:	323050
Identifica:	323050092204601	Sequence n:	01
Longitude:	922046	Well depth:	567
Owners nam:	LSU EXP STATION	Well subus:	Not Reported
Well use:	I	Geologic u:	124SPRT
Date compl:	10/45		
Available :	Driller Log, Water Level		
Revised la:	Not Reported	Revised lo:	Not Reported
Elec log:	Not Reported	Drill log:	D
Mechanic a:	Not Reported	Chem analy:	Not Reported
Bio analys:	Not Reported	Pump test:	Not Reported
Avail info:	W	Drillers 1:	L & R DRLG
Drillers 2:	000	Section:	027
Township:	18N	Range:	01E
Hole depth:	570	Elevation:	184
Quad num:	034D	Water leve:	160.00
Date measu:	10/01/45	Source of :	Z
Date of ad:	1996-10-17	Date regis:	12/77
Date plugg:	Not Reported	Plugged b1:	Not Reported
Plugged b2:	Not Reported	Yield:	110
Drawdown:	Not Reported	Casing di1:	6X4
Casing mat:	Not Reported	Screen di1:	4
Screen int:	537-567	Serial num:	Not Reported
Owners num:	N LA STA	Latitude d:	0
Latitude m:	0		
Latitude s:	0		
Longitude1:	0	Longitude2:	0
Longitude3:	Not Reported		
Create dat:	2010 720	Create use:	SONRIS_DBA
Update dat:	2012 130	Update use:	SONRIS_DBA
Parish cod:	37	Industria1:	Not Reported
Owner stat:	Not Reported	Replacemen:	Not Reported
Industria2:	Not Reported	Public su1:	Not Reported
Public su2:	Not Reported	Pumpdown c:	Not Reported
Extension1:	Not Reported	Extension2:	Not Reported
Extension3:	Not Reported	Screen typ:	Not Reported
Gravel pac:	N	Ground eve:	Not Reported
Diameter o:	Not Reported	Site city:	Not Reported
Site zip:	Not Reported	Site addre:	Not Reported
Remarks:	Not Reported		
Authorize1:	Not Reported	Authorize2:	0
Heat pump1:	0		
Heat pump2:	Not Reported	Location I:	Not Reported
Location m:	0		
Location c:	Not Reported	Cemented f:	Not Reported
Slot lengt:	Not Reported	Slot size:	Not Reported
Inspector:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Inspector :	Not Reported	Pump setti:	Not Reported
Inspection:	0	Pump plan1:	0
Pump motor:	Not Reported	Pump plan3:	Not Reported
Pump plan2:	0	Yield meas:	Not Reported
Pump rate:	Not Reported	Pump hour2:	0
Pump hour1:	0	Pump deter:	Not Reported
Pump stati:	Not Reported	Pump test :	0
Pump groun:	Not Reported		
X longdd:	-92.34611111		
Y latdd:	32.51388889		
Pump down :	Not Reported		
Pa remarks:	Not Reported	Pa signat2:	0
Pa signat1:	Not Reported		
Pa details:	Not Reported	Casing len:	Not Reported
Casing di2:	Not Reported	Casing di3:	Not Reported
Contact:	Not Reported		
Screen di2:	Not Reported		
Wwo seq nu:	0	Parish nam:	OUACHITA
Screen di3:	Not Reported		
Aquifer na:	SPARTA AQUIFER	Site id:	LATD40000122666
Use descri:	irrigation		
Well statu:	Active		

A2
NNW
1/8 - 1/4 Mile
Higher

FED USGS USGS40000413975

Org. Identifier:	USGS-LA	Drainagearea value:	Not Reported
Formal name:	USGS Louisiana Water Science Center	Contrib drainagearea:	Not Reported
Monloc Identifier:	USGS-323050092204601	Latitude:	32.5140355
Monloc name:	Ou- 149	Sourcemap scale:	62500
Monloc type:	Well	Horiz Acc measure units:	seconds
Monloc desc:	Not Reported		
Huc code:	08040207	Vert measure val:	184.30
Drainagearea Units:	Not Reported	Vertacc measure val:	.1
Contrib drainagearea units:	Not Reported		
Longitude:	-92.3462518	Countrycode:	US
Horiz Acc measure:	1		
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83		
Vert measure units:	feet		
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29		
Aquifername:	Mississippi embayment aquifer system		
Formation type:	Sparta Sand		
Aquifer type:	Confined single aquifer	Welldepth:	567
Construction date:	19451001	Wellholedepth:	570
Welldepth units:	ft		
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1945-10-01	160.00	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

B3

NW

1/8 - 1/4 Mile

Higher

FRDS PWS

LA1073034

Epa region:	06	State:	LA
Pwsid:	LA1073034		
Pwsname:	CALHOUN RESEARCH STA.WS		
City served:	Not Reported	State served:	LA
Zip served:	Not Reported	Fips county:	22073
Status:	Closed	Pop srvd:	14
Pwssvcconn:	6	Source:	Groundwater
Pws type:	CWS	Owner:	Private
Contact:	CALHOUN RESEARCH STATION		
Contact gname:	Not Reported		
Contact phone:	318-644-5886	Contact address1:	CALHOUN RESEARCH STATION
Contact address2:	P. O. BOX 539	Contact city:	CALHOUN
Contact state:	LA	Contact zip:	71225
Activity code:	N		

Facid:	3744		
Facname:	WELL #1		
Facility type:	Treatment_plant	Activity code:	I
Treatment obj:	disinfection	Treatment process:	hypochlorination, post

Location Information:

Name:	CALHOUN RESEARCH STA.WS		
Pwstypcd:	CWS	Prmsrccd:	GW
Poserved:	14		
Add1:	CALHOUN RESEARCH STATION		
Add2:	P. O. BOX 539		
City:	CALHOUN	State:	LA
Zip:	71225	Phone:	318-644-5886
Cityserv:	Not Reported	Cnty serv:	Not Reported
Stateserv:	LA	Zip serv:	Not Reported

Enforcement Information:

Violation id:	1V00	Orig cd:	F
Enf fy:	2001	Enf act date:	10/20/2000
Enf act detail:	Fed Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	1V00	Orig cd:	F
Enf fy:	2000	Enf act date:	04/11/2000
Enf act detail:	Fed Formal NOV issued	Enf act cat:	Informal

Enforcement Information:

Violation id:	1V00	Orig cd:	F
Enf fy:	2000	Enf act date:	05/16/2000
Enf act detail:	Fed FAO issued	Enf act cat:	Formal

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Violations Information:

Violation id:	1V00	Orig cd:	F
State:	LA	Viol fy:	1999
Contamcd:	7000		
Contamnm:	Consumer Confidence Rule		
Viol code:	71		
Viol name:	CCR Complete Failure to Report		
Rule code:	420		
Rule name:	CCR		
Violmeasur:	0	Unitmeasur:	Not Reported
State mcl:	0	Cmpbdt:	10/19/1999
Cmpedt:	10/20/2000		

PWS ID: LA1073034
Date Initiated: Not Reported Date Deactivated: Not Reported
PWS Name: CALHOUN RESEARCH STA.WS
321 HIGHWAY 80 EAST
CALHOUN, LA 71225

Addressee / Facility: Operator
DR. RON ROBBINS, RESIDENT DIR.

Addressee / Facility: System Owner/Responsible Party
AFTER HOURS

Facility Latitude:	32 30 48.0000	Facility Longitude:	92 20 51.0000
City Served:	Not Reported		
Treatment Class:	Treated	Population:	48

Violations information not reported.

ENFORCEMENT INFORMATION:

System Name:	CALHOUN RESEARCH STA.WS		
Violation Type:	CCR Complete Failure to Report		
Contaminant:	7000		
Compliance Period:	1999-10-19 - 2015-12-31		
Violation ID:	00V0001		
Enforcement Date:	2000-04-11	Enf. Action:	Fed Formal NOV Issued

System Name:	CALHOUN RESEARCH STA.WS		
Violation Type:	CCR Complete Failure to Report		
Contaminant:	7000		
Compliance Period:	1999-10-19 - 2015-12-31		
Violation ID:	00V0001		
Enforcement Date:	2000-05-16	Enf. Action:	Fed FAO Issued

System Name:	CALHOUN RESEARCH STA.WS		
Violation Type:	CCR Complete Failure to Report		
Contaminant:	7000		
Compliance Period:	1999-10-19 - 2015-12-31		
Violation ID:	00V0001		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported

B4
NW
1/4 - 1/2 Mile
Higher

LA WELLS 1073034001

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Site Name:	WELL #1		
Site ID:	001	Source:	SPARTA
Public Water Sys. ID:	1073034	Total Depth:	0525
Latitude/Longitude:	3230487 / 9220517	Capacity:	110
Diameter:	Not Reported		
Supply Name:	CALHOUN RESEARCH STA.WS		
	P. O. BOX 539		
	CALHOUN, LA 71225		
Parish:	OUACHITA	FIPS County Code:	073
Owner:	CALHOUN RESEARCH STATION	System Type:	Comm
Contact1:	DR. RON ROBBINS, RESIDENT DIR.		
Telephone1:	(318) 644 - 5886		
Contact2:	AFTER HOURS		
Telephone2:	(318) 644 - 2662		

C5
NNE
1/4 - 1/2 Mile
Higher

LA WELLS LATD40000056171

Water well1:	463958	State code:	22
Water well2:	073-66	Local well:	66
Parish num:	073	Latitude:	323055
Identifica:	323055092203001	Sequence n:	01
Longitude:	922030	Well depth:	558
Owners nam:	LSU EXP STATION	Well subus:	PA
Well use:	Z	Geologic u:	124SPRT
Date compl:	Not Reported		
Available :	Driller Log, Quality of Water, Water Level		
Revised la:	Not Reported	Revised lo:	Not Reported
Elec log:	Not Reported	Drill log:	D
Mechanic a:	Not Reported	Chem analy:	Q
Bio analys:	Not Reported	Pump test:	Not Reported
Avail info:	W	Drillers 1:	HART WELL CO
Drillers 2:	000	Section:	026
Township:	18N	Range:	01E
Hole depth:	558	Elevation:	160
Quad num:	034D	Water leve:	70.00
Date measu:	04/30/06	Source of :	Z
Date of ad:	1998-03-06	Date regis:	Not Reported
Date plugg:	05/84	Plugged b1:	HARGROVE
Plugged b2:	268	Yield:	Not Reported
Drawdown:	Not Reported	Casing di1:	4
Casing mat:	STEEL	Screen di1:	Not Reported
Screen int:	Not Reported	Serial num:	Not Reported
Owners num:	CALHOUN	Latitude d:	0
Latitude m:	0		
Latitude s:	0		
Longitude1:	0	Longitude2:	0
Longitude3:	Not Reported		
Create dat:	2010 720	Create use:	SONRIS_DBA
Update dat:	2012 130	Update use:	SONRIS_DBA
Parish cod:	37	Industria1:	Not Reported
Owner stat:	Not Reported	Replacemen:	Not Reported
Industria2:	Not Reported	Public su1:	Not Reported
Public su2:	Not Reported	Pumpdown c:	Not Reported
Extension1:	Not Reported	Extension2:	Not Reported
Extension3:	Not Reported	Screen typ:	Not Reported
Gravel pac:	N	Ground eve:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Diameter o:	Not Reported	Site city:	Not Reported
Site zip:	Not Reported	Site addre:	Not Reported
Remarks:	Not Reported		
Authorize1:	Not Reported	Authorize2:	0
Heat pump1:	0		
Heat pump2:	Not Reported	Location l:	Not Reported
Location m:	0		
Location c:	Not Reported	Cemented f:	Not Reported
Slot lengt:	Not Reported	Slot size:	Not Reported
Inspector:	Not Reported		
Inspector :	Not Reported		
Inspection:	0	Pump setti:	Not Reported
Pump motor:	Not Reported	Pump plan1:	0
Pump plan2:	0	Pump plan3:	Not Reported
Pump rate:	Not Reported	Yield meas:	Not Reported
Pump hour1:	0	Pump hour2:	0
Pump stati:	Not Reported	Pump deter:	Not Reported
Pump groun:	Not Reported	Pump test :	0
X longdd:	-92.34166667		
Y latdd:	32.51527778		
Pump down :	Not Reported		
Pa remarks:	Not Reported	Pa signat2:	0
Pa signat1:	Not Reported		
Pa details:	Not Reported	Casing len:	Not Reported
Casing di2:	Not Reported	Casing di3:	Not Reported
Contact:	Not Reported		
Screen di2:	Not Reported		
Wwo seq nu:	0	Parish nam:	OUACHITA
Screen di3:	Not Reported		
Aquifer na:	SPARTA AQUIFER		
Use descri:	plugged and abandoned	Site id:	LATD40000056171
Well statu:	Plugged and Abandoned		

C6
NNE
1/4 - 1/2 Mile
Higher

LA WELLS LATD40000157476

Water wel1:	464048	State code:	22
Water wel2:	073-150	Local well:	150
Parish num:	073	Latitude:	323055
Identifica:	323055092203002	Sequence n:	02
Longitude:	922030	Well depth:	558
Owners nam:	LSU EXP STATION	Well subus:	PA
Well use:	Z	Geologic u:	124SPRT
Date compl:	1906		
Available :	Driller Log	Revised lo:	Not Reported
Revised la:	Not Reported	Drill log:	D
Elec log:	Not Reported	Chem analy:	Not Reported
Mechanic a:	Not Reported	Pump test:	Not Reported
Bio analys:	Not Reported	Drillers 1:	HART WELL CO
Avail info:	Not Reported	Section:	027
Drillers 2:	000	Range:	01E
Township:	18N	Elevation:	184
Hole depth:	558	Water leve:	0.00
Quad num:	034D	Source of :	Not Reported
Date measu:	Not Reported	Date regis:	Not Reported
Date of ad:	1999-05-24		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Date plugg:	1945	Plugged b1:	UNKNOWN
Plugged b2:	000	Yield:	Not Reported
Drawdown:	Not Reported	Casing di1:	4
Casing mat:	Not Reported	Screen di1:	Not Reported
Screen int:	Not Reported	Serial num:	Not Reported
Owners num:	N LA STA	Latitude d:	0
Latitude m:	0		
Latitude s:	0		
Longitude1:	0	Longitude2:	0
Longitude3:	Not Reported		
Create dat:	2010 720	Create use:	SONRIS_DBA
Update dat:	2012 130	Update use:	SONRIS_DBA
Parish cod:	37	Industria1:	Not Reported
Owner stat:	Not Reported	Replacemen:	Not Reported
Industria2:	Not Reported	Public su1:	Not Reported
Public su2:	Not Reported	Pumpdown c:	Not Reported
Extension1:	Not Reported	Extension2:	Not Reported
Extension3:	Not Reported	Screen typ:	Not Reported
Gravel pac:	N	Ground eve:	Not Reported
Diameter o:	Not Reported	Site city:	Not Reported
Site zip:	Not Reported	Site addre:	Not Reported
Remarks:	Not Reported		
Authorize1:	Not Reported	Authorize2:	0
Heat pump1:	0		
Heat pump2:	Not Reported	Location I:	Not Reported
Location m:	0		
Location c:	Not Reported	Cemented f:	Not Reported
Slot lengt:	Not Reported	Slot size:	Not Reported
Inspector:	Not Reported		
Inspector :	Not Reported		
Inspection:	0	Pump setti:	Not Reported
Pump motor:	Not Reported	Pump plan1:	0
Pump plan2:	0	Pump plan3:	Not Reported
Pump rate:	Not Reported	Yield meas:	Not Reported
Pump hour1:	0	Pump hour2:	0
Pump stat1:	Not Reported	Pump deter:	Not Reported
Pump groun:	Not Reported	Pump test :	0
X longdd:	-92.34166667		
Y latdd:	32.51527778		
Pump down :	Not Reported		
Pa remarks:	Not Reported	Pa signat2:	0
Pa signat1:	Not Reported		
Pa details:	Not Reported	Casing len:	Not Reported
Casing di2:	Not Reported	Casing di3:	Not Reported
Contact:	Not Reported		
Screen di2:	Not Reported		
Wwo seq nu:	0	Parish nam:	OUACHITA
Screen di3:	Not Reported		
Aquifer na:	SPARTA AQUIFER		
Use descri:	plugged and abandoned	Site id:	LATD40000157476
Well statu:	Plugged and Abandoned		

C7
NNE
1/4 - 1/2 Mile
Higher

FED USGS USGS40000413994

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Org. Identifier: USGS-LA
 Formal name: USGS Louisiana Water Science Center
 Monloc Identifier: USGS-323055092203001
 Monloc name: Ou- 66
 Monloc type: Well
 Monloc desc: Not Reported
 Huc code: 08040207
 Drainagearea Units: Not Reported
 Contrib drainagearea units: Not Reported
 Longitude: -92.3418073
 Horiz Acc measure: 5
 Horiz Collection method: Interpolated from map
 Horiz coord refs: NAD83
 Vert measure units: feet
 Vert accmeasure units: feet
 Vertcollection method: Interpolated from topographic map
 Vert coord refs: NGVD29
 Aquifername: Mississippi embayment aquifer system
 Formation type: Sparta Sand
 Aquifer type: Confined single aquifer
 Construction date: 19060430
 Welldepth units: ft
 Wellholedepth units: ft

Drainagearea value: Not Reported
 Contrib drainagearea: Not Reported
 Latitude: 32.5154243
 Sourcemap scale: 62500
 Horiz Acc measure units: seconds
 Vert measure val: 160.00
 Vertacc measure val: 10
 Countrycode: US
 Welldepth: 558
 Wellholedepth: 558

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1906-04-30	70.00	

C8
 NNE
 1/4 - 1/2 Mile
 Higher

FED USGS USGS40000413995

Org. Identifier: USGS-LA
 Formal name: USGS Louisiana Water Science Center
 Monloc Identifier: USGS-323055092203002
 Monloc name: Ou- 150
 Monloc type: Well
 Monloc desc: Not Reported
 Huc code: 08040207
 Drainagearea Units: Not Reported
 Contrib drainagearea units: Not Reported
 Longitude: -92.3418073
 Horiz Acc measure: 1
 Horiz Collection method: Interpolated from map
 Horiz coord refs: NAD83
 Vert measure units: feet
 Vert accmeasure units: feet
 Vertcollection method: Level or other surveying method
 Vert coord refs: NGVD29
 Aquifername: Mississippi embayment aquifer system
 Formation type: Sparta Sand

Drainagearea value: Not Reported
 Contrib drainagearea: Not Reported
 Latitude: 32.5154243
 Sourcemap scale: 62500
 Horiz Acc measure units: seconds
 Vert measure val: 184.30
 Vertacc measure val: .1
 Countrycode: US

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Confined single aquifer	Welldepth:	558
Construction date:	19060620	Wellholedepth:	558
Welldepth units:	ft		
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

D9

SE

1/4 - 1/2 Mile

Lower

FED USGS

USGS40000413915

Org. Identifier:	USGS-LA		
Formal name:	USGS Louisiana Water Science Center		
Monloc Identifier:	USGS-323020092202401		
Monloc name:	Ou- 533		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	08040207	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	32.5057024
Longitude:	-92.3401406	Sourcemap scale:	62500
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refs:	NAD83	Vert measure val:	120.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refs:	NGVD29	Countrycode:	US
Aquifername:	Mississippi embayment aquifer system		
Formation type:	Cockfield Formation of Claiborne Group		
Aquifer type:	Not Reported		
Construction date:	19810902	Welldepth:	36
Welldepth units:	ft	Wellholedepth:	41
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
------	-----------------------	---------------------

1981-09-02 7.35

Note: Other conditions existed that would affect the measured water level.

