# Exhibit 19 - Phase I Environmental Site Assessment (ESA-I)

**ENVIRONMENTAL SITE ASSESSMENT ESA-1**

**FOR THE**

**LASALLE ECONOMIC DEVELOPMENT DISTRICT (LEDD)**
**JENA INDUSTRIAL SITE**

**Prepared for:**
Meyer, Meyer, LaCroix & Hixson, Inc.
Mr. Jacob Dillehay, P.E.
100 Engineer Place
Alexandria, Louisiana 71303

**Prepared by:**

biome Consulting Group
1300 West Government St. Pensacola, Florida 32502
850.435.9367 www.biome.co

Project No. 2003.002
January 2016

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# 1 Summary

A Phase I Environmental Site Assessment was conducted on the property known as the LaSalle Economic Development District (LEDD) Jena Industrial Site which occupies approximately 28.67-acres situated south of Louisiana Highway 8 (Airport Drive) just west of Hanger Road. The site is generally located in Section 16, Township 8 North, Range 3 East, LaSalle Parish, Louisiana. The site's location is also depicted in a vicinity map attached as **Appendix 10.1**. The site itself has been managed for timber and, historically, for oil production. The general vicinity of the site is dominated by silvacultural land use with the exception of the Jena Airport which adjoins to the east and industrial uses adjacent to the airport.

A search of environmental databases for sites within the ASTM search radii generated no findings for the site, no findings for adjacent properties, and one findings for vicinity properties (a fuel storage tank at the airport). No Recognized Environmental Conditions associated with the subject property were identified as a result of review of environmental regulatory records.

A variety of maps and images depicting the subject property (dating to 1941) was readily available and reviewed for this assessment. While all imagery depicts managed timberland, there is an apparent historical use for oil production. At least one oil production well, and associated flow lines, appear to have occupied the subject property. The historic use of the site for oil production represents a use of petroleum products on the property with a high probability of discharge onto the ground's surface. As such, the historic use identified during review of historic imagery did result in the identification of Recognized Environmental Conditions associated with the subject property.

Inspection of the subject property revealed managed timberland with evidence of historic oil production. Observation of presently operating wells on the south adjacent property revealed significant discharges of oil onto the ground's surface resulting in soil contamination. Vicinity wells are connected with small (e.g. 2-4") "flow lines". A cleared area on the property appeared to be the site of an abandoned well and flow lines were observed at that location also. The apparent historic well and flow lines are depicted in **Appendix 10.2**. The use of the site for oil production was found to represent a Recognized Environmental Condition. It is likely that discharges of oil onto the ground and possibly into the groundwater have occurred in the well locations and along the flow line corridors. Additional investigation beyond the scope of this Phase I assessment would be required to determine the actual presence and extent of petroleum contamination.

The conclusion of this assessment is:

Biome Consulting Group has performed a Phase I Environmental Site Assessment in general conformance with the scope and limitations of ASTM Practice E-1527-13 of the LaSalle Economic Development District (LEDD) Jena Industrial Site. Any exceptions to, or deviations

from, this practice are described in Section 2.4 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the property exception the following:

- Presence of at least