D10

SE

1/4 - 1/2 Mile

Lower

LA WELLS

LATD40000055283

Water wel1:	464436	State code:	22
Water wel2:	073-533	Local well:	533
Parish num:	073	Latitude:	323020
Identifica:	323020092202401	Sequence n:	01
Longitude:	922024	Well depth:	36
Owners nam:	U S GEOL SURVEY	Well subus:	D
Well use:	O	Geologic u:	124CCKF
Date compl:	09/81		
Available :	Driller Log, Quality of Water, Water Level		
Revised la:	Not Reported	Revised lo:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Elec log:	Not Reported	Drill log:	D
Mechanic a:	Not Reported	Chem analy:	Q
Bio analys:	Not Reported	Pump test:	Not Reported
Avail info:	W	Drillers 1:	U.S.G.S.
Drillers 2:	002	Section:	035
Township:	18N	Range:	01E
Hole depth:	41	Elevation:	120
Quad num:	034D	Water leve:	7.35
Date measu:	09/02/81	Source of :	A
Date of ad:	1998-10-23	Date regis:	Not Reported
Date plugg:	Not Reported	Plugged b1:	Not Reported
Plugged b2:	Not Reported	Yield:	Not Reported
Drawdown:	Not Reported	Casing di1:	1.25
Casing mat:	METAL	Screen di1:	1.25
Screen int:	33-36	Serial num:	Not Reported
Owners num:	8	Latitude d:	0
Latitude m:	0		
Latitude s:	0		
Longitude1:	0	Longitude2:	0
Longitude3:	Not Reported		
Comments:	WELL DESTROYED--SEE USGS FIELD REPORT DATED 07/27/98.		
Create dat:	2010 720	Create use:	SONRIS_DBA
Update dat:	2012 130	Update use:	SONRIS_DBA
Parish cod:	37	Industria1:	Not Reported
Owner stat:	Not Reported	Replacemen:	Not Reported
Industria2:	Not Reported	Public su1:	Not Reported
Public su2:	Not Reported	Pumpdown c:	Not Reported
Extension1:	Not Reported	Extension2:	Not Reported
Extension3:	Not Reported	Screen typ:	Not Reported
Gravel pac:	N	Ground eve:	Not Reported
Diameter o:	Not Reported	Site city:	Not Reported
Site zip:	Not Reported	Site addre:	Not Reported
Remarks:	Not Reported		
Authorize1:	Not Reported	Authorize2:	0
Heat pump1:	0		
Heat pump2:	Not Reported	Location l:	Not Reported
Location m:	0		
Location c:	Not Reported	Cemented f:	Not Reported
Slot lengt:	Not Reported	Slot size:	Not Reported
Inspector:	Not Reported		
Inspector :	Not Reported		
Inspection:	0	Pump setti:	Not Reported
Pump motor:	Not Reported	Pump plan1:	0
Pump plan2:	0	Pump plan3:	Not Reported
Pump rate:	Not Reported	Yield meas:	Not Reported
Pump hour1:	0	Pump hour2:	0
Pump stati:	Not Reported	Pump deter:	Not Reported
Pump groun:	Not Reported	Pump test :	0
X longdd:	-92.34		
Y latdd:	32.50555556		
Pump down :	Not Reported		
Pa remarks:	Not Reported	Pa signat2:	0
Pa signat1:	Not Reported		
Pa details:	Not Reported	Casing len:	Not Reported
Casing di2:	Not Reported	Casing di3:	Not Reported
Contact:	Not Reported		
Screen di2:	Not Reported		
Wwo seq nu:	0	Parish nam:	OUACHITA
Screen di3:	Not Reported		
Aquifer na:	COCKFIELD AQUIFER		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Use descri: destroyed observation
Well statu: Destroyed Site id: LATD40000055283

E11
South
1/4 - 1/2 Mile
Lower

LA WELLS LATD40000131293

Water wel1:	465471	State code:	22
Water wel2:	073-5884Z	Local well:	5884Z
Parish num:	073	Latitude:	323016
Identifica:	323016092203601	Sequence n:	01
Longitude:	922036	Well depth:	540
Owners nam:	SEAGULL ENERGY	Well subus:	PA
Well use:	S	Geologic u:	124SPRT
Date compl:	05/97		
Available :	Driller Log, Water Level		
Revised la:	Not Reported	Revised lo:	Not Reported
Elec log:	Not Reported	Drill log:	D
Mechanic a:	Not Reported	Chem analy:	Not Reported
Bio analys:	Not Reported	Pump test:	Not Reported
Avail info:	W	Drillers 1:	SCRUGGS, INC.
Drillers 2:	208	Section:	035
Township:	18N	Range:	01E
Hole depth:	540	Elevation:	136
Quad num:	034D	Water leve:	90.00
Date measu:	05/10/97	Source of :	D
Date of ad:	1997-09-12	Date regis:	06/97
Date plugg:	08/97	Plugged b1:	SCRUGGS, INC.
Plugged b2:	208	Yield:	Not Reported
Drawdown:	Not Reported	Casing di1:	4
Casing mat:	PLASTIC	Screen di1:	4
Screen int:	480-540	Serial num:	220262
Owners num:	BROWN 2	Latitude d:	0
Latitude m:	0		
Latitude s:	0		
Longitude1:	0	Longitude2:	0
Longitude3:	Not Reported		
Create dat:	2010 720	Create use:	SONRIS_DBA
Update dat:	2012 130	Update use:	SONRIS_DBA
Parish cod:	37	Industria1:	Not Reported
Owner stat:	Not Reported	Replacemen:	Not Reported
Industria2:	Not Reported	Public su1:	Not Reported
Public su2:	Not Reported	Pumpdown c:	Not Reported
Extension1:	Not Reported	Extension2:	Not Reported
Extension3:	Not Reported	Screen typ:	Not Reported
Gravel pac:	N	Ground eve:	Not Reported
Diameter o:	Not Reported	Site city:	Not Reported
Site zip:	Not Reported	Site addre:	Not Reported
Remarks:	Not Reported		
Authorize1:	Not Reported	Authorize2:	0
Heat pump1:	0		
Heat pump2:	Not Reported	Location l:	Not Reported
Location m:	0		
Location c:	Not Reported	Cemented f:	Not Reported
Slot lengt:	Not Reported	Slot size:	Not Reported
Inspector:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Inspector :	Not Reported	Pump setti:	Not Reported
Inspection:	0	Pump plan1:	0
Pump motor:	Not Reported	Pump plan3:	Not Reported
Pump plan2:	0	Yield meas:	Not Reported
Pump rate:	Not Reported	Pump hour2:	0
Pump hour1:	0	Pump deter:	Not Reported
Pump stati:	Not Reported	Pump test :	0
Pump groun:	Not Reported		
X longdd:	-92.34333333		
Y latdd:	32.50444444		
Pump down :	Not Reported		
Pa remarks:	Not Reported	Pa signat2:	0
Pa signat1:	Not Reported		
Pa details:	Not Reported	Casing len:	Not Reported
Casing di2:	Not Reported	Casing di3:	Not Reported
Contact:	Not Reported		
Screen di2:	Not Reported		
Wwo seq nu:	0	Parish nam:	OUACHITA
Screen di3:	Not Reported		
Aquifer na:	SPARTA AQUIFER		
Use descri:	plugged and abandoned rig supply	Site id:	LATD40000131293
Well statu:	Plugged and Abandoned		

12
WSW
1/4 - 1/2 Mile
Higher

LA WELLS LATD40000057773

Water wel1:	466206	State code:	22
Water wel2:	073-6619Z	Local well:	6619Z
Parish num:	073	Latitude:	323029
Identifica:	323029092210601	Sequence n:	01
Longitude:	922106	Well depth:	33
Owners nam:	TRITH, JAMES	Well subus:	Not Reported
Well use:	H	Geologic u:	00000000
Date compl:	05/07		
Available :	Driller Log, Water Level	Revised lo:	Not Reported
Revised la:	Not Reported	Drill log:	D
Elec log:	Not Reported	Chem analy:	Not Reported
Mechanic a:	Not Reported	Pump test:	Not Reported
Bio analys:	Not Reported	Drillers 1:	HAMMETT
Avail info:	W	Section:	034
Drillers 2:	061	Range:	01E
Township:	18N	Elevation:	206
Hole depth:	33	Water leve:	8.00
Quad num:	034D	Source of :	D
Date measu:	05/11/07	Date regis:	06/07
Date of ad:	2007-09-05	Plugged b1:	Not Reported
Date plugg:	Not Reported	Yield:	Not Reported
Plugged b2:	Not Reported	Casing di1:	2
Drawdown:	Not Reported	Screen di1:	2
Casing mat:	PLASTIC	Serial num:	Not Reported
Screen int:	28-33	Latitude d:	0
Owners num:	#1-2007		
Latitude m:	0	Longitude2:	0
Latitude s:	0		
Longitude1:	0		
Longitude3:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Create dat:	2010 720	Create use:	SONRIS_DBA
Update dat:	2012 130	Update use:	SONRIS_DBA
Parish cod:	37	Industria1:	Not Reported
Owner stat:	Not Reported	Replacemen:	Not Reported
Industria2:	Not Reported	Public su1:	Not Reported
Public su2:	Not Reported	Pumpdown c:	Not Reported
Extension1:	Not Reported	Extension2:	Not Reported
Extension3:	Not Reported	Screen typ:	Not Reported
Gravel pac:	N	Ground eve:	Not Reported
Diameter o:	Not Reported	Site city:	Not Reported
Site zip:	Not Reported	Site addre:	Not Reported
Remarks:	Not Reported		
Authorize1:	Not Reported	Authorize2:	0
Heat pump1:	0		
Heat pump2:	Not Reported	Location I:	Not Reported
Location m:	0		
Location c:	Not Reported	Cemented f:	Not Reported
Slot lengt:	Not Reported	Slot size:	Not Reported
Inspector:	Not Reported		
Inspector :	Not Reported		
Inspection:	0	Pump setti:	Not Reported
Pump motor:	Not Reported	Pump plan1:	0
Pump plan2:	0	Pump plan3:	Not Reported
Pump rate:	Not Reported	Yield meas:	Not Reported
Pump hour1:	0	Pump hour2:	0
Pump stati:	Not Reported	Pump deter:	Not Reported
Pump groun:	Not Reported	Pump test :	0
X longdd:	-92.35166667		
Y latdd:	32.50805556		
Pump down :	Not Reported		
Pa remarks:	Not Reported	Pa signal2:	0
Pa signal1:	Not Reported		
Pa details:	Not Reported	Casing len:	Not Reported
Casing di2:	Not Reported	Casing di3:	Not Reported
Contact:	Not Reported		
Screen di2:	Not Reported		
Wwo seq nu:	0	Parish nam:	OUACHITA
Screen di3:	Not Reported		
Aquifer na:	[TO BE DETERMINED	Site id:	LATD40000057773
Use descri:	domestic		
Well statu:	Active		

E13
South
1/4 - 1/2 Mile
Lower

FED USGS USGS40000413904

Org. Identifier:	USGS-LA		
Formal name:	USGS Louisiana Water Science Center		
Monloc Identifier:	USGS-323015092203601		
Monloc name:	Ou- 532		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	08040207	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	32.5043136
Longitude:	-92.343474	Sourcemap scale:	62500

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	120.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Mississippi embayment aquifer system		
Formation type:	Cockfield Formation of Claiborne Group		
Aquifer type:	Not Reported		
Construction date:	19810902	Welldepth:	17
Welldepth units:	ft	Wellholedepth:	86
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

E14
South
1/4 - 1/2 Mile
Lower

LA WELLS LATD40000055282

Water wel1:	464435	State code:	22
Water wel2:	073-532	Local well:	532
Parish num:	073	Latitude:	323015
Identifica:	323015092203601	Sequence n:	01
Longitude:	922036	Well depth:	17
Owners nam:	U S GEOL SURVEY	Well subus:	D
Well use:	O	Geologic u:	124CCKF
Date compl:	09/81	Revised lo:	Not Reported
Available :	Driller Log, Quality of Water	Drill log:	D
Revised la:	Not Reported	Chem analy:	Q
Elec log:	Not Reported	Pump test:	Not Reported
Mechanic a:	Not Reported	Drillers 1:	U.S.G.S.
Bio analys:	Not Reported	Section:	035
Avail info:	Not Reported	Range:	01E
Drillers 2:	002	Elevation:	120
Township:	18N	Water leve:	0.00
Hole depth:	86	Source of :	Not Reported
Quad num:	034D	Date regis:	Not Reported
Date measu:	Not Reported	Plugged b1:	Not Reported
Date of ad:	1998-10-23	Yield:	1
Date plugg:	Not Reported	Casing di1:	1.25
Plugged b2:	Not Reported	Screen di1:	1.25
Drawdown:	Not Reported	Serial num:	Not Reported
Casing mat:	METAL	Latitude d:	0
Screen int:	14-17	Longitude2:	0
Owners num:	7		
Latitude m:	0		
Latitude s:	0		
Longitude1:	0		
Longitude3:	Not Reported		
Comments:	WELL DESTROYED--SEE USGS FIELD REPORT DATED 07/27/98.		
Create dat:	2010 720	Create use:	SONRIS_DBA
Update dat:	2012 130	Update use:	SONRIS_DBA
Parish cod:	37	Industria1:	Not Reported
Owner stat:	Not Reported	Replacemen:	Not Reported
Industria2:	Not Reported	Public su1:	Not Reported
Public su2:	Not Reported	Pumpdown c:	Not Reported
Extension1:	Not Reported	Extension2:	Not Reported
Extension3:	Not Reported	Screen typ:	Not Reported
Gravel pac:	N	Ground eve:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Diameter o:	Not Reported	Site city:	Not Reported
Site zip:	Not Reported	Site addre:	Not Reported
Remarks:	Not Reported		
Authorize1:	Not Reported	Authorize2:	0
Heat pump1:	0		
Heat pump2:	Not Reported	Location l:	Not Reported
Location m:	0		
Location c:	Not Reported	Cemented f:	Not Reported
Slot lengt:	Not Reported	Slot size:	Not Reported
Inspector:	Not Reported		
Inspector :	Not Reported		
Inspection:	0	Pump setti:	Not Reported
Pump motor:	Not Reported	Pump plan1:	0
Pump plan2:	0	Pump plan3:	Not Reported
Pump rate:	Not Reported	Yield meas:	Not Reported
Pump hour1:	0	Pump hour2:	0
Pump stati:	Not Reported	Pump deter:	Not Reported
Pump groun:	Not Reported	Pump test :	0
X longdd:	-92.34333333		
Y latdd:	32.50416667		
Pump down :	Not Reported		
Pa remarks:	Not Reported		
Pa signal1:	Not Reported	Pa signal2:	0
Pa details:	Not Reported		
Casing di2:	Not Reported	Casing len:	Not Reported
Contact:	Not Reported	Casing di3:	Not Reported
Screen di2:	Not Reported		
Wwo seq nu:	0		
Screen di3:	Not Reported	Parish nam:	OUACHITA
Aquifer na:	COCKFIELD AQUIFER		
Use descri:	destroyed observation		
Well statu:	Destroyed	Site id:	LATD40000055282

D15
SE
1/2 - 1 Mile
Lower

FED USGS USGS40000413912

Org. Identifier:	USGS-LA		
Formal name:	USGS Louisiana Water Science Center		
Monloc Identifier:	USGS-323018092202101		
Monloc name:	Ou- 531		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	08040207	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	32.5051469
Longitude:	-92.3393072	Sourcemap scale:	62500
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	135.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Mississippi embayment aquifer system		
Formation type:	Cockfield Formation of Claiborne Group		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	44
Construction date:	19810902	Wellholedepth:	53
Welldepth units:	ft		
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

D16
SE
1/2 - 1 Mile
Lower

LA WELLS LATD40000156869

Water wel1:	464434	State code:	22
Water wel2:	073-531	Local well:	531
Parish num:	073	Latitude:	323018
Identifica:	323018092202101	Sequence n:	01
Longitude:	922021	Well depth:	44
Owners nam:	U S GEOL SURVEY	Well subus:	D
Well use:	O	Geologic u:	124CCKF
Date compl:	09/81		
Available :	Driller Log, Quality of Water		
Revised la:	Not Reported	Revised lo:	Not Reported
Elec log:	Not Reported	Drill log:	D
Mechanic a:	Not Reported	Chem analy:	Q
Bio analys:	Not Reported	Pump test:	Not Reported
Avail info:	Not Reported	Drillers 1:	U.S.G.S.
Drillers 2:	002	Section:	035
Township:	18N	Range:	01E
Hole depth:	53	Elevation:	135
Quad num:	034D	Water leve:	0.00
Date measu:	Not Reported	Source of :	Not Reported
Date of ad:	1998-10-23	Date regis:	Not Reported
Date plugg:	Not Reported	Plugged b1:	Not Reported
Plugged b2:	Not Reported	Yield:	1
Drawdown:	Not Reported	Casing di1:	1.25
Casing mat:	METAL	Screen di1:	1.25
Screen int:	41-44	Serial num:	Not Reported
Owners num:	6	Latitude d:	0
Latitude m:	0		
Latitude s:	0		
Longitude1:	0	Longitude2:	0
Longitude3:	Not Reported		
Comments:	WELL DESTROYED--SEE USGS FIELD REPORT DATED 07/27/98.		
Create dat:	2010 720	Create use:	SONRIS_DBA
Update dat:	2012 130	Update use:	SONRIS_DBA
Parish cod:	37	Industria1:	Not Reported
Owner stat:	Not Reported	Replacemen:	Not Reported
Industria2:	Not Reported	Public su1:	Not Reported
Public su2:	Not Reported	Pumpdown c:	Not Reported
Extension1:	Not Reported	Extension2:	Not Reported
Extension3:	Not Reported	Screen typ:	Not Reported
Gravel pac:	N	Ground eve:	Not Reported
Diameter o:	Not Reported	Site city:	Not Reported
Site zip:	Not Reported	Site addre:	Not Reported
Remarks:	Not Reported		
Authorize1:	Not Reported	Authorize2:	0
Heat pump1:	0		
Heat pump2:	Not Reported	Location l:	Not Reported
Location m:	0		
Location c:	Not Reported	Cemented f:	Not Reported
Slot lengt:	Not Reported	Slot size:	Not Reported
Inspector:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Inspector :	Not Reported	Pump setti:	Not Reported
Inspection:	0	Pump plan1:	0
Pump motor:	Not Reported	Pump plan3:	Not Reported
Pump plan2:	0	Yield meas:	Not Reported
Pump rate:	Not Reported	Pump hour2:	0
Pump hour1:	0	Pump deter:	Not Reported
Pump stati:	Not Reported	Pump test :	0
Pump groun:	Not Reported		
X longdd:	-92.33916667		
Y latdd:	32.505		
Pump down :	Not Reported		
Pa remarks:	Not Reported	Pa signal2:	0
Pa signal1:	Not Reported		
Pa details:	Not Reported	Casing len:	Not Reported
Casing di2:	Not Reported	Casing di3:	Not Reported
Contact:	Not Reported		
Screen di2:	Not Reported		
Wwo seq nu:	0	Parish nam:	OUACHITA
Screen di3:	Not Reported		
Aquifer na:	COCKFIELD AQUIFER	Site id:	LATD40000156869
Use descri:	destroyed observation		
Well statu:	Destroyed		

F17
WNW
1/2 - 1 Mile
Higher

FED USGS USGS40000413971

Org. Identifier:	USGS-LA		
Formal name:	USGS Louisiana Water Science Center		
Monloc Identifier:	USGS-323048092211801		
Monloc name:	Ou-6272Z		
Monloc type:	Well		
Monloc desc:	Not Reported	Drainagearea value:	Not Reported
Huc code:	Not Reported	Contrib drainagearea:	Not Reported
Drainagearea Units:	Not Reported	Latitude:	32.5133333
Contrib drainagearea units:	Not Reported	Sourcemap scale:	24000
Longitude:	-92.355	Horiz Acc measure units:	seconds
Horiz Acc measure:	1		
Horiz Collection method:	Global positioning system (GPS), uncorrected	Vert measure val:	185
Horiz coord refs:	NAD83	Vertacc measure val:	5
Vert measure units:	feet		
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refs:	NGVD29	Countrycode:	US
Aquifername:	Mississippi embayment aquifer system		
Formation type:	Sparta Sand		
Aquifer type:	Confined single aquifer		
Construction date:	19991109	Welldepth:	765
Welldepth units:	ft	Wellholedepth:	800
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

F18
WNW
1/2 - 1 Mile
Higher

LA WELLS LATD40000057066

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Water wel1:	465859	State code:	22
Water wel2:	073-6272Z	Local well:	6272Z
Parish num:	073	Latitude:	323048
Identifica:	323048092211801	Sequence n:	01
Longitude:	922118	Well depth:	765
Owners nam:	OU SCHOOL BOARD	Well subus:	PA
Well use:	T	Geologic u:	124SPRT
Date compl:	11/99	Available :	Geophysical, Driller Log, Mechanical Analysis, Quality of Water, Pumping Test, Water Level
Revised la:	Not Reported	Revised lo:	Not Reported
Elec log:	E	Drill log:	D
Mechanic a:	M	Chem analy:	Q
Bio analys:	Not Reported	Pump test:	P
Avail info:	W	Drillers 1:	CONTINENTAL
Drillers 2:	004	Section:	027
Township:	18N	Range:	01E
Hole depth:	800	Elevation:	185
Quad num:	034D	Water leve:	278.00
Date measu:	11/09/99	Source of :	D
Date of ad:	2002-11-22	Date regis:	04/01
Date plugg:	11/99	Plugged b1:	CONTINENTAL
Plugged b2:	004	Yield:	30
Drawdown:	118	Casing di1:	4
Casing mat:	STEEL	Screen di1:	4
Screen int:	745-765	Serial num:	Not Reported
Owners num:	CALHOUN MD	Latitude d:	0
Latitude m:	0		
Latitude s:	0		
Longitude1:	0	Longitude2:	0
Longitude3:	Not Reported		
Comments:	TEST WELL AT CALHOUN MIDDLE SCHOOL		
Create dat:	2010 720	Create use:	SONRIS_DBA
Update dat:	2012 130	Update use:	SONRIS_DBA
Parish cod:	37	Industria1:	Not Reported
Owner stat:	Not Reported	Replacemen:	Not Reported
Industria2:	Not Reported	Public su1:	Not Reported
Public su2:	Not Reported	Pumpdown c:	Not Reported
Extension1:	Not Reported	Extension2:	Not Reported
Extension3:	Not Reported	Screen typ:	Not Reported
Gravel pac:	N	Ground eve:	Not Reported
Diameter o:	Not Reported	Site city:	Not Reported
Site zip:	Not Reported	Site addre:	Not Reported
Remarks:	Not Reported		
Authorize1:	Not Reported	Authorize2:	0
Heat pump1:	0		
Heat pump2:	Not Reported	Location l:	Not Reported
Location m:	0		
Location c:	Not Reported	Cemented f:	Not Reported
Slot lengt:	Not Reported	Slot size:	Not Reported
Inspector:	Not Reported		
Inspector :	Not Reported		
Inspection:	0	Pump setti:	Not Reported
Pump motor:	Not Reported	Pump plan1:	0
Pump plan2:	0	Pump plan3:	Not Reported
Pump rate:	Not Reported	Yield meas:	Not Reported
Pump hour1:	0	Pump hour2:	0
Pump stati:	Not Reported	Pump deter:	Not Reported
Pump groun:	Not Reported	Pump test :	0
X longdd:	-92.355		
Y latdd:	32.51333333		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pump down :	Not Reported		
Pa remarks:	Not Reported		
Pa signat1:	Not Reported	Pa signat2:	0
Pa details:	Not Reported		
Casing di2:	Not Reported	Casing len:	Not Reported
Contact:	Not Reported	Casing di3:	Not Reported
Screen di2:	Not Reported		
Wwo seq nu:	0		
Screen di3:	Not Reported	Parish nam:	OUACHITA
Aquifer na:	SPARTA AQUIFER		
Use descri:	plugged and abandoned test hole		
Well statu:	Plugged and Abandoned	Site id:	LATD40000057066

G19

SE

1/2 - 1 Mile

Lower

FED USGS

USGS40000413903

Org. Identifier:	USGS-LA		
Formal name:	USGS Louisiana Water Science Center		
Monloc Identifier:	USGS-323015092201201		
Monloc name:	Ou- 555		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	08040207	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	32.5043135
Longitude:	-92.3368071	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refs:	NAD83	Vert measure val:	150.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refs:	NGVD29	Countrycode:	US
Aquifername:	Mississippi embayment aquifer system		
Formation type:	Sparta Sand		
Aquifer type:	Confined single aquifer		
Construction date:	19831014	Welldepth:	570
Welldepth units:	ft	Wellholedepth:	570
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

	Feet below	Feet to
Date	Surface	Sealevel

1983-10-14	210.00	

H20

SSE

1/2 - 1 Mile

Higher

FED USGS

USGS40000413874

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Org. Identifier:	USGS-LA		
Formal name:	USGS Louisiana Water Science Center		
Monloc Identifier:	USGS-323007092202801		
Monloc name:	Ou- 529		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	08040207	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	32.5020914
Longitude:	-92.3412517	Sourcemap scale:	62500
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refs:	NAD83	Vert measure val:	125.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refs:	NGVD29	Countrycode:	US
Aquifername:	Mississippi embayment aquifer system		
Formation type:	Cockfield Formation of Claiborne Group		
Aquifer type:	Not Reported		
Construction date:	19810731	Welldepth:	29
Welldepth units:	ft	Wellholedepth:	31
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

G21

SE

1/2 - 1 Mile

Lower

LA WELLS

LATD40000156102

Water wel1:	464458	State code:	22
Water wel2:	073-555	Local well:	555
Parish num:	073	Latitude:	323015
Identifica:	323015092201201	Sequence n:	01
Longitude:	922012	Well depth:	570
Owners nam:	GARRETT, KEVIN	Well subus:	Not Reported
Well use:	H	Geologic u:	124SPRT
Date compl:	10/83		
Available :	Driller Log, Water Level	Revised lo:	Not Reported
Revised la:	Not Reported	Drill log:	D
Elec log:	Not Reported	Chem analy:	Not Reported
Mechanic a:	Not Reported	Pump test:	Not Reported
Bio analys:	Not Reported	Drillers 1:	HARGROVE (BEN)
Avail info:	W	Section:	035
Drillers 2:	069	Range:	01E
Township:	18N	Elevation:	150
Hole depth:	570	Water leve:	210.00
Quad num:	034D	Source of :	D
Date measu:	10/14/83	Date regis:	12/83
Date of ad:	Not Reported	Plugged b1:	Not Reported
Date plugg:	Not Reported	Yield:	47
Plugged b2:	Not Reported	Casing d1:	4X2.50
Drawdown:	18	Screen d1:	2.50
Casing mat:	STEEL	Serial num:	Not Reported
Screen int:	549-570	Latitude d:	0
Owners num:	Not Reported		
Latitude m:	0	Longitude2:	0
Latitude s:	0		
Longitude1:	0		
Longitude3:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Create dat:	2010 720	Create use:	SONRIS_DBA
Update dat:	2012 130	Update use:	SONRIS_DBA
Parish cod:	37	Industria1:	Not Reported
Owner stat:	Not Reported	Replacemen:	Not Reported
Industria2:	Not Reported	Public su1:	Not Reported
Public su2:	Not Reported	Pumpdown c:	Not Reported
Extension1:	Not Reported	Extension2:	Not Reported
Extension3:	Not Reported	Screen typ:	Not Reported
Gravel pac:	N	Ground eve:	Not Reported
Diameter o:	Not Reported	Site city:	Not Reported
Site zip:	Not Reported	Site addre:	Not Reported
Remarks:	Not Reported		
Authorize1:	Not Reported	Authorize2:	0
Heat pump1:	0		
Heat pump2:	Not Reported	Location I:	Not Reported
Location m:	0		
Location c:	Not Reported	Cemented f:	Not Reported
Slot lengt:	Not Reported	Slot size:	Not Reported
Inspector:	Not Reported		
Inspector :	Not Reported		
Inspection:	0	Pump setti:	Not Reported
Pump motor:	Not Reported	Pump plan1:	0
Pump plan2:	0	Pump plan3:	Not Reported
Pump rate:	Not Reported	Yield meas:	Not Reported
Pump hour1:	0	Pump hour2:	0
Pump stati:	Not Reported	Pump deter:	Not Reported
Pump groun:	Not Reported	Pump test :	0
X longdd:	-92.33666667		
Y latdd:	32.50416667		
Pump down :	Not Reported		
Pa remarks:	Not Reported	Pa signat2:	0
Pa signat1:	Not Reported		
Pa details:	Not Reported	Casing len:	Not Reported
Casing di2:	Not Reported	Casing di3:	Not Reported
Contact:	Not Reported		
Screen di2:	Not Reported		
Wwo seq nu:	0		
Screen di3:	Not Reported	Parish nam:	OUACHITA
Aquifer na:	SPARTA AQUIFER		
Use descri:	domestic		
Well statu:	Active	Site id:	LATD40000156102

H22
SSE
1/2 - 1 Mile
Higher

LA WELLS LATD40000116318

Water wel1:	464432	State code:	22
Water wel2:	073-529	Local well:	529
Parish num:	073	Latitude:	323007
Identifica:	323007092202801	Sequence n:	01
Longitude:	922028	Well depth:	29
Owners nam:	U S GEOL SURVEY	Well subus:	D
Well use:	O	Geologic u:	124CCKF
Date compl:	07/81		
Available :	Driller Log, Quality of Water	Revised lo:	Not Reported
Revised la:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Elec log:	Not Reported	Drill log:	D
Mechanic a:	Not Reported	Chem analy:	Q
Bio analy:	Not Reported	Pump test:	Not Reported
Avail info:	Not Reported	Drillers 1:	U.S.G.S.
Drillers 2:	002	Section:	035
Township:	18N	Range:	01E
Hole depth:	31	Elevation:	125
Quad num:	034D	Water leve:	0.00
Date measu:	Not Reported	Source of :	Not Reported
Date of ad:	1998-10-23	Date regis:	Not Reported
Date plugg:	Not Reported	Plugged b1:	Not Reported
Plugged b2:	Not Reported	Yield:	2
Drawdown:	Not Reported	Casing di1:	1.25
Casing mat:	METAL	Screen di1:	1.25
Screen int:	26-29	Serial num:	Not Reported
Owners num:	4	Latitude d:	0
Latitude m:	0		
Latitude s:	0		
Longitude1:	0	Longitude2:	0
Longitude3:	Not Reported		
Comments:	WELL DESTROYED--SEE USGS FIELD REPORT DATED 07/27/98.		
Create dat:	2010 720	Create use:	SONRIS_DBA
Update dat:	2012 130	Update use:	SONRIS_DBA
Parish cod:	37	Industria1:	Not Reported
Owner stat:	Not Reported	Replacemen:	Not Reported
Industria2:	Not Reported	Public su1:	Not Reported
Public su2:	Not Reported	Pumpdown c:	Not Reported
Extension1:	Not Reported	Extension2:	Not Reported
Extension3:	Not Reported	Screen typ:	Not Reported
Gravel pac:	N	Ground eve:	Not Reported
Diameter o:	Not Reported	Site city:	Not Reported
Site zip:	Not Reported	Site addre:	Not Reported
Remarks:	Not Reported		
Authorize1:	Not Reported	Authorize2:	0
Heat pump1:	0		
Heat pump2:	Not Reported	Location l:	Not Reported
Location m:	0		
Location c:	Not Reported	Cemented f:	Not Reported
Slot lengt:	Not Reported	Slot size:	Not Reported
Inspector:	Not Reported		
Inspector :	Not Reported		
Inspection:	0	Pump setti:	Not Reported
Pump motor:	Not Reported	Pump plan1:	0
Pump plan2:	0	Pump plan3:	Not Reported
Pump rate:	Not Reported	Yield meas:	Not Reported
Pump hour1:	0	Pump hour2:	0
Pump stati:	Not Reported	Pump deter:	Not Reported
Pump groun:	Not Reported	Pump test :	0
X longdd:	-92.34111111		
Y latdd:	32.50194444		
Pump down :	Not Reported		
Pa remarks:	Not Reported	Pa signal2:	0
Pa signal1:	Not Reported		
Pa details:	Not Reported	Casing len:	Not Reported
Casing di2:	Not Reported	Casing di3:	Not Reported
Contact:	Not Reported		
Screen di2:	Not Reported		
Wwo seq nu:	0	Parish nam:	OUACHITA
Screen di3:	Not Reported		
Aquifer na:	COCKFIELD AQUIFER		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Use descri: destroyed observation
Well statu: Destroyed Site id: LATD40000116318

I23
SSE
1/2 - 1 Mile
Higher

FED USGS USGS40000413875

Org. Identifier:	USGS-LA		
Formal name:	USGS Louisiana Water Science Center		
Monloc Identifier:	USGS-323008092202101		
Monloc name:	Ou- 530		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	08040207	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	32.5023692
Longitude:	-92.3393072	Sourcemap scale:	62500
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refs:	NAD83	Vert measure val:	160.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refs:	NGVD29	Countrycode:	US
Aquifername:	Mississippi embayment aquifer system		
Formation type:	Cockfield Formation of Claiborne Group		
Aquifer type:	Not Reported		
Construction date:	19810901	Welldepth:	72
Welldepth units:	ft	Wellholedepth:	80
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
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1981-09-01 21.14

I24
SSE
1/2 - 1 Mile
Higher

FED USGS USGS40000413873

Org. Identifier:	USGS-LA		
Formal name:	USGS Louisiana Water Science Center		
Monloc Identifier:	USGS-323007092202201		
Monloc name:	Ou- 528		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	08040207	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	32.5020914
Longitude:	-92.339585	Sourcemap scale:	62500

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	160.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Mississippi embayment aquifer system		
Formation type:	Cockfield Formation of Claiborne Group		
Aquifer type:	Not Reported		
Construction date:	19810730	Welldepth:	55
Welldepth units:	ft	Wellholedepth:	59
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1981-07-31	24.27	

**I25
SSE
1/2 - 1 Mile
Higher**

LA WELLS LATD40000055281

Water well1:	464433	State code:	22
Water well2:	073-530	Local well:	530
Parish num:	073	Latitude:	323008
Identifica:	323008092202101	Sequence n:	01
Longitude:	922021	Well depth:	72
Owners nam:	U S GEOL SURVEY	Well subus:	D
Well use:	O	Geologic u:	124CCKF
Date compl:	09/81		
Available :	Driller Log, Quality of Water, Water Level		
Revised la:	Not Reported	Revised lo:	Not Reported
Elec log:	Not Reported	Drill log:	D
Mechanic a:	Not Reported	Chem analy:	Q
Bio analys:	Not Reported	Pump test:	Not Reported
Avail info:	W	Drillers 1:	U.S.G.S.
Drillers 2:	002	Section:	035
Township:	18N	Range:	01E
Hole depth:	80	Elevation:	160
Quad num:	034D	Water leve:	21.14
Date measu:	09/01/81	Source of :	A
Date of ad:	1998-10-23	Date regis:	Not Reported
Date plugg:	Not Reported	Plugged b1:	Not Reported
Plugged b2:	Not Reported	Yield:	Not Reported
Drawdown:	Not Reported	Casing di1:	1.25
Casing mat:	METAL	Screen di1:	1.25
Screen int:	69-72	Serial num:	Not Reported
Owners num:	5	Latitude d:	0
Latitude m:	0		
Latitude s:	0		
Longitude1:	0	Longitude2:	0
Longitude3:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Comments: WELL DESTROYED--SEE USGS FIELD REPORT DATED 07/27/98.			
Create dat:	2010 720	Create use:	SONRIS_DBA
Update dat:	2012 130	Update use:	SONRIS_DBA
Parish cod:	37	Industria1:	Not Reported
Owner stat:	Not Reported	Replacemen:	Not Reported
Industria2:	Not Reported	Public su1:	Not Reported
Public su2:	Not Reported	Pumpdown c:	Not Reported
Extension1:	Not Reported	Extension2:	Not Reported
Extension3:	Not Reported	Screen typ:	Not Reported
Gravel pac:	N	Ground eve:	Not Reported
Diameter o:	Not Reported	Site city:	Not Reported
Site zip:	Not Reported	Site addre:	Not Reported
Remarks:	Not Reported		
Authorize1:	Not Reported	Authorize2:	0
Heat pump1:	0		
Heat pump2:	Not Reported	Location l:	Not Reported
Location m:	0		
Location c:	Not Reported	Cemented f:	Not Reported
Slot lengt:	Not Reported	Slot size:	Not Reported
Inspector:	Not Reported		
Inspector :	Not Reported		
Inspection:	0	Pump setti:	Not Reported
Pump motor:	Not Reported	Pump plan1:	0
Pump plan2:	0	Pump plan3:	Not Reported
Pump rate:	Not Reported	Yield meas:	Not Reported
Pump hour1:	0	Pump hour2:	0
Pump stati:	Not Reported	Pump deter:	Not Reported
Pump groun:	Not Reported	Pump test :	0
X longdd:	-92.33916667		
Y latdd:	32.50222222		
Pump down :	Not Reported		
Pa remarks:	Not Reported	Pa signal2:	0
Pa signal1:	Not Reported		
Pa details:	Not Reported	Casing len:	Not Reported
Casing di2:	Not Reported	Casing di3:	Not Reported
Contact:	Not Reported		
Screen di2:	Not Reported		
Wwo seq nu:	0	Parish nam:	OUACHITA
Screen di3:	Not Reported		
Aquifer na:	COCKFIELD AQUIFER		
Use descri:	destroyed observation	Site id:	LATD40000055281
Well statu:	Destroyed		

I26
SSE
1/2 - 1 Mile
Higher

LA WELLS LATD40000198173

Water wel1:	464431	State code:	22
Water wel2:	073-528	Local well:	528
Parish num:	073	Latitude:	323007
Identifica:	323007092202201	Sequence n:	01
Longitude:	922022	Well depth:	55
Owners nam:	U S GEOL SURVEY	Well subus:	D
Well use:	O	Geologic u:	124CCKF
Date compl:	07/81		
Available :	Driller Log, Quality of Water, Water Level	Revised lo:	Not Reported
Revised la:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Elec log:	Not Reported	Drill log:	D
Mechanic a:	Not Reported	Chem analy:	Q
Bio analys:	Not Reported	Pump test:	Not Reported
Avail info:	W	Drillers 1:	U.S.G.S.
Drillers 2:	002	Section:	035
Township:	18N	Range:	01E
Hole depth:	59	Elevation:	160
Quad num:	034D	Water leve:	24.27
Date measu:	07/31/81	Source of :	A
Date of ad:	1998-10-23	Date regis:	Not Reported
Date plugg:	Not Reported	Plugged b1:	Not Reported
Plugged b2:	Not Reported	Yield:	3
Drawdown:	Not Reported	Casing di1:	1.25
Casing mat:	METAL	Screen di1:	1.25
Screen int:	52-55	Serial num:	Not Reported
Owners num:	3	Latitude d:	0
Latitude m:	0		
Latitude s:	0		
Longitude1:	0	Longitude2:	0
Longitude3:	Not Reported		
Comments:	WELL DESTROYED--SEE USGS FIELD REPORT DATED 07/27/98.		
Create dat:	2010 720	Create use:	SONRIS_DBA
Update dat:	2012 130	Update use:	SONRIS_DBA
Parish cod:	37	Industria1:	Not Reported
Owner stat:	Not Reported	Replacemen:	Not Reported
Industria2:	Not Reported	Public su1:	Not Reported
Public su2:	Not Reported	Pumpdown c:	Not Reported
Extension1:	Not Reported	Extension2:	Not Reported
Extension3:	Not Reported	Screen typ:	Not Reported
Gravel pac:	N	Ground eve:	Not Reported
Diameter o:	Not Reported	Site city:	Not Reported
Site zip:	Not Reported	Site addre:	Not Reported
Remarks:	Not Reported		
Authorize1:	Not Reported	Authorize2:	0
Heat pump1:	0		
Heat pump2:	Not Reported	Location l:	Not Reported
Location m:	0		
Location c:	Not Reported	Cemented f:	Not Reported
Slot lengt:	Not Reported	Slot size:	Not Reported
Inspector:	Not Reported		
Inspector :	Not Reported		
Inspection:	0	Pump setti:	Not Reported
Pump motor:	Not Reported	Pump plan1:	0
Pump plan2:	0	Pump plan3:	Not Reported
Pump rate:	Not Reported	Yield meas:	Not Reported
Pump hour1:	0	Pump hour2:	0
Pump statl:	Not Reported	Pump deter:	Not Reported
Pump groun:	Not Reported	Pump test :	0
X longdd:	-92.33944444		
Y latdd:	32.50194444		
Pump down :	Not Reported		
Pa remarks:	Not Reported	Pa signat2:	0
Pa signat1:	Not Reported		
Pa details:	Not Reported	Casing len:	Not Reported
Casing di2:	Not Reported	Casing di3:	Not Reported
Contact:	Not Reported		
Screen di2:	Not Reported		
Wwo seq nu:	0	Parish nam:	OUACHITA
Screen di3:	Not Reported		
Aquifer na:	COCKFIELD AQUIFER		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Use descri: destroyed observation
Well statu: Destroyed Site id: LATD40000198173

27
West
1/2 - 1 Mile
Higher

LA WELLS 1073006001

Site Name:	WELL #2		
Site ID:	001		
Public Water Sys. ID:	1073006	Source:	SPARTA SAND
Latitude/Longitude:	3230401 / 9221249	Total Depth:	0750
Diameter:	008	Capacity:	185
Supply Name:	CALHOUN WATER SYSTEM		
	P. O. BOX 165		
	CALHOUN, LA 71225		
Parish:	OUACHITA	FIPS County Code:	073
Owner:	CALHOUN WATER SYSTEM	System Type:	Comm
Contact1:	RICHARD PUCKETT, PRES./OPERATR		
Telephone1:	(318) 644 - 7202		
Contact2:	SAMPLE COLLECTION U.D.S.		
Telephone2:	Not Reported		

J28
West
1/2 - 1 Mile
Higher

LA WELLS LATD40000054755

Water wel1:	464462	State code:	22
Water wel2:	073-559	Local well:	559
Parish num:	073	Latitude:	323035
Identifica:	323035092212701	Sequence n:	01
Longitude:	922127	Well depth:	738
Owners nam:	CALHOUN WTR SYS	Well subus:	R
Well use:	P	Geologic u:	124SPRT
Date compl:	10/85		
Available :	Geophysical, Driller Log, Water Level		
Revised la:	323005	Revised lo:	922127
Elec log:	E	Drill log:	D
Mechanic a:	Not Reported	Chem analy:	Not Reported
Bio analys:	Not Reported	Pump test:	Not Reported
Avail info:	W	Drillers 1:	CONTINENTAL
Drillers 2:	004	Section:	034
Township:	18N	Range:	01E
Hole depth:	750	Elevation:	180
Quad num:	034D	Water leve:	247.00
Date measu:	10/07/85	Source of :	D
Date of ad:	1994-07-20	Date regis:	12/85
Date plugg:	Not Reported	Plugged b1:	Not Reported
Plugged b2:	Not Reported	Yield:	80
Drawdown:	9	Casing di1:	8X4X4
Casing mat:	STEEL	Screen di1:	4
Screen int:	MULTIPLE	Serial num:	1073006
Owners num:	2	Latitude d:	0
Latitude m:	0		
Latitude s:	0		
Longitude1:	0	Longitude2:	0
Longitude3:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Create dat:	2010 720	Create use:	SONRIS_DBA
Update dat:	2012 130	Update use:	SONRIS_DBA
Parish cod:	37	Industria1:	Not Reported
Owner stat:	Not Reported	Replacemen:	Not Reported
Industria2:	Not Reported	Public su1:	Not Reported
Public su2:	Not Reported	Pumpdown c:	Not Reported
Extension1:	Not Reported	Extension2:	Not Reported
Extension3:	Not Reported	Screen typ:	Not Reported
Gravel pac:	N	Ground eve:	Not Reported
Diameter o:	Not Reported	Site city:	Not Reported
Site zip:	Not Reported	Site addre:	Not Reported
Remarks:	Not Reported		
Authorize1:	Not Reported	Authorize2:	0
Heat pump1:	0		
Heat pump2:	Not Reported	Location I:	Not Reported
Location m:	0		
Location c:	Not Reported	Cemented f:	Not Reported
Slot lengt:	Not Reported	Slot size:	Not Reported
Inspector:	Not Reported		
Inspector :	Not Reported		
Inspection:	0	Pump setti:	Not Reported
Pump motor:	Not Reported	Pump plan1:	0
Pump plan2:	0	Pump plan3:	Not Reported
Pump rate:	Not Reported	Yield meas:	Not Reported
Pump hour1:	0	Pump hour2:	0
Pump stati:	Not Reported	Pump deter:	Not Reported
Pump groun:	Not Reported	Pump test :	0
X longdd:	-92.3575		
Y latdd:	32.50972222		
Pump down :	Not Reported		
Pa remarks:	Not Reported	Pa signal2:	0
Pa signal1:	Not Reported		
Pa details:	Not Reported	Casing len:	Not Reported
Casing di2:	Not Reported	Casing di3:	Not Reported
Contact:	Not Reported		
Screen di2:	Not Reported		
Wwo seq nu:	0	Parish nam:	OUACHITA
Screen di3:	Not Reported		
Aquifer na:	SPARTA AQUIFER	Site id:	LATD40000054755
Use descri:	rural public supply		
Well statu:	Active		

J29
West
1/2 - 1 Mile
Higher

LA WELLS LATD40000055579

Water well1:	464317	State code:	22
Water well2:	073-418	Local well:	418
Parish num:	073	Latitude:	323035
Identifica:	323035092212801	Sequence n:	01
Longitude:	922128	Well depth:	654
Owners nam:	CALHOUN WTR SYS	Well subus:	R
Well use:	P	Geologic u:	124SPRT
Date compl:	1965		
Available :	Geophysical, Driller Log, Quality of Water, Water Level		
Revised la:	Not Reported	Revised lo:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Elec log:	E	Drill log:	D
Mechanic a:	Not Reported	Chem analy:	Q
Bio analys:	Not Reported	Pump test:	Not Reported
Avail info:	W	Drillers 1:	EDINGTON DRLG
Drillers 2:	000	Section:	027
Township:	18N	Range:	01E
Hole depth:	670	Elevation:	185
Quad num:	034D	Water leve:	206.00
Date measu:	11/08/65	Source of :	Z
Date of ad:	1996-10-17	Date regis:	11/77
Date plugg:	Not Reported	Plugged b1:	Not Reported
Plugged b2:	Not Reported	Yield:	65
Drawdown:	20	Casing di1:	7X3
Casing mat:	METAL	Screen di1:	3
Screen int:	604-654	Serial num:	1073006
Owners num:	1	Latitude d:	0
Latitude m:	0		
Latitude s:	0	Longitude2:	0
Longitude1:	0		
Longitude3:	Not Reported	Create use:	SONRIS_DBA
Create dat:	2010 720	Update use:	SONRIS_DBA
Update dat:	2012 130	Industria1:	Not Reported
Parish cod:	37	Replacemen:	Not Reported
Owner stat:	Not Reported	Public su1:	Not Reported
Industria2:	Not Reported	Pumpdown c:	Not Reported
Public su2:	Not Reported	Extension2:	Not Reported
Extension1:	Not Reported	Screen typ:	Not Reported
Extension3:	Not Reported	Ground eve:	Not Reported
Gravel pac:	N	Site city:	Not Reported
Diameter o:	Not Reported	Site addre:	Not Reported
Site zip:	Not Reported		
Remarks:	Not Reported	Authorize2:	0
Authorize1:	Not Reported		
Heat pump1:	0	Location I:	Not Reported
Heat pump2:	Not Reported		
Location m:	0	Cemented f:	Not Reported
Location c:	Not Reported	Slot size:	Not Reported
Slot lengt:	Not Reported		
Inspector:	Not Reported	Pump setti:	Not Reported
Inspector :	Not Reported	Pump plan1:	0
Inspection:	0	Pump plan3:	Not Reported
Pump motor:	Not Reported	Yield meas:	Not Reported
Pump plan2:	0	Pump hour2:	0
Pump rate:	Not Reported	Pump deter:	Not Reported
Pump hour1:	0	Pump test :	0
Pump stati:	Not Reported		
Pump groun:	Not Reported		
X longdd:	-92.35777778	Pa signal2:	0
Y latdd:	32.50972222		
Pump down :	Not Reported	Casing len:	Not Reported
Pa remarks:	Not Reported	Casing di3:	Not Reported
Pa signal1:	Not Reported		
Pa details:	Not Reported	Parish nam:	OUACHITA
Casing di2:	Not Reported		
Contact:	Not Reported		
Screen di2:	Not Reported		
Wwo seq nu:	0		
Screen di3:	Not Reported		
Aquifer na:	SPARTA AQUIFER		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Use descri: rural public supply
Well statu: Active Site id: LATD40000055579

J30
West
1/2 - 1 Mile
Higher

FED USGS USGS40000413942

Org. Identifier:	USGS-LA		
Formal name:	USGS Louisiana Water Science Center		
Monloc Identifier:	USGS-323035092212801		
Monloc name:	Ou- 418		
Monloc type:	Well		
Monloc desc:	SWUDS Well, May-2005		
Huc code:	08040207	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	32.5098692
Longitude:	-92.3579188	Sourcemap scale:	62500
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	185.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Mississippi embayment aquifer system		
Formation type:	Sparta Sand		
Aquifer type:	Confined single aquifer		
Construction date:	19650101	Welldepth:	654
Welldepth units:	ft	Wellholedepth:	670
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

	Feet below	Feet to
Date	Surface	Sealevel

1965-11-08 206.00

J31
West
1/2 - 1 Mile
Higher

LA WELLS 1073006002

Site Name:	WELL #1		
Site ID:	002		
Public Water Sys. ID:	1073006	Source:	SPARTA
Latitude/Longitude:	3230350 / 9221281	Total Depth:	0640
Diameter:	006	Capacity:	84
Supply Name:	CALHOUN WATER SYSTEM		
	P. O. BOX 165		
	CALHOUN, LA 71225		
Parish:	OUACHITA	FIPS County Code:	073
Owner:	CALHOUN WATER SYSTEM	System Type:	Comm
Contact1:	RICHARD PUCKETT, PRES./OPERATR		
Telephone1:	(318) 644 - 7202		
Contact2:	SAMPLE COLLECTION U.D.S.		
Telephone2:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

K32

SE

1/2 - 1 Mile

Higher

FED USGS

USGS40000413855

Org. Identifier:	USGS-LA		
Formal name:	USGS Louisiana Water Science Center		
Monloc Identifier:	USGS-323001092200801		
Monloc name:	Ou- 527		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	08040207	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	32.5004247
Longitude:	-92.335696	Sourcemap scale:	62500
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	180.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Mississippi embayment aquifer system		
Formation type:	Cockfield Formation of Claiborne Group		
Aquifer type:	Not Reported		
Construction date:	19810729	Welldepth:	88
Welldepth units:	ft	Wellholedepth:	91
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1981-07-31	53.35	

K33

SE

1/2 - 1 Mile

Higher

LA WELLS

LATD40000192721

Water well1:	464430		
Water well2:	073-527	State code:	22
Parish num:	073	Local well:	527
Identifica:	323001092200801	Latitude:	323001
Longitude:	922008	Sequence n:	01
Owners nam:	U S GEOL SURVEY	Well depth:	88
Well use:	O	Well subus:	D
Date compl:	07/81	Geologic u:	124CCKF
Available :	Driller Log, Quality of Water, Water Level		
Revised la:	Not Reported	Revised lo:	Not Reported
Elec log:	Not Reported	Drill log:	D
Mechanic a:	Not Reported	Chem analy:	Q
Bio analys:	Not Reported	Pump test:	Not Reported
Avail info:	W	Drillers 1:	U.S.G.S.
Drillers 2:	002	Section:	035
Township:	18N	Range:	01E
Hole depth:	91	Elevation:	180
Quad num:	034	Water leve:	53.35
Date measu:	07/31/81	Source of :	A
Date of ad:	1998-10-23	Date regis:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Date plugg:	Not Reported	Plugged b1:	Not Reported
Plugged b2:	Not Reported	Yield:	Not Reported
Drawdown:	Not Reported	Casing di1:	2
Casing mat:	METAL	Screen di1:	2
Screen int:	83-88	Serial num:	Not Reported
Owners num:	2	Latitude d:	0
Latitude m:	0		
Latitude s:	0		
Longitude1:	0	Longitude2:	0
Longitude3:	Not Reported		
Comments:	WELL DESTROYED--SEE USGS FIELD REPORT DATED 07/27/98.		
Create dat:	2010 720	Create use:	SONRIS_DBA
Update dat:	2012 130	Update use:	SONRIS_DBA
Parish cod:	37	Industria1:	Not Reported
Owner stat:	Not Reported	Replacemen:	Not Reported
Industria2:	Not Reported	Public su1:	Not Reported
Public su2:	Not Reported	Pumpdown c:	Not Reported
Extension1:	Not Reported	Extension2:	Not Reported
Extension3:	Not Reported	Screen typ:	Not Reported
Gravel pac:	N	Ground eve:	Not Reported
Diameter o:	Not Reported	Site city:	Not Reported
Site zip:	Not Reported	Site addre:	Not Reported
Remarks:	Not Reported		
Authorize1:	Not Reported	Authorize2:	0
Heat pump1:	0		
Heat pump2:	Not Reported	Location l:	Not Reported
Location m:	0		
Location c:	Not Reported	Cemented f:	Not Reported
Slot lengt:	Not Reported	Slot size:	Not Reported
Inspector:	Not Reported		
Inspector :	Not Reported		
Inspection:	0	Pump setti:	Not Reported
Pump motor:	Not Reported	Pump plan1:	0
Pump plan2:	0	Pump plan3:	Not Reported
Pump rate:	Not Reported	Yield meas:	Not Reported
Pump hour1:	0	Pump hour2:	0
Pump stati:	Not Reported	Pump deter:	Not Reported
Pump groun:	Not Reported	Pump test :	0
X longdd:	-92.33555556		
Y latdd:	32.50027778		
Pump down :	Not Reported		
Pa remarks:	Not Reported		
Pa signat1:	Not Reported	Pa signat2:	0
Pa details:	Not Reported		
Casing di2:	Not Reported	Casing len:	Not Reported
Contact:	Not Reported	Casing di3:	Not Reported
Screen di2:	Not Reported		
Wwo seq nu:	0		
Screen di3:	Not Reported	Parish nam:	OUACHITA
Aquifer na:	COCKFIELD AQUIFER		
Use descri:	destroyed observation		
Well statu:	Destroyed	Site id:	LATD40000192721

34
NNW
1/2 - 1 Mile
Higher

LA WELLS LATD40000197990

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Water well1:	464700	State code:	22
Water well2:	073-5113Z	Local well:	5113Z
Parish num:	073	Latitude:	323131
Identifica:	323131092205201	Sequence n:	01
Longitude:	922052	Well depth:	545
Owners nam:	SAWYER DRLG	Well subus:	PA
Well use:	S	Geologic u:	124SPRT
Date compl:	01/86		
Available :	Driller Log	Revised lo:	Not Reported
Revised la:	Not Reported	Drill log:	D
Elec log:	Not Reported	Chem analy:	Not Reported
Mechanic a:	Not Reported	Pump test:	Not Reported
Bio analys:	Not Reported	Drillers 1:	TALLEY, JOHN L.
Avail info:	Not Reported	Section:	022
Drillers 2:	006	Range:	01E
Township:	18N	Elevation:	165
Hole depth:	545	Water leve:	0.00
Quad num:	034D	Source of :	Not Reported
Date measu:	Not Reported	Date regis:	09/86
Date of ad:	1996-10-17	Plugged b1:	SCRUGGS, INC.
Date plugg:	05/87	Yield:	Not Reported
Plugged b2:	208	Casing di1:	4
Drawdown:	Not Reported	Screen di1:	4
Casing mat:	PLASTIC	Serial num:	Not Reported
Screen int:	505-545	Latitude d:	0
Owners num:	BOYD 1		
Latitude m:	0	Longitude2:	0
Latitude s:	0		
Longitude1:	0	Create use:	SONRIS_DBA
Longitude3:	Not Reported	Update use:	SONRIS_DBA
Create dat:	2010 720	Industria1:	Not Reported
Update dat:	2012 130	Replacemen:	Not Reported
Parish cod:	37	Public su1:	Not Reported
Owner stat:	Not Reported	Pumpdown c:	Not Reported
Industria2:	Not Reported	Extension2:	Not Reported
Public su2:	Not Reported	Screen typ:	Not Reported
Extension1:	Not Reported	Ground eve:	Not Reported
Extension3:	Not Reported	Site city:	Not Reported
Gravel pac:	N	Site addre:	Not Reported
Diameter o:	Not Reported		
Site zip:	Not Reported	Authorize2:	0
Remarks:	Not Reported		
Authorize1:	Not Reported	Location l:	Not Reported
Heat pump1:	0		
Heat pump2:	Not Reported	Cemented f:	Not Reported
Location m:	0	Slot size:	Not Reported
Location c:	Not Reported		
Slot lengt:	Not Reported	Pump setti:	Not Reported
Inspector:	Not Reported	Pump plan1:	0
Inspector :	Not Reported	Pump plan3:	Not Reported
Inspection:	0	Yield meas:	Not Reported
Pump motor:	Not Reported	Pump hour2:	0
Pump plan2:	0	Pump deter:	Not Reported
Pump rate:	Not Reported	Pump test :	0
Pump hour1:	0		
Pump stati:	Not Reported		
Pump groun:	Not Reported		
X longdd:	-92.34777778		
Y latdd:	32.52527778		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pump down :	Not Reported		
Pa remarks:	Not Reported		
Pa signat1:	Not Reported	Pa signat2:	0
Pa details:	Not Reported		
Casing di2:	Not Reported	Casing len:	Not Reported
Contact:	Not Reported	Casing di3:	Not Reported
Screen di2:	Not Reported		
Wwo seq nu:	0		
Screen di3:	Not Reported	Parish nam:	OUACHITA
Aquifer na:	SPARTA AQUIFER		
Use descri:	plugged and abandoned rig supply		
Well statu:	Plugged and Abandoned	Site id:	LATD40000197990

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

A1

South

1/4 - 1/2 Mile

OIL_GAS

LAOG90000163941

Objectid: 163941
Wlc line id: 1
Received date: 01-APR-1997
Lambert y: 668575
Create date: 02-MAY-1999
Update date: 06-OCT-2009
Coordinate sourc: 03
Ground elevation: Not Reported
Longmin: 0
Latsec: 0
Latdeg: 0
Longdd: Not Reported
G utmx: 561682.404720977
Glaty: 32.5047172193416
Column28: Not Reported
Calcglongx: -92.3433511264348
Calcglaty: 32.5047172193416
Site id: LAOG90000163941

Well serial num: 220262
Coordinate syste: 01
Lambert x: 2048343
Zone : N
Create username: CONVALL
Update username: OPS\$OOC
Coordinate prior: Not Reported
Longsec: 0
Longdeg: 0
Latmin: 0
Latdd: Not Reported
Coordval: 17
G utmy: 3596571.96748336
Glongx: -92.3433511264348

A2

South

1/4 - 1/2 Mile

OIL_GAS

LAOG90000220196

Objectid: 220196
Wlc line id: 2
Received date: 07-OCT-2003
Lambert y: 668525
Create date: 08-OCT-2003
Update date: 24-NOV-2011
Coordinate sourc: 05
Ground elevation: 135.6
Longmin: Not Reported
Latsec: Not Reported
Latdeg: Not Reported
Longdd: 92.34299
G utmx: 561703.311031061
Glaty: 32.504556320469
Column28: Not Reported
Calcglongx: -92.3431297386379
Calcglaty: 32.504556320469
Site id: LAOG90000220196

Well serial num: 220262
Coordinate syste: 01
Lambert x: 2048407
Zone : N
Create username: SONRIS_DBA
Update username: CON_USER
Coordinate prior: 1
Longsec: Not Reported
Longdeg: Not Reported
Latmin: Not Reported
Latdd: 32.50441
Coordval: 9
G utmy: 3596554.25912662
Glongx: -92.3431297386379

B3

NE

1/2 - 1 Mile

OIL_GAS

LAOG90000050391

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Objectid: 50391
Wlc line id: 1
Received date: 01-DEC-1976
Lambert y: 673107
Create date: 02-MAY-1999
Update date: 24-NOV-2011
Coordinate sourc: 03
Ground elevation: Not Reported
Longmin: 20
Latsec: 1.199
Latdeg: 32
Longdd: Not Reported
G utmx: 562069.378558892
Glaty: 32.5171454826346
Column28: Not Reported
Calcglongx: -92.3391406933781
Calcglaty: 32.5171454826346
Site id: LAOG90000050391

Well serial num: 76701
Coordinate syste: 01
Lambert x: 2049630
Zone : N
Create username: CONVALL
Update username: CON_USER
Coordinate prior: 1
Longsec: 20.399
Longdeg: 92
Latmin: 31
Latdd: Not Reported
Coordval: 17
G utmy: 3597952.14094898
Glongx: -92.3391406933781

B5
NE

1/2 - 1 Mile

OIL_GAS

LAOG90000085806

Objectid: 85806
Wlc line id: 1
Received date: 01-DEC-1972
Lambert y: 673107
Create date: 02-MAY-1999
Update date: 24-NOV-2011
Coordinate sourc: 03
Ground elevation: Not Reported
Longmin: 20
Latsec: 1.199
Latdeg: 32
Longdd: Not Reported
G utmx: 562125.748173075
Glaty: 32.5171447176142
Column28: Not Reported
Calcglongx: -92.338540536998
Calcglaty: 32.5171447176142
Site id: LAOG90000085806

Well serial num: 123228
Coordinate syste: 01
Lambert x: 2049815
Zone : N
Create username: CONVALL
Update username: CON_USER
Coordinate prior: 1
Longsec: 18.239
Longdeg: 92
Latmin: 31
Latdd: Not Reported
Coordval: 17
G utmy: 3597952.40591277
Glongx: -92.338540536998

B4
NE

1/2 - 1 Mile

OIL_GAS

LAOG90000049006

Objectid: 49006
Wlc line id: 1
Received date: 01-DEC-1972
Lambert y: 673107
Create date: 02-MAY-1999
Update date: 24-NOV-2011
Coordinate sourc: 03
Ground elevation: Not Reported
Longmin: 20
Latsec: 1.199

Well serial num: 74245
Coordinate syste: 01
Lambert x: 2049815
Zone : N
Create username: CONVALL
Update username: CON_USER
Coordinate prior: 1
Longsec: 18.239
Longdeg: 92
Latmin: 31

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Latdeg: 32
Longdd: Not Reported
G utmx: 562125.748173075
Glaty: 32.5171447176142
Column28: Not Reported
Calcglongx: -92.338540536998
Calcglaty: 32.5171447176142
Site id: LAOG90000049006

Latdd: Not Reported
Coordval: 17
G utmy: 3597952.40591277
Glongx: -92.338540536998

6 WSW

1/2 - 1 Mile

OIL_GAS

LAOG90000055503

Objectid: 55503
Wlc line id: 1
Received date: 01-DEC-1972
Lambert y: 669826
Create date: 02-MAY-1999
Update date: 24-NOV-2011
Coordinate sourc: 03
Ground elevation: Not Reported
Longmin: 21
Latsec: 28.8
Latdeg: 32
Longdd: Not Reported
G utmx: 560732.189915271
Glaty: 32.5081446627789
Column28: Not Reported
Calcglongx: -92.3534420609526
Calcglaty: 32.5081446627789
Site id: LAOG90000055503

Well serial num: 83553
Coordinate syste: 01
Lambert x: 2045226
Zone : N
Create username: CONVALL
Update username: CON_USER
Coordinate prior: 1
Longsec: 11.879
Longdeg: 92
Latmin: 30
Latdd: Not Reported
Coordval: 17
G utmy: 3596946.12123751
Glongx: -92.3534420609526

C7 SSE

1/2 - 1 Mile

OIL_GAS

LAOG90000047624

Objectid: 47624
Wlc line id: 1
Received date: 01-DEC-1976
Lambert y: 667686
Create date: 02-MAY-1999
Update date: 24-NOV-2011
Coordinate sourc: 03
Ground elevation: Not Reported
Longmin: 20
Latsec: 7.559
Latdeg: 32
Longdd: Not Reported
G utmx: 562117.081350713
Glaty: 32.5022447020809
Column28: Not Reported
Calcglongx: -92.3387418968918
Calcglaty: 32.5022447020809
Site id: LAOG90000047624

Well serial num: 73298
Coordinate syste: 01
Lambert x: 2049761
Zone : N
Create username: CONVALL
Update username: CON_USER
Coordinate prior: 1
Longsec: 18.959
Longdeg: 92
Latmin: 30
Latdd: Not Reported
Coordval: 17
G utmy: 3596300.55396988
Glongx: -92.3387418968918

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

C8

SSE

1/2 - 1 Mile

OIL_GAS

LAOG90000048057

Objectid: 48057
Wlc line id: 1
Received date: 01-NOV-1977
Lambert y: 667686
Create date: 02-MAY-1999
Update date: 24-NOV-2011
Coordinate sourc: 03
Ground elevation: Not Reported
Longmin: 20
Latsec: 7.559
Latdeg: 32
Longdd: Not Reported
G utmx: 562117.081350713
Glaty: 32.5022447020809
Column28: Not Reported
Calcglongx: -92.3387418968918
Calcglaty: 32.5022447020809
Site id: LAOG90000048057

Well serial num: 74812
Coordinate syste: 01
Lambert x: 2049761
Zone : N
Create username: CONVALL
Update username: CON_USER
Coordinate prior: 1
Longsec: 18.959
Longdeg: 92
Latmin: 30
Latdd: Not Reported
Coordval: 17
G utmy: 3596300.55396988
Glongx: -92.3387418968918

D9

WNW

1/2 - 1 Mile

OIL_GAS

LAOG90000050262

Objectid: 50262
Wlc line id: 1
Received date: 01-DEC-1976
Lambert y: 672845
Create date: 02-MAY-1999
Update date: 24-NOV-2011
Coordinate sourc: 03
Ground elevation: Not Reported
Longmin: 21
Latsec: 58.679
Latdeg: 32
Longdd: Not Reported
G utmx: 560613.89701005
Glaty: 32.5164441296343
Column28: Not Reported
Calcglongx: -92.3546420921209
Calcglaty: 32.5164441296343
Site id: LAOG90000050262

Well serial num: 77354
Coordinate syste: 01
Lambert x: 2044852
Zone : N
Create username: CONVALL
Update username: CON_USER
Coordinate prior: 1
Longsec: 16.199
Longdeg: 92
Latmin: 30
Latdd: Not Reported
Coordval: 17
G utmy: 3597865.47111409
Glongx: -92.3546420921209

D10

WNW

1/2 - 1 Mile

OIL_GAS

LAOG90000052653

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Objectid: 52653
Wlc line id: 1
Received date: 01-OCT-1976
Lambert y: 672845
Create date: 02-MAY-1999
Update date: 24-NOV-2011
Coordinate sourc: 03
Ground elevation: Not Reported
Longmin: 21
Latsec: 58.679
Latdeg: 32
Longdd: Not Reported
G utmx: 560613.89701005
Glaty: 32.5164441296343
Column28: Not Reported
Calcglongx: -92.3546420921209
Calcglaty: 32.5164441296343
Site id: LAOG90000052653

Well serial num: 75835
Coordinate syste: 01
Lambert x: 2044852
Zone : N
Create username: CONVALL
Update username: CON_USER
Coordinate prior: 1
Longsec: 16.199
Longdeg: 92
Latmin: 30
Latdd: Not Reported
Coordval: 17
G utmy: 3597865.47111409
Glongx: -92.3546420921209

D11 WNW 1/2 - 1 Mile

OIL_GAS LAOG90000047730

Objectid: 47730
Wlc line id: 1
Received date: 01-NOV-1977
Lambert y: 672882
Create date: 02-MAY-1999
Update date: 24-NOV-2011
Coordinate sourc: 03
Ground elevation: Not Reported
Longmin: 21
Latsec: 59.039
Latdeg: 32
Longdd: Not Reported
G utmx: 560585.506676992
Glaty: 32.5165461751428
Column28: Not Reported
Calcglongx: -92.3549436294022
Calcglaty: 32.5165461751428
Site id: LAOG90000047730

Well serial num: 72538
Coordinate syste: 01
Lambert x: 2044759
Zone : N
Create username: CONVALL
Update username: CON_USER
Coordinate prior: 1
Longsec: 17.28
Longdeg: 92
Latmin: 30
Latdd: Not Reported
Coordval: 17
G utmy: 3597876.6117673
Glongx: -92.3549436294022

D12 WNW 1/2 - 1 Mile

OIL_GAS LAOG90000053950

Objectid: 53950
Wlc line id: 1
Received date: 01-DEC-1976
Lambert y: 672882
Create date: 02-MAY-1999
Update date: 24-NOV-2011
Coordinate sourc: 03
Ground elevation: Not Reported
Longmin: 21
Latsec: 59.039

Well serial num: 81034
Coordinate syste: 01
Lambert x: 2044759
Zone : N
Create username: CONVALL
Update username: CON_USER
Coordinate prior: 1
Longsec: 17.28
Longdeg: 92
Latmin: 30

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Latdeg:	32	Latdd:	Not Reported
Longdd:	Not Reported	Coordval:	17
G utmx:	560585.506676992	G utmy:	3597876.6117673
Glaty:	32.5165461751428	Glongx:	-92.3549436294022
Column28:	Not Reported		
Calcglongx:	-92.3549436294022		
Calcglaty:	32.5165461751428		
Site id:	LAOG90000053950		

E14

SW

1/2 - 1 Mile

OIL_GAS

LAOG90000058330

Objectid:	58330	Well serial num:	86391
Wlc line id:	1	Coordinate syste:	01
Received date:	01-DEC-1976	Lambert x:	2044519
Lambert y:	667861	Zone :	N
Create date:	02-MAY-1999	Create username:	CONVALL
Update date:	24-NOV-2011	Update username:	CON_USER
Coordinate sourc:	03	Coordinate prior:	1
Ground elevation:	Not Reported	Longsec:	20.159
Longmin:	21	Longdeg:	92
Latsec:	9.359	Latmin:	30
Latdeg:	32	Latdd:	Not Reported
Longdd:	Not Reported	Coordval:	17
G utmx:	560519.587445547	G utmy:	3596346.37659296
Glaty:	32.5027462647426	Glongx:	-92.3557438939949
Column28:	Not Reported		
Calcglongx:	-92.3557438939949		
Calcglaty:	32.5027462647426		
Site id:	LAOG90000058330		

E13

SW

1/2 - 1 Mile

OIL_GAS

LAOG90000055740

Objectid:	55740	Well serial num:	85072
Wlc line id:	1	Coordinate syste:	01
Received date:	01-DEC-1976	Lambert x:	2044519
Lambert y:	667861	Zone :	N
Create date:	02-MAY-1999	Create username:	CONVALL
Update date:	24-NOV-2011	Update username:	CON_USER
Coordinate sourc:	03	Coordinate prior:	1
Ground elevation:	Not Reported	Longsec:	20.159
Longmin:	21	Longdeg:	92
Latsec:	9.359	Latmin:	30
Latdeg:	32	Latdd:	Not Reported
Longdd:	Not Reported	Coordval:	17
G utmx:	560519.587445547	G utmy:	3596346.37659296
Glaty:	32.5027462647426	Glongx:	-92.3557438939949
Column28:	Not Reported		
Calcglongx:	-92.3557438939949		
Calcglaty:	32.5027462647426		
Site id:	LAOG90000055740		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

E15

SW

1/2 - 1 Mile

OIL_GAS

LAOG90000088620

Objectid: 88620
Wlc line id: 1
Received date: 01-DEC-1972
Lambert y: 668006
Create date: 02-MAY-1999
Update date: 24-NOV-2011
Coordinate sourc: 03
Ground elevation: Not Reported
Longmin: 21
Latsec: 10.8
Latdeg: 32
Longdd: Not Reported
G utmx: 560406.640184799
Glaty: 32.5031461803993
Column28: Not Reported
Calcglongx: -92.3569433975499
Calcglaty: 32.5031461803993
Site id: LAOG90000088620

Well serial num: 128451
Coordinate syste: 01
Lambert x: 2044149
Zone : N
Create username: CONVALL
Update username: CON_USER
Coordinate prior: 1
Longsec: 24.479
Longdeg: 92
Latmin: 30
Latdd: Not Reported
Coordval: 17
G utmy: 3596390.02866132
Glongx: -92.3569433975499

F17

SW

1/2 - 1 Mile

OIL_GAS

LAOG90000050033

Objectid: 50033
Wlc line id: 1
Received date: 01-DEC-1972
Lambert y: 667533
Create date: 02-MAY-1999
Update date: 24-NOV-2011
Coordinate sourc: 03
Ground elevation: Not Reported
Longmin: 21
Latsec: 6.119
Latdeg: 32
Longdd: Not Reported
G utmx: 560407.623773357
Glaty: 32.5018460779915
Column28: Not Reported
Calcglongx: -92.3569421797972
Calcglaty: 32.5018460779915
Site id: LAOG90000050033

Well serial num: 72479
Coordinate syste: 01
Lambert x: 2044150
Zone : N
Create username: CONVALL
Update username: CON_USER
Coordinate prior: 1
Longsec: 24.479
Longdeg: 92
Latmin: 30
Latdd: Not Reported
Coordval: 17
G utmy: 3596245.90751548
Glongx: -92.3569421797972

F16

SW

1/2 - 1 Mile

OIL_GAS

LAOG90000044558

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Objectid: 44558
Wlc line id: 1
Received date: 01-DEC-1972
Lambert y: 667533
Create date: 02-MAY-1999
Update date: 24-NOV-2011
Coordinate sourc: 03
Ground elevation: Not Reported
Longmin: 21
Latsec: 6.119
Latdeg: 32
Longdd: Not Reported
G utmx: 560407.623773357
Glaty: 32.5018460779915
Column28: Not Reported
Calcglongx: -92.3569421797972
Calcglaty: 32.5018460779915
Site id: LAOG90000044558

Well serial num: 67701
Coordinate syste: 01
Lambert x: 2044150
Zone : N
Create username: CONVALL
Update username: CON_USER
Coordinate prior: 1
Longsec: 24.479
Longdeg: 92
Latmin: 30
Latdd: Not Reported
Coordval: 17
G utmy: 3596245.90751548
Glongx: -92.3569421797972

F18 SW

1/2 - 1 Mile

OIL_GAS

LAOG90000162013

Objectid: 162013
Wlc line id: 1
Received date: 01-NOV-1961
Lambert y: 667250
Create date: 02-MAY-1999
Update date: 24-NOV-2011
Coordinate sourc: 03
Ground elevation: Not Reported
Longmin: 21
Latsec: 3.312
Latdeg: 32
Longdd: Not Reported
G utmx: 560487.252016484
Glaty: 32.5010672591372
Column28: Not Reported
Calcglongx: -92.3561000765046
Calcglaty: 32.5010672591372
Site id: LAOG90000162013

Well serial num: 970172
Coordinate syste: 01
Lambert x: 2044410
Zone : N
Create username: CONVALL
Update username: CON_USER
Coordinate prior: 1
Longsec: 21.452
Longdeg: 92
Latmin: 30
Latdd: Not Reported
Coordval: 17
G utmy: 3596160.04957977
Glongx: -92.3561000765046

19

West

1/2 - 1 Mile

OIL_GAS

LAOG90000218003

Objectid: 218003
Wlc line id: 2
Received date: 07-OCT-2003
Lambert y: 671115
Create date: 08-OCT-2003
Update date: 24-NOV-2011
Coordinate sourc: 05
Ground elevation: 172
Longmin: Not Reported
Latsec: Not Reported

Well serial num: 219395
Coordinate syste: 01
Lambert x: 2042866
Zone : N
Create username: SONRIS_DBA
Update username: CON_USER
Coordinate prior: 1
Longsec: Not Reported
Longdeg: Not Reported
Latmin: Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Latdeg:	Not Reported	Latdd:	32.51155
Longdd:	92.36095	Coordval:	9
G utmx:	560011.246894311	G utmy:	3597335.50164025
Glaty:	32.5116962839921	Glongx:	-92.3610919999276
Column28:	Not Reported		
Calcglongx:	-92.3610919999276		
Calcglaty:	32.5116962839921		
Site id:	LAOG90000218003		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: LA Radon

Radon Test Results

Parish	Avg pCi/L	Total Sites
OUACHITA	0.60682	44

Federal EPA Radon Zone for OUACHITA County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 71225

Number of sites tested: 4

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.225 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Louisiana Public Water Supply Wells

Source: Office of Public Health

Telephone: 504-568-5101

Water Well Registration Data File

Source: Department of Transportation and Development

Telephone: 225-274-4172

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database

Source: Department of Natural Resources

Telephone: 225-342-1977

Oil and gas well locations in Louisiana.

RADON

State Database: LA Radon

Source: Department of Environmental Quality

Telephone: 225-925-1752

Radon Levels

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRRA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

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APPENDIX E – HISTORICAL RECORDS DOCUMENTATION

AERIAL PHOTOGRAPHS



Historical Aerial Photographs

Target Property:

***South Tract
321 Highway 80 East
Calhoun, Ouachita Parish, Louisiana 71225***

Prepared For:

PPM Consultants-Birmingham

Order #: 81388

Job #: 176308

Project #: 11452003

Date: 02/17/2017

TARGET PROPERTY SUMMARY

South Tract

321 Highway 80 East

Calhoun, Ouachita Parish, Louisiana 71225

USGS Quadrangle: **Calhoun, LA**

Target Property Geometry: **Point**

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

(-92.345002, 32.511173)

County/Parish Covered:

Ouachita (LA)

Zipcode(s) Covered:

Calhoun LA: 71225

State(s) Covered:

LA

***Target property is located in Radon Zone 3.**

Zone 3 areas have a predicted average indoor radon screening level less than 2 pCi/L (picocuries per liter).

Disclaimer - 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.



JOB #: 176308 - 2/17/2017

SITE: SOUTH TRACT
SOURCE: USDA
DATE: 2015
COUNTY: OUACHITA PARISH
SCALE: 1" = 500'

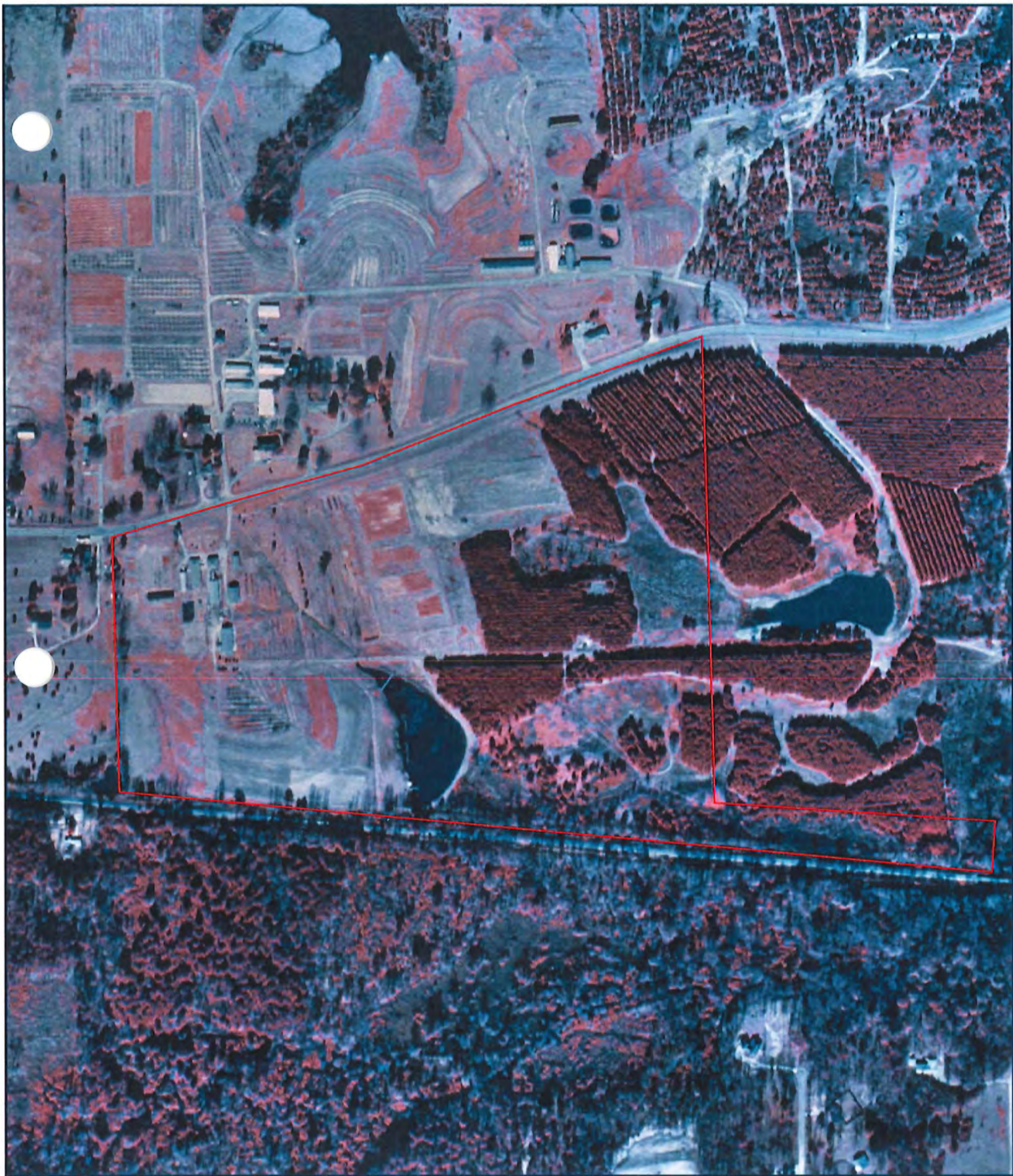
GeoSearch



JOB #: 176308 • 2/17/2017

SITE: SOUTH TRACT
SOURCE: USGS
DATE: 2004
COUNTY: OUACHITA PARISH
SCALE: 1" = 500'

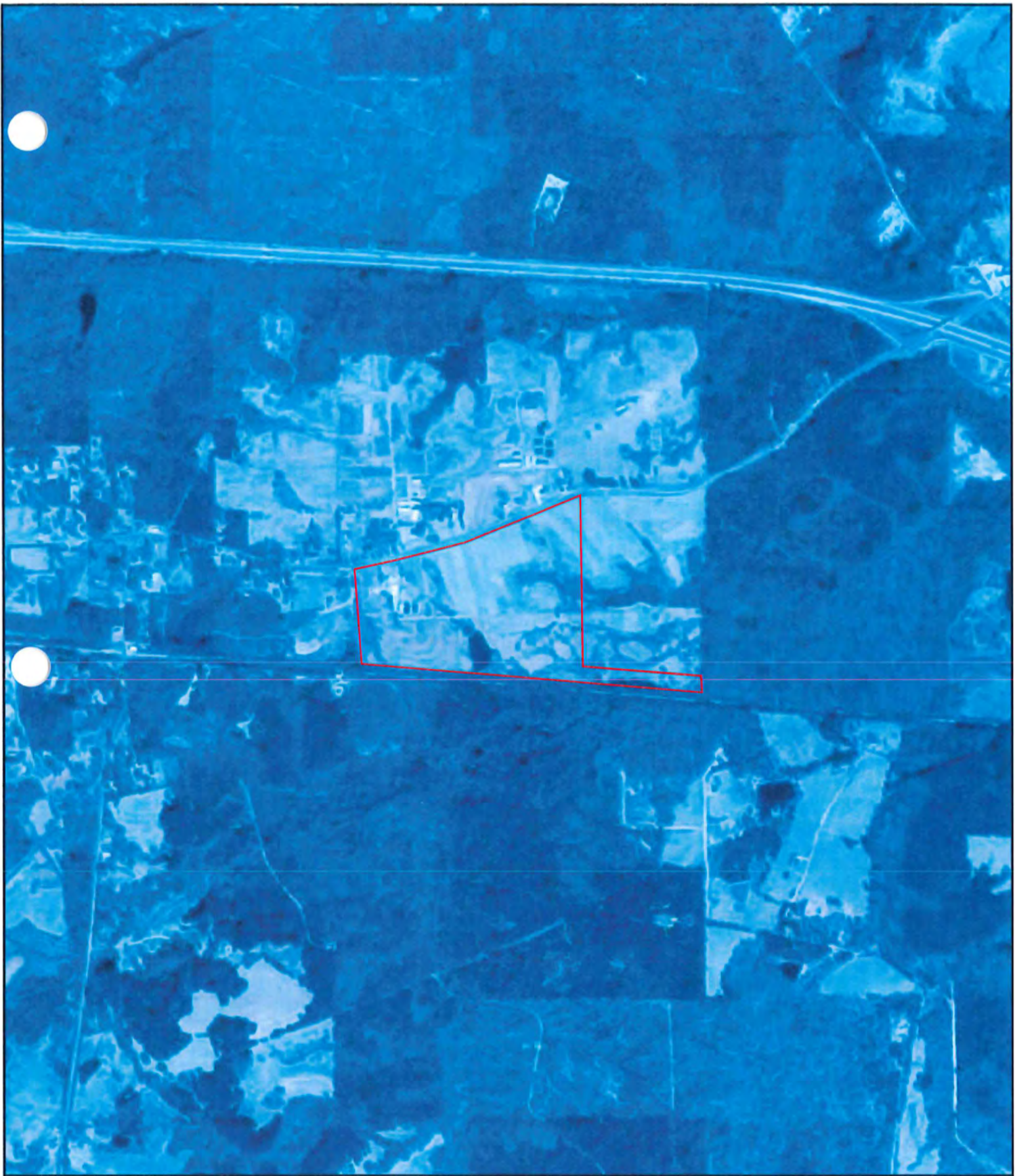
GeoSearch



JOB #: 176308 - 2/17/2017

SITE: SOUTH TRACT
SOURCE: USGS
DATE: 01/11/1999
COUNTY: OUACHITA PARISH
SCALE: 1" = 500'

GeoSearch



JOB #: 176308 - 2/17/2017

SITE: SOUTH TRACT
SOURCE: USGS
DATE: 02/08/1985
COUNTY: OUACHITA PARISH
SCALE: 1" = 1320'

GeoSearch



JOB #: 176308 - 2/17/2017

SITE: SOUTH TRACT
SOURCE: USGS
DATE: 01/08/1976
COUNTY: OUACHITA PARISH
SCALE: 1" = 500'

GeoSearch



JOB #: 176308 - 2/17/2017

SITE: SOUTH TRACT
SOURCE: ASCS
DATE: 11/18/1967
COUNTY: OUACHITA PARISH
SCALE: 1" = 500'

GeoSearch



JOB #: 176308 - 2/17/2017

SITE: SOUTH TRACT
SOURCE: ASCS
DATE: 01/09/1961
COUNTY: OUACHITA PARISH
SCALE: 1" = 500'

GeoSearch



JOB #: 176308 - 2/17/2017

SITE: SOUTH TRACT
SOURCE: ASCS
DATE: 01/21/1951
COUNTY: OUACHITA PARISH
SCALE: 1" = 500'

GeoSearch



JOB #: 176308 - 2/17/2017

SITE: SOUTH TRACT
SOURCE: USGS
DATE: 11/26/1947
COUNTY: OUACHITA PARISH
SCALE: 1" = 500'

GeoSearch

SANBORN MAP

South Tract

321 US Highway 80 East

Calhoun, LA 71225

Inquiry Number: 4854246.5

February 14, 2017

Certified Sanborn® Map Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

02/14/17

Site Name:

South Tract
321 US Highway 80 East
Calhoun, LA 71225
EDR Inquiry # 4854246.5

Client Name:

PPM Consultants Inc.
1600 Lamy Lane
Monroe, LA 71201
Contact: Jordan Harper



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by PPM Consultants Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 6E89-4D24-9233

PO # NA

Project South Tract/ 11452003

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results

Certification #: 6E89-4D24-9233

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☒ Library of Congress
- ☒ University Publications of America
- ☒ EDR Private Collection

The Sanborn Library LLC Since 1866™

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APPENDIX F – OTHER DOCUMENTATION

NORTH TRACT GAS WELL



State of Louisiana

Department of Environmental Quality



M.J. "MIKE" FOSTER, JR.
GOVERNOR

May 29, 2001

J. DALE GIVENS
SECRETARY

CERTIFIED MAIL (7000 0600 0025 0579 5071)
RETURN RECEIPT REQUESTED

LOUISIANA STATE UNIVERSITY AGRICULTURAL CENTER
c/o Chancellor William B. Richardson
101 Efferson Hall
Highland Road
Baton Rouge, LA 70814

**RE: NOTICE OF VIOLATION
ENFORCEMENT TRACKING NO. AE-N-01-0061
AGENCY INTEREST NO. 87122**

Dear Sir:

On or about October 23, 2000, an inspection of **LOUISIANA STATE UNIVERSITY AGRICULTURAL CENTER**, owned and/or operated by **LOUISIANA STATE UNIVERSITY (RESPONDENT)**, was performed to determine the degree of compliance with the Louisiana Environmental Quality Act (the Act) and Air Quality Regulations. The facility is located at 505 U.S. Highway 80 in Calhoun, Ouachita Parish, Louisiana.

While the Department's investigation is not yet complete, the following violations were noted during the course of the inspection:

- A. The Respondent failed to conduct a three-year reinspection of all friable and non-friable known or assumed asbestos containing building materials (ACBM) in each building that it leases, owns, or otherwise uses. This is in violation of Louisiana Air Quality Regulations, in particular LAC 33:III.2707.B.1 and Section 2057(A)(2) of the Act.
- B. The Respondent failed to update the management plan. This is in violation of Louisiana Air Quality Regulations, in particular LAC 33:III.2723.C and Section 2057(A)(2) of the Act.
- C. The Respondent failed to conduct periodic surveillance of all friable and non-friable known or assumed ACBM in each building that it leases, owns, or otherwise uses. This is in violation of Louisiana Air Quality Regulations, in particular LAC 33:III.2721.B.1 and Section 2057(A)(2) of the Act.



recycled paper

OFFICE OF ENVIRONMENTAL COMPLIANCE • P.O. BOX 82215 • BATON ROUGE, LOUISIANA 70884-2215

AN EQUAL OPPORTUNITY EMPLOYER




LSU Agricultural Center
NOV
Page 2

It is requested that you respond in writing within thirty (30) days of receipt of this Notice as to what actions will be taken to address the above noted violations and to prevent future violations of this nature. You may direct your response to Ms. Sonya Hargrave, Environmental Scientist Supervisor, at P.O. Box 82215, Baton Rouge, LA 70884-2215.

Further enforcement action may be taken if compliance is not promptly achieved. For each violation described herein, the Department reserves the right to seek civil penalties and the right to seek compliance with its rules and regulations in any manner allowed by law, and nothing herein shall be construed to preclude the right to seek such penalties and compliance.

To reduce document handling, please refer to the **Enforcement Tracking Number** and **Agency Interest Number** on the front of this document on all correspondence in response to this action.

Sincerely,



Linda Korn Levy
Assistant Secretary

LKL/SMF

**OFFICE OF ENVIRONMENTAL COMPLIANCE
ENFORCEMENT DIVISION
Routing/Approval Slip**

Due date
12-11-01

RE: LSU Ag Center

Alt. ID # NONE

Enforcement Tracking # AE-N-01-0061

AI No. 87122

Diachita Parish

	Initials	Date	Comments
Scatt 3/16/01		Approved	IN-TERPO
Originator	28	11/22/00	4/25/01 SF
Region Supervisor	AB	1/15/01	
HQ Supervisor	ST	4/22/01	
Clerical			
Manager (Mgr.)	SW	5/15/01	
Asst. Admin.			
Analyst	none	4-27-01	Sent back to [unclear] 4/27/01
Legal	DRB	5-09-01	See check
Supv./Originator/Mgr.			given to [unclear] 5-15-01
Analyst	none	5-15-01	Approved by [unclear] 4/27/01
Admin. Analyst	efh	5/21/01	TO RBH
Administrator	OK RBH	5/22/01	
Assistant Secretary	J	5/29	
Admin. Analyst	efh	5/30/01	5/29/01 - TO RBH to sign

Extra Comments/Instructions

RECEIVED

Originator's Name: Zeck, John Phone # (337) 362-5739 Atty's Name: _____

152 27 000
Phone # _____

Inspector's Name: _____ Phone # _____

LA Dept. of Environmental Quality
LEGAL DIVISION

Check what applies: Copies to be made that are not indicated on enforcement action

<input checked="" type="checkbox"/> Facility	<input type="checkbox"/> Main File
<input type="checkbox"/> Originator	<input type="checkbox"/> Ben Potter
<input type="checkbox"/> Inspector	<input type="checkbox"/> Mike Algero
<input type="checkbox"/> Analyst	<input type="checkbox"/> 2 copies to Eddie
<input checked="" type="checkbox"/> Region <u>NERO</u>	<input type="checkbox"/> Other
<input type="checkbox"/> Reading File	ATTORNEY: <u>Broussard</u>

DATE DUE: 5/11/01



State of Louisiana
Department of Environmental Quality



M.J. "MIKE" FOSTER, JR.
GOVERNOR

SMALL SOURCE PERMIT

J. DALE GIVENS
SECRETARY

Oil and Natural Gas Production
(Type of Facility)

COMPANY NAME: Seagull Mid-South, Inc. **FACILITY:** LSU No. 1 - 26

LOCATION: Calhoun Ouachita UTM 15 562.049 3597.62
(City) (Parish) Zone Km E Km N

Approximately 1.2 miles east of Calhoun in rural Ouachita Parish.
(Physical Location)

TYPE OF SOURCE: Yes Existing New Modified

CONTACT: Mr. Douglas G. Krenek Production Manager (713) 951-4700
(Name) (Title) (Phone)

MAILING ADDRESS: 1001 Fannin - Suite 1700 (P. O. Box)
(Street)
Houston Texas 77002
(City) (State) (Zip Code)

DESCRIPTION: Operate an oil and gas production facility for the separation of oil, gas, and water produced by the LSU No. 1 - 26 well. This facility will consist of: a gas compressor, line heater, separator, storage tank, and truck loading station.

EMISSIONS SUMMARY
(Tons per year)

<u>POLLUTANT</u>	<u>PROPOSED</u>
PM ₁₀	0.02
SO ₂	< 0.01
NO _x	14.76
CO	2.64
VOC	3.78

ANNUAL PRODUCTION RATES

(Crude Oil 1,460 bbl) (Natural Gas 142.70 MM cf)
(Product) (Units/yr) (Product) (Units/yr)



OFFICE OF AIR QUALITY P.O. BOX 82135 BATON ROUGE, LOUISIANA 70884-2135

AN EQUAL OPPORTUNITY EMPLOYER



SMALL SOURCE PERMIT
Page Two

LSU NO.1 - 26 PRODUCTION FACILITY
SEAGULL MID-SOUTH, INC.
CALHOUN, OUACHITA PARISH, LOUISIANA

EMISSION POINTS

ID No.:	DESCRIPTION	MAX OPER. RATE or TANK CAPACITY	Hr/Da/Wk
<u>01</u>	<u>Gas Compresor - 100 HP</u>	<u>0.79 MM BTU/hr</u>	<u>24/07/52</u>
<u>02</u>	<u>Line Heater</u>	<u>0.50 MM BTU/hr</u>	<u>24/07/52</u>
<u>03</u>	<u>Oil Storage Tank - FR</u>	<u>210 bbl</u>	<u>24/07/52</u>
<u>04</u>	<u>Oil Transporter Truck Loading</u>	<u>1,460 bbl/yr</u>	<u>25 hr/yr</u>
<u>05</u>	<u>Fugitive Emissions</u>	<u>NA</u>	<u>24/07/52</u>

EMISSION RATES - TPY

ID No.:	PM₁₀	SO₂	NO_x	VOC	CO	OTHER		
<u>01</u>	<u>-</u>	<u><0.01</u>	<u>14.57</u>	<u>2.12</u>	<u>2.60</u>	<u>-</u>	<u>-</u>	<u>-</u>
<u>02</u>	<u>0.02</u>	<u><0.01</u>	<u>0.19</u>	<u>0.01</u>	<u>0.04</u>	<u>-</u>	<u>-</u>	<u>-</u>
<u>03</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>1.37</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
<u>04</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>0.07</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
<u>05</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>0.21</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
TOTALS	0.02	<0.01	14.76	3.78	2.64	-	-	-

EMISSION CONTROLS

ID No.:	CONTROL DESCRIPTION	DESIGN EFFICIENCY
<u>All</u>	<u>None</u>	<u>-</u>

SMALL SOURCE PERMIT
Page Three

LSU NO.1 - 26 PRODUCTION FACILITY
SEAGULL MID-SOUTH, INC.
CALHOUN, OUACHITA PARISH, LOUISIANA

The potential to emit VOCs above 25 tons per year from tank truck loading is limited by current production capability of the producing reservoir. Current level of condensate production handled by this facility is approximately 4 barrels per day. A load rate of approximately 1,217 barrels per day would be required to generate VOC emissions of 25 tons per year.

This application, which was dated October 22, 1996, was reviewed for compliance with Louisiana Air Quality Regulations. Prevention of Significant Deterioration, NSPS, and NESHAP do not apply.

This facility is a minor source of toxic air pollutants.

A permit for the above referenced facility is hereby approved under LAC 33:III.503.B.2 subject to the general conditions attached.

Permit No.: 2160-00081-00


Gustave A. Von Bodungen, P.E.
Assistant Secretary

2/7/97
Date

GVB:CO

c: Northeast Regional Office

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.503.B.2. If the emissions are determined to be greater than those allowed by the permit or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The attached data and/or Emission Inventory Questionnaire sheets establish the emission and operating limitations and are a part of the permit. The synopsis and data sheets are based on the application and Emission Inventory Questionnaire dated October 22, 1996.
- IV. This permit shall become invalid, for the sources not constructed, if:

- A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
- B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.

The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.

This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.

- V. The permittee shall submit semi-annual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Louisiana Air Quality Division.

- VI. The permittee shall notify the Department of Environmental Quality, Air Quality Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.
- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Division's test manual or any other methods approved by the U.S. EPA. Any deviation from or modification of methods used for testing shall have prior approval from the Louisiana Air Quality Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate, but in no event later than 180 days after initial start-up (or restart-up after modification). The Air Quality Division Surveillance Section shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Division within forty-five (45) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling reports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up of each project or unit, report to the Louisiana Air Quality Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

Air Quality Division with the following information in writing within five (5) days of such conditions:

- A. Description of noncomplying emission(s);
- B. Cause of noncompliance;
- C. Anticipated time the noncompliance is expected to continue, or, if corrected, the duration of the period of noncompliance;
- D. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
- E. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.

XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:

- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
- B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
- C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
- D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.

XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.

XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITONS**

thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.

XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919.E as well as notification requirements specified under LAC 33:III.927.

XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Louisiana Air Quality Division, within ninety (90) days after the event, to amend this permit.

XVII. Typical emissions associated with routine operations that are under control upon release, that are predictable in nature, and that are quantifiable as described in this permit application, are considered authorized discharges. Any significant deviation from the emissions specified in the permit application for such discharges, by event, shall be reported to the department according to LAC 33:I.3901. Actual emissions resulting from such activities must be reported to the department on an annual basis. These emissions are not reflected in the permit totals as they are short term and/or intermittent in duration and have no significant impact on air quality. Examples of such events include but are not limited to cleaning equipment, startups, shutdowns, opening off-line equipment (dual units), and releases to control devices such as flares or incinerators. This permit condition does not authorize the maintenance of a nuisance or a danger to public health and safety.

18247

AIR QUALITY DIVISION PERMIT ROUTING/APPROVAL SLIP

WP file: 18247/22.5ms

	APPROVED	DATE RECEIVED	DATE FORWARDED	COMMENTS
VIEWER	<u>SP</u>	<u>10-25-96</u>	<u>1-24-97</u>	
AKUNPANYA	<u>SP</u>		<u>1/24/97</u>	<u>O.K</u>
HAPPING/TOXICS				
PSD/NGR/KAJ				
INCIN/PSD/GNS	<u>SP</u>		<u>1/24/97</u>	<u>✓</u>
TOURO/NGUYEN	<u>SP</u>		<u>1/24/97</u>	<u>✓</u>
LANTZ	<u>SP</u>	<u>1/24/97</u>	<u>1/31/97</u>	<u>Approved</u>
DEVILLIER	<u>SP</u>	<u>1/31/97</u>	<u>1/31/97</u>	
HANNAH	<u>SP</u>	<u>2/3/97</u>	<u>2/3/97</u>	<u>2-12-97</u>
VON BODUNGEN	<u>SP</u>		<u>2/7</u>	<u>At 3:45 Fin 3:55</u>

PERMIT No.: 2160-00081-00

PLEASE, ANSWER ALL OF THE FOLLOWING: (NA is not acceptable.)

1. Fee Paid Yes (Yes, No, HOLD)
 2* Groundwater Approval No (See Policy Memo 18)

No ground excavations needed3* Toxic Section Approved NoNo toxics indicated4. IT Questions Addressed (Policy Memo 32, Permit Manual Sect. 4.6) Yes

5* Compliance History: (Major new sources & maj. mod. -
 100 TPY Regulated, 10/25 Toxics; 50 TPY VOC Baton Rouge
 - See Policy Memo 9.)

Air _____ Hazardous Waste _____ Water _____
 Solid Waste _____

Minor source

6* Completeness Review (See LAC 33:I.1503; Policy Memo 41.)

Minor source

7* Public Notice of Completeness (See Policy Memo 41, LAC 33:I.1505.A.4.) (INCLUDE DATE PUBLISHED BY COMPANY)

Minor source

DATE:

8* Public Notice (Incl. Newspapers) See Policy Memo 48 & 36.

Minor source

DATES:

9* VOC Reduction Plan (See LAC 33:III.2113.4.)

Minor source10. Glycol Unit 2116 No11. Compressor Testing No12. Tanks: K₁, K₂, K Exempt13. Other NSPS Subparts which apply None14. PSD Review or Netting? Minor source15. Nonattainment Review Attainment area

16. Testing to Eng. (Jim Courville) (See Policy Memo 28)

No testing required

17. Draft Permit to EPA (Date Sent) PSD or Title V

Minor source

18. Record of Decision Required? (PSD only)

Minor source

*If not done, state reason in space provided.

2160 - 00081-00

AIR QUALITY DIVISION
APPLICATION

REVIEW NO. 18247 CATEGORY: PERMITS STATUS: UNDER REVIEW REVIEWER: CARL OSTERHALER NO. COPY 0

COMPANY: Seagull Mid-South Inc. PROJECT: ISU #1-26 PF

PROJECT DESCRIPTION: PERMIT FOR AN EXISTING FACILITY PERMIT NO.: 2160-00081-00 PERMIT DATE: 2/17/97

SITE: _____ NEAREST CITY: Calhoun

PARISH: Ouachita REGIONAL OFFICE: NE

NAME: KENT WEISSLING TITLE: _____ COMPANY CONTACT _____

ADDRESS: 1001 Fannin, Suite 1700 CITY: Houston PHONE: (713)-951-4847

ZIP TX 77002-6794

RECEIVED: 10/25/1996 PUBLIC NOTICE: _____ MILESTONE DATES _____

ASSIGNED: 11/18/1996 TO ADMINISTRATOR: 1/31/97 COMPLIANCE HISTORY REQUEST _____

DRAFT COPY: 1/19/97 TO UNDER SECRETARY: 2/3/97 _____

PERMIT ISSUE: 2/1/97 _____

REGIONAL OFFICE COMMENTS: _____

Initials: 1/1

Fee: 1710 SIC: 1311 Description: Off. & Gas Production TECHNICAL SERVICES Type: P Value: \$315.00

CHECK NO. 1202328 Amount: \$5,670.00 CHECK DATE: 10/18/1996 Invoice No.: _____

COMMENTS: 11-18-96

COMMENTS

Hazardous Waste : _____
Water Resources : _____
Solid Waste : _____
Air Quality : _____
Groundwater: _____
Regional Office: _____
Tech Services: _____
Groundwater Approval: _____
Approved By: _____
Date: _____

COPY TO: _____

Department of Environmental Quality
Air Quality Division
P.O. Box 82135
Baton Rouge, LA 70884-2135
(504) 765-0219

LOUISIANA

Application for Approval of Emissions of Air Pollutants



#2160-00081-00
2-18247

1 Please Type or Print	Company Name	Seagull Mid-South, Inc.	
	Parent Company (if Company Name given above is a division)	Seagull Energy Corporation	
	Plant name (if any)	LSU #1-26 Production Facility	
	Nearest town	Parish where located	Calhoun

2 PROPOSED ACTION Give a brief description of proposed action. Attach flow diagrams, illustration required to convey an understanding.

Seagull Mid-South, Inc. requests a small source permit for the LSU #1-26 Production Facility. The facility handles condensate and natural gas from the LSU #1-26 well. No excavation is associated with this project so groundwater concerns are minimal.

3 OWNERSHIP AND USE OF ADJOINING PROPERTY INCLUDING PHYSICAL LOCATION. ☒ Map or description attached.

DISTANCE (km) TO: Texas 159 Arkansas 55 Mississippi 114 Alabama 365

This facility is located in rural Ouachita Parish approximately 1.2 miles east of Calhoun, LA. The adjoining land is undeveloped at this time.

4 TYPE OF APPLICATION

- | | |
|---|--|
| <input type="checkbox"/> a. Entirely new facility | <input type="checkbox"/> b. Modification or expansion of existing facility |
| <input type="checkbox"/> c. Reconciliation | <input checked="" type="checkbox"/> d. Previously grandfathered or exempted or unpermitted |
| <input type="checkbox"/> e. Part 70 Permit | <input type="checkbox"/> f. General Permit _____ (type) |

PROJECT FEE CALCULATION: Enter fee number, permit type, production capacity/thruput, and fee amount pursuant to LAC 33:III.Chapter 2.

FEE NO.
1710

TYPE
Small Source
Permit

CAPACITY
391 MGED

AMOUNT
\$315.00

5 KEY DATES

Estimated date construction will commence: ASAP Estimated date operation will commence: ASAP

Note: A completed Emission Inventory Questionnaire (EIQ) that reflects projected emissions from your facility as a whole after the project described in this application becomes operational must be submitted with this application. If you are submitting an application that is for modification or expansion of an existing facility, the Department of Environmental Quality must also have an EIQ for existing emissions. If you have already submitted an EIQ that is on file with the Department, it may fulfill this requirement. Consult instructions for further details.

List each emission from all sources. Group by pollutant PM₁₀, SO₂, NO_x, CO, VOC Air Toxics, non-VOC Air Toxics, SARA VOC, SARA non-VOC, Other non-toxic VOC, Total VOC, and nonreactive hydrocarbons (including refrigerants). Show total tons/year for each pollutant. Consult instructions.

[illegible]

List each emission level from facility permits (for unit specific permits, the history should be for the unit of concern only). Group by pollutant and show totals. Include as the last entry for each pollutant the total emissions following the proposed change, entering the project name for "Permit number" and date of submittal for "Date permit issued. Consult instructions.

[illegible]

8 EMISSION POINTS

List each emission point. Use unique ID numbers. Consult instructions.

[illegible]

COMPLIANCE HISTORY/STATUS/CERTIFICATION - see instructions

11 PERSONNEL

a. Responsible Official (See 40 CFR 70.2)

Name Douglas G. Krenak		
Title Production Manager		
Company Seagull Mid-South, Inc.		
Suite, mail drop, or division Suite 1700		
Street or P.O. Box 1001 Fannin		
City Houston	State TX	Zip 77002
Business phone (713) 951-4700		

b. Professional Engineer

Name Jack Owen		
Title Environmental Manager		
Company Seagull Energy Corporation		
Suite, mail drop, or division Suite 1700		
Street or P.O. Box 1001 Fannin		
City Houston	State TX	Zip 77002
Business phone (713) 951-4852		

Signature of responsible official(s) <i>Douglas G. Krenak</i>	
Date 10/22/96	
Date	

Signature of Professional Engineer <i>Jack B. Owen</i>	
Date 10/21/96	
Registration No. 26083	State of Registration LA

CERTIFICATION: I certify, under provisions in Louisiana and United States law which provide criminal penalties for false statements, that based on information and belief formed after reasonable inquiry, the statements and information contained in this Application for Approval of Emissions of Air Pollutants, including all attachments thereto, are true, accurate, and complete.

CERTIFICATION: I certify that the engineering calculations, drawings, and design are true and accurate to the best of my knowledge.

Department of Environmental Quality
Air Quality Division
P.O. Box 82135
Baton Rouge, LA 70884-2135
(504) 765-0218

LOUISIANA # 2160-00081-00
**Emission Inventory Questionnaire
(EIQ) for Air Pollutants**



Please Type or Print	Company Name Seagull Mid-South, Inc.
	Parent Company (if Company Name given above is a division) Seagull Energy Corporation
	Plant name (if any) LSU #1-26 Production Facility
	Nearest town Calhoun
	Parish where located Ouachita



2 TYPE OF EIR ☐ a. ONLY presently existing emissions ☒ b.

BOTH proposed additional emissions associated with an application for a permit, authorization to construct, variance, or exemption AND presently existing emission expected to be still existing after facility or modification described in application becomes operational.

3 CONFIDENTIALITY ☐ If you are requesting confidentiality for all information, except air pollutant emission rates, check box. (You must direct a separate confidentiality request to the Secretary of the Department.)

4 ORGANIZATIONAL ACTIVITIES

Days of week normally NOT operating: ☐ Mon ☐ Tue ☐ Wed ☐ Thurs ☐ Fri ☐ Sat ☐ Sun

Days per year facility typically operates: 365

Peak production season (list months): _____

Daily operating schedule: ☒ 24-hours OR specify number of hours _____

Approximate number of employees at this location: 0

Details of facilities that, as a whole, operate intermittently: _____

Ownership:

☒ corporation, partnership, or sole proprietorship

☐ regulated utility

☐ municipal government

☐ state government ☐ federal government

☐ other, specify _____

Industrial category - Indicate Standard Industrial Classification (SIC) Code(s) that apply to facility:

1311

Description of operation with emphasis on air pollution sources. Use attachments if more space is needed.

After removing condensate from the gas stream, the natural gas
is compressed, cooled, metered and sent to the sales pipeline
at an annual rate of 142.7 MMSCF. Condensate is stored in tanks,
then transported by truck at an annual rate of 1460 barrels.

Emission sources include a 100 HP compressor engine, one line heater,
one storage tank, loading losses and fugitives.

April 1995

5 FUEL USE BY FACILITY AS A WHOLE

Type of fuel	Annual consumption	Sulfur percent (by weight)	Ash percent (by weight)	Heating value
Natural gas	12.7 MM ft ³	0	0	1128 BTU/ft ³
Process gas	MM ft ³			BTU/ft ³
Fuel oil (No.)	gallons			BTU/gal
Fuel oil (No.)	gallons			BTU/gal
Coal (type:)	tons			BTU/ton
Bark/wood chips/sawdust	tons			BTU/
Bogasse	tons			BTU/
				BTU/
				BTU/
				BTU/

6 MATERIALS USED, PRODUCED, STORED, OR TRANSPORTED BY FACILITY AS A WHOLE[illegible]

Rates given should correspond in most cases to the sum of the individual average rates of the point sources listed on the Single Point Source/Area Source forms.

* The relatively high VOC lb/hr rate is due to the loading loss emission rate; however the actual hours per year of loading losses is low (see Single Point EIQ), which is reflected in the VOC tons/yr.
--

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SINGLE POINT/AREA/VOLUME SOURCE Emission Inventory Questionnaire (EIQ) for Air Pollutants



Date of substantial

10/21/96

Location of stack or vent (see instructions on how to determine location of area source)

<input checked="" type="checkbox"/> 15	Horizontal coordinate	5.62042	mE
<input type="checkbox"/> 16	Vertical coordinate	3.592617	mN

For tanks, hot volume (gals), date of construction

**Normal
Operating Rate**

Concentration in gas existing at stack

1

LOUISIANA

**SINGLE POINT/AREA/VOLUME SOURCE
Emission Inventory Questionnaire (EIQ)
for Air Pollutants**



Date of submission

LSU #1-26 Production Facility

Descriptive name of the equipment served by the stack or vent

Location of stack or vent (see instructions on how to determine location of area sources)

0.5 MBTU/hr Line Heater

UTM zone no.

<input checked="" type="checkbox"/> 15	Horizontal coordinate	5.62049	mE
<input type="checkbox"/> 16	Vertical coordinate	3.597617	mN

Stack gas exit velocity
(ft/sec)
14.6

For tanks, hot volume (gals), date of construction

Type of fuel used and heat input (see instructions)	
Type of fuel	Heat input (MM BTU/hr)

Operating Characteristics

Dec-Feb	Mar-May	Jun-Aug	Sep-Nov
25	25	25	25

**Normal operating times
of this point**

391. MCFD

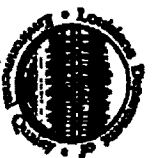
Air Pollutant Specific Information

[illegible]

LOUISIANA

SINGLE POINT/AREA/VOLUME SOURCE Emission Inventory Questionnaire (EQ)

for Air Pollutants



Data of participants

if by this stock or warrant

Location of stack or vent (see instructions on how to determine location of area sources)

UTM zone no. ☒ 15 Horizontal coordinate 5 6 2 0 4 9 mE

For tanks, list volumes
(gals), date of construction
8.820

	Normal Operating Rate
4 BPD	

Air Pollutant Specific Information

[illegible]

* The storage tank has no stack; only a hatch with a negative/positive pressure breather

April 1895

LOUISIANA
SINGLE POINT/AREA/VOLUME SOURCE
Emission Inventory Questionnaire (EIQ)
for Air Pollutants



Plant location and name if any:

Date of submission: 11/1/2011

LSU #1-26 Production Facility

 Descriptive name of the equipment served by this stack or vent |

Location of stack or vent (see instructions on how to determine location of area sources)

Loading Losses

UTM zone no. ☒ 15 Horizontal coordinate 562049 mE

For name, and volume
(page), date of construction

Type of fuel used, and heat input (see instructions)	
Type of fuel	Heat input (MM BTU/hr)

Operating Characteristics

Normal opening time
of this point

Normal Operating Rate	Operating Rate
100%	100%
90%	90%
80%	80%
70%	70%
60%	60%
50%	50%
40%	40%
30%	30%
20%	20%
10%	10%
0%	0%

Air Pollutant Specific Information

[illegible]

LOUISIANA

SINGLE POINT/AREA/VOLUME SOURCE Emission Inventory Questionnaire (EIQ) for Air Pollutants



Plant location and name (if any)

ISU #1-26' Production Facility

Date of submittal
10/21/96

Descriptive name of the equipment served by this stack or vent

Location of stack or vent face instructions on how to determine location of area sources,

Fugitive Emissions

UTM zone no.

<input checked="" type="checkbox"/> 15	Horizontal coordinate	5.62049	mE
<input type="checkbox"/> 16	Vertical coordinate	35.97617	mN

Weight of Steak
above grade (lb)

N/A

Diameter (ft) or stack discharge area (ft ²)	N/A	D ft	D^2 ft ²
---	-------	--------	-----------------------

Stack gas exit
temperature (°F)
N/A

Black gas flow at process conditions, not at standard (10°/min)

N/A

Black gas exit velocity
(ft/sec)

N/A

	N/A
--	-----

Type of fuel used and heat input (see Instructions)	
Type of fuel	Heat input (MM BTU/hr)

Percent of annual throughput of pollutants through the emission point

Normal operating time of this point
--

**Normal
Operating Rate**

Air Pollutant Specific Information

[illegible]

8 PERSONNEL

Manager of facility or location at plant site

Name Douglas G. Krenak		
Title Production Manager		
Company Seagull Mid-South, Inc.		
Suite, mail drop, or division Suite 1700		
Street or P.O. Box 1001 Fannin		
City Houston	State TX	Zip 77002
Business phone (713) 951-4700		

b. Person to contact at site about air pollution control

Name Kent Weissling		
Title Environmental Engineer		
Company Seagull Energy Corporation		
Suite, mail drop, or division Suite 1700		
Street or P.O. Box 1001 Fannin		
City Houston	State TX	Zip 77002
Business phone (713) 951-4748		

c. Headquarters or other off-site contact (see instructions)

Name Kent Weissling		
Title Environmental Engineer		
Company Seagull Energy Corporation		
Suite, mail drop, or division Suite 1700		
Street or P.O. Box 1001 Fannin		
City Houston	State TX	Zip 77002
Business phone (713) 951-4748		

d. Person who prepared this report

☐ a ☒ b ☐ c ☐ other (specify below)

Name		
Title		
Company		
Suite, mail drop, or division		
Street or P.O. Box		
City	State	Zip
Business phone		

Signature of responsible official(s). See 40 CFR 70.2 <i>Douglas G. Krenak</i>	
Date 10/22/96	
Date	

CERTIFICATION: I certify, under provisions in Louisiana and United States law which provide criminal penalties for false statements, that based on information and belief formed after reasonable inquiry, the statements and information contained in this Emission Inventory Questionnaire (EQ) of Air Pollutants, including all attachments thereto, are true, accurate, and complete.

applicable regulation. Use attachments as necessary.

For sources subject to federal Title IV (acid rain) requirements, complete and submit the federal forms.

10 Compliance with Federal Requirements

For sources currently in compliance: State briefly the compliance status of the facility. Indicate a commitment to continued compliance with currently applicable requirements and to future compliance on a timely basis with requirements which become applicable during the permit term.

For sources not currently in compliance: Give a description of how compliance will be achieved, including a schedule for compliance. Indicate remedial measures and milestones leading to compliance with any applicable requirements; include a schedule for submitting certified progress reports, to be submitted no less than every 6 months.

For all sources: Provide a schedule for submission of compliance certifications during the permit term. Include a brief description of methods used for determining compliance (monitoring, record keeping, reporting, etc.). Include a statement indicating the source's compliance status with any enhanced monitoring and compliance certification requirements of the Act. A responsible company official (as defined in 40 CFR 70.2) shall certify the truth, accuracy, and completeness of these statements.

11 Personnel

-Responsible official.

Enter the name, address, and phone number of the responsible company official.

-Professional Engineer

A Professional Engineer must certify the application. The engineer's name, firm, address, and phone number should be entered.

-Certification. An authorized company agent should sign and date the form confirming its accuracy and completeness. A professional engineer should sign and date the form confirming accuracy of calculations, drawings, and designs.

A. "IT" QUESTIONS

1. Have the potential and real adverse environmental effects of the proposed facility (activity) been avoided to the maximum extent possible? *Yes*

2. Does a cost benefit analysis of the environmental impact costs balanced against the social and economic benefits of the proposed facility (activity) demonstrate that the latter outweighs the former? *Yes*

3. Are there alternative projects which would offer more protection to the environment than the proposed facility (activity) without unduly curtailing nonenvironmental benefits? *No*

4. Are there alternative sites which would offer more protection to the environment than the proposed facility (activity) site without unduly curtailing nonenvironmental benefits? *No*

5. Are there mitigating measures which would offer more protection to the environment than the facility (activity) as proposed without unduly curtailing nonenvironmental benefits? *No*

B. title VI Stratospheric Ozone

1. Does your facility have any air conditioners or refrigeration equipment that uses CFCs, HCFCs or other ozone-depleting substances? yes X no
2. Does the air conditioner or refrigeration equipment contain a refrigeration charge greater than 50 pounds? yes no *N/A*
3. Do your facility personnel maintain, service, repair, or dispose of any motor vehicle air conditioners (MVACs) or appliances ("appliance" and "MVAC" as defined at 40 CFR 82.152)? yes X no
4. Cite and describe which title VI requirements are applicable to your facility (i.e. 40 CFR Part 82, Subpart A through G.) in the Regulatory Applicability section of the application.

C. title IV Acid Rain

Complete the Acid Rain Program Phase II forms for affected facilities (available from the EPA bulletin board system).

LSU 1-26

Facility Emission Total - ton/yr

Emission Point	ID Number	NOx	CO	VOC	SO2	PART
Compressor	01	14.5678	2.6048	2.1225	0.0019	
Line Heater	02	0.1941	0.0408	0.0074	0.0012	0.0233
Storage Tank	03			1.3741		
Loading Losses	04			0.07		
Fugitives	05			0.2083		
Total		14.7619	2.6456	3.7823	0.0031	0.0233

LSU 1-26

Facility Emission Total - lb/hr

Emission Point	ID Number	NOx	CO	VOC	SO2	PART
Compressor	01	3.326	0.5947	0.4846	0.0004	
Line Heater	02	0.0443	0.0093	0.0017	0.0003	0.0053
Storage Tank	03			0.3137		
Loading Losses	04			5.59		
Fugitives	05			0.0476		
Total		3.3703	0.604	6.4376	0.0007	0.0053

Barham Estate 2-20

Compressor Emission Calculations

Emission Component	Rating (HP)	Maximum Operating Hours	Emission Factors (1)				Emission Rates							
			NOx gm/hr	CO gm/hr	VOC gm/hr	SO2 gm/hr	NOx		CO		VOC		SO2	
Compressor w/ Cat. 3306NA	100	8760	15.1	2.7	2.20	0.002	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
TOTAL EMISSIONS							3.3260	14.5678	0.5947	2.6048	0.4846	2.1225	0.0004	0.0019

Sample Calculations

Short Term NOx Emissions

Annual NOx Emissions

$$15.1 \text{ gm/hr} \times (100 \text{ hp}) / 454 \text{ gm/lb} = 3.3260 \text{ lb/hr}$$

$$3.3260 \text{ lb/hr} \times (8760 \text{ hr/yr}) / 2000 \text{ lb/ton} = 14.5678 \text{ ton/yr}$$

⁽¹⁾ NOx, CO and VOC emission factors are from Manufacturer's specifications; SO₂ factor is from AP-42.

Emission Calculation Sheet

Flashing Losses Using Vasquez-Beggs Equation

Operator: SEAGULL MID-SOUTH, INC.
 Facility Name: LSU 1-26
 Parish: Ouachita

Vasquez-Beggs Equation		Value	Equation	Reference
Q =	Annual Production, bbl/yr	1460		
APIG =	API Gravity (Degrees)	55	From liquid analysis	
C1 =	Vasquez-Beggs Constant	0.0178	If API Gravity > 30 then C1=0.0178, otherwise =0.0362	Table 22.6, pg. 22.8 PE Handbook
C2 =	Vasquez-Beggs Constant	1.187	If API Gravity > 30 then C2=1.187, otherwise =1.0937	Table 22.6, pg. 22.8 PE Handbook
C3 =	Vasquez-Beggs Constant	23.931	If API Gravity > 30 then C3=23.931, otherwise =25.724	Table 22.6, pg. 22.8 PE Handbook
AD =	Air density @14.7 psia and 60 F (lb/cu.ft.)	0.06867	Default = 0.076318	Fig. 23.2, GFSA Data Book
T =	Fluid Temperature in vessel	90	Default = 100 F	
VP =	Upstream vessel pressure (psig)	60	Default = 30 psig	
UP =	Upstream pressure (psia)	74.7	UP = VP + 14.7	
SG =	Specific gravity of gas in separator (Air = 1)	0.9	From gas analysis	
CSG =	Corrected specific gravity of gas	0.8509	$CSG = SG * (1.0 + 5.912E-05 * APIG * T * \log(UP/14.7))$	Eq. 11, pg. 22-7 PE Handbook
GD =	Gas Density (lb/cu.ft.)	0.0584	GD = CSG * AD	
GOR =	Gas to oil ratio (scf/bbl)	27.7501	$GOR = C1 * CSG * UP * C2 * \exp((C3 * APIG) / (T + 460))$	Vasquez-Beggs Correlation Equation
E =	Control efficiency (% Reduction)	0	Default: 0	
Lf =	Correlated Flashing Loss (lb/yr)	2367.48	$Lf = GOR * Q * GD * (100 - E) / 100$	
VOC%	VOC Wt. %	20.06	From weight percent calculation sheet	
	Flash VOC Emission (lb/yr)	474.92	Flash VOC = Lf * VOC%/100	
	Flash VOC Emission (ton/yr)	0.2375	Flash VOC (lb/yr) / 2000 lb/ton	
H2S%	H2S Wt. %	0.0000	From weight percent calculation sheet	
	Flash H2S emission rate (lb/yr)	0.00		

Gas to oil ratio (GOR) is calculated using Vasquez-Beggs Correlation; equation (17), pg. 22-9 PE Handbook

**TANKS PROGRAM 2.0
EMISSIONS REPORT - SUMMARY FORMAT
TANK IDENTIFICATION AND PHYSICAL CHARACTERISTICS**

**09/10/96
PAGE 1**

Identification
 Identification No.: LSU 1-26
 City: Calhoun
 State: LA
 Company: Seagull Mid-South
 Type of Tank: Vertical Fixed Roof

Tank Dimensions
 Shell Height (ft): 15
 Diameter (ft): 10
 Liquid Height (ft): 10
 Avg. Liquid Height (ft): 8
 Volume (gallons): 5876
 Turnovers: 10
 Net Throughput (gal/yr): 61110

Paint Characteristics
 Shell Color/Shade: White/White
 Shell Condition: Good
 Roof Color/Shade: White/White
 Roof Condition: Good

Roof Characteristics
 Type: Cone
 Height (ft): 15.10
 Radius (ft) (Dome Roof): 0.00
 Slope (ft/ft) (Cone Roof): 3.0200

Breather Vent Settings
 Vacuum Setting (psig): -0.01
 Pressure Setting (psig): 0.01

Meteorological Data Used in Emission Calculations: Shreveport, Louisiana

TANKS PROGRAM 2.0
EMISSIONS REPORT - SUMMARY FORMAT
LIQUID CONTENTS OF STORAGE TANK

09/10/96
PAGE 2

Mixture/Component	Month	Daily Liquid Surf.		Bulk		Vapor		Pressures (psia)		Vapor		Liquid		Vapor		Mol	Basis for Vapor Pressure Calculations
		Avg.	Min.	Max.	Temp. (deg F)	Avg.	Min.	Max.	Max.	Mol.	Weight	Mass	Fract.	Mass	Fract.		
E. Texas Condensate	All	67.33	61.75	72.91	65.42	7.1833	6.5423	7.8716	91.510							91.51	Option 4: RVP=8.90

TANKS PROGRAM 2.0
 EMISSIONS REPORT - SUMMARY FORMAT
 INDIVIDUAL TANK EMISSION TOTALS

09/10/96
 PAGE 3

Annual Emissions Report

Liquid Contents	Losses (lbs.):		Total
	Standing	Withdrawal	
E. Texas Condensate	1555.94	717.33	2273.26
Total:	1555.94	717.33	2273.26

External Combustion Sources

Emission Component	Rating (2)	Operating Hours	Emission Factors (1)						Emission Rates					
			NOx	CO	VOC	SO2	PM-10	NOx	CO	VOC	SO2	PM-10	NOx	CO
Line Heater	MA8T/Uhr	1	100.0	21.0	3.80	0.600	12.000	0.0443	0.1841	0.0083	0.0003	0.0012	0.0053	0.0233
TOTAL EMISSIONS			0.0443	0.1841	0.0083	0.0003	0.0012	0.0053	0.0233					

Sample Calculations

Annual NOx Emissions

$$0.5 \text{ MA8T/Uhr (sect 1128 Bu)} (100.0 \text{ lb/MA8T/Uhr}) = 0.0443 \text{ lb/yr}$$

$$0.0443 \text{ lb/yr (8760 hr/yr)} / 2000 \text{ lb/ton} = 0.01841 \text{ ton/yr}$$

(1) Emission factors are from EPA AP-42, Table 1.4-1 (PM), 1.4-2 (NOx, SO2, CO) and 1.4-3 (VOC)

(2) Fuel Heating Value is 1128 Btu/lb.

LSU #1-26
Maximum Potential to Emit - Loading Losses

Source	No. of Tanks	Thoroughput, bbl/yr	Loading, hrs/yr	VOC Emissions, lb/hr	VOC Emissions, tons/yr
Storage Tank	1	1460	25	5.59	0.070
Total	1	1460	25	5.59	0.070

Example Calculation

$LL = 12.46 \text{ SMP/T} = \text{lbs/1000 gals loaded}$

Where:

LL = Loading loss

S = Saturation factor (0.6 for truck loading)

M = Molecular weight of vapors = 50

P = Vapor pressure of oil = 3.87 psia

T = Temperature of oil in Rankine = 540 °

$LL = 12.46 (0.6)(50)(3.87)/540 = 2.68 \text{ lb/1000 gals}$

Throughput = 1460 bbl/yr = 61.32 thousand gals/yr

$LL/\text{yr} = 2.68 (61.32) = 164.34 \text{ lb/yr} = 0.082 \text{ ton/yr Total Organic Compounds}$

VOC percentage in Crude Oil Vapors = 85%

$0.082 \text{ ton/yr} (.85) = 0.07 \text{ ton/yr VOC}$

$0.07 \text{ ton/yr} \times 2000 \text{ lb/ton} / 25 \text{ hr/yr} = 5.59 \text{ lb/hr}$

Equations and factors are from AP-42 Section 4.4, "Transportation and Marketing of Petroleum Liquids".

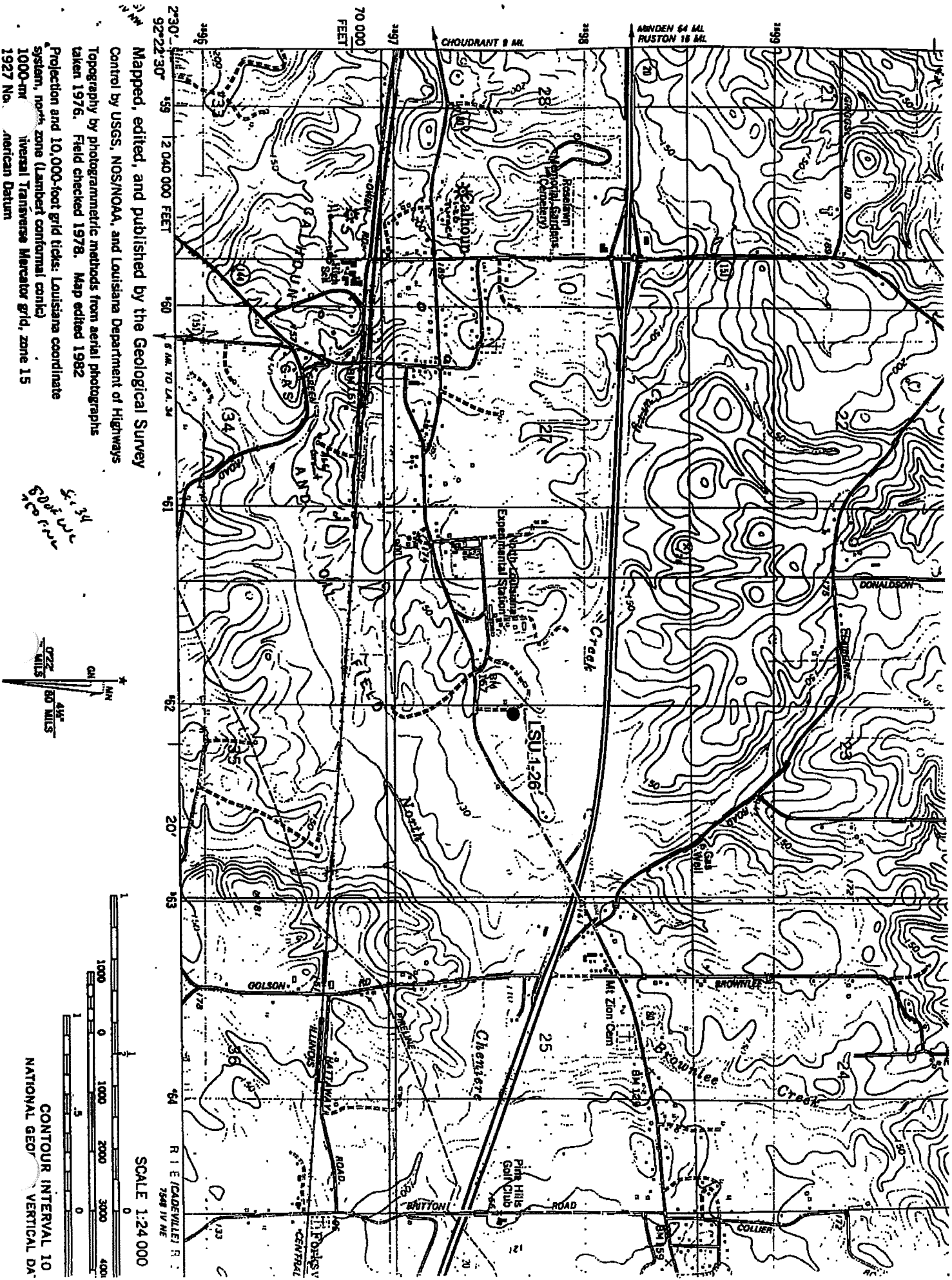
LSU 1-26 Fugitive Emissions

Emission Component	Source Count	Emission Factor (1) (lb/hr-source)	VOC Wt %	Final Emission Factor (lb/hr-source)	Emission lb/hr	Emission Ton/yr
Valves	10	0.00992	0.2006	0.00199	0.0199	0.0872
Flanges	25	0.00086	0.2006	0.00017	0.0043	0.0189
Compressor Seals	2	0.0194	0.2006	0.00389	0.0078	0.0341
Others	4	0.0194	0.2006	0.00389	0.0156	0.0682
Total Fugitive Emissions					0.0476	0.2083

Sample Calculations Annual VOC Emissions - Flanges

25 valves	0.00086 lb hr-valve	0.2006 Wt %	8760 hr year	ton 2000 lb	= 0.0189 ton/year
-----------	------------------------	-------------	-----------------	----------------	-------------------

(1) Emission factors from new Oil and Gas Production Operations factors approved by the EPA in August 1995.



Map of the area around Calhoun, Louisiana

Control by USGS, NOS/NOAA, and Louisiana Department of Highways

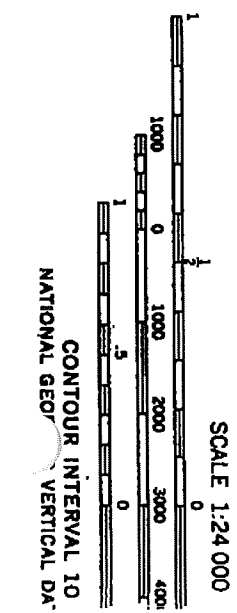
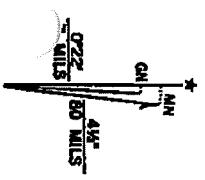
Topography by photogrammetric methods from aerial photographs taken 1976. Field checked 1978. Map edited 1982

Projection and 10,000-foot grid ticks: Louisiana coordinate system, north zone (Lambert conformal cone)

1000-m interval Transverse Mercator grid, zone 15

1927 No. American Datum

600 ft



PARISH: OUAÏCHITA

FACILITY	PERMIT NO.	CITY & PHYSICAL LOCATION	UTM ZONE	UTM Km E	UTM Km N
O. S. Chapman No. 1-32	2160-00079-00	Calhoun- Approx. 1.7 miles sw of Calhoun.	15	557.38	3595.93
F. E. Hammonds No. 1-33	Exemption	Calhoun- Approx. 0.6 miles sw of Calhoun.	15	-	-
F. E. Hammonds No. 5-33	Exemption	Calhoun- Approx. 0.4 miles sw of Calhoun.	15	-	-
LSU No. 1-26	2160-000815 2160-000815	Calhoun- Approx. 1.2 miles east of Calhoun.	15	562.04	3597.62
Turner No. 1-28	2160-00078-00	Calhoun- Approx. 0.3 miles west of Calhoun.	15	559.42	3597.36
Mobil J.M.Russel No. 1	2160-00080-00	Calhoun- Approx. 1.0 mile nw of Calhoun.	15	558.45	3597.97
Cadeville Compressor Stn.	2160-00071-01	Calhoun- < 1 mile from Calhoun.	15	544.84	3596.39

APPENDIX G – QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

JORDAN HARPER

Environmental Specialist

Project Assignment: Environmental Specialist

Mr. Harper has recently joined PPM's environmental staff and is involved in property transfer environmental assessments, statistical analyses, groundwater monitoring, and remediation studies. Mr. Harper's remediation experience includes review of groundwater monitoring reports, preparing Phase 1 Environmental Site Assessments (ESA), and groundwater site investigations. Mr. Harper is familiar with Louisiana Department of Environmental Quality (LDEQ) regulations and Environmental Protection Agency (EPA) protocols.

Relevant Experience:

- Conducted multiple groundwater monitoring projects. Projects included well gauging, bailing, as well as sampling wells for petroleum hydrocarbon constituents, and conducting water table elevation surveys.
- Environmental Specialist on site investigation projects. Projects included collection of soil and groundwater samples, conducting water table elevation surveys, sampling wells for hydrocarbon constituents, data compilation and interpretation, and preparing reports.
- Researched and obtained DEQ files for project information.
- Conducted Phase I Environmental Site Assessment to determine environmental concerns. Projects included site visits, field reconnaissance, file reviews, report preparation and report assembly.
- Has laboratory experience with DNA extraction from both plant and animal tissue and the use of polymerase chain reaction. He is familiar with the use of light microscopes, and dissection scopes, microphotography, vertebrate physiology, histology, and immunology as well as laboratory health and safety practices.
- Familiar with state and federal regulations regarding threatened and endangered species.

Education:

Bachelor of Science in Biology
Grove City College 2012

Training:

40-Hour Hazwoper Training, September 2014
In-house Training on Phase I ESA, 2014
Lock Out/ Tag Out 2014

GREGORY P. STOVER, P.G.
SENIOR TECHNICAL CONSULTANT

Mr. Stover has 35 years of experience as a geologist, and serves as a Senior Technical Consultant with PPM. Mr. Stover declares that to the best of his professional knowledge and belief, he meets the definition of *Environmental Professional* as defined in §3.12.10 of 40 CFR 312, to wit: Mr. Stover earned a Bachelor of Science in Geology from Auburn University in 1979; has held a current Professional Geologist's license from a state since 1989 (Florida, Arkansas, Tennessee, Alabama, and Mississippi); and has 28 years of full-time relevant experience.

Since January 1988, Mr. Stover has performed, managed, supervised, and provided QA/QC reviews for several thousand Phase I and Phase II Environmental Site Assessments (ESA) conducted at a variety of facilities including gasoline stations, auto shops, auto dealerships, soda bottling plants, printers, dry cleaners, indoor and outdoor shooting ranges, paper mills, cotton gins, bulk terminals, oil and gas production fields, wood treatment facilities, asphalt plants, quarries and mines, light and heavy manufacturing factories, railroad terminals, roundhouses, tracks, and spurs, office/warehouses, high-rise office buildings, hotels, hospitals and medical offices, Research & Development facilities, aerospace facilities, former military airfields, private airports, private and public schools, apartment complexes, city-owned housing projects, strip shopping centers and malls, agricultural land, large and small tract timberlands, and EPA-funded brownfields. Mr. Stover has acted as an *Environmental Professional* in the performance of Phase I and II ESAs in 25 states with emphasis on EPA Regions 4 and 6. Mr. Stover has worked for and/or to satisfy the requirements of users, stakeholders, and regulators including owners, purchasers, banks, lawyers, brokers, other consultants, cities, parishes/counties, councils of government, state and local regulatory agencies, HUD, DOE, DOD, SBA, FEMA and the EPA. Mr. Stover applies his expertise in hydrogeology, organic chemistry, and chemical fate and transport to his extensive list of projects involving the assessment and remediation of petroleum products and hazardous substances including gasoline, diesel, bunker oil, polynuclear aromatic compounds, coal tar, heavy metals, PCBs, herbicides, pesticides, and chlorinated solvents.

Mr. Stover has been responsible for developing standard field forms, report formats, and training to support the company-wide use of the ASTM E 1527 Standard Practice for Phase I ESAs and the All Appropriate Inquiry (AAI) Rule since these standards were first published in 1993 and 2005. Mr. Stover is a member of ASTM Committee E50.

Mr. Stover is also proficient with non-ASTM scope items including asbestos-containing building materials, radon, lead-based paint, mold, wetlands, historical resources, and the National Environmental Policy Act (NEPA) of 1969. Mr. Stover also has extensive remediation experience including the use of technologies such as dual-phase vacuum extraction, air sparging, soil vapor extraction, ozone sparging, enhanced bioremediation, excavation, solidification and stabilization, land farming, natural attenuation, and risk assessment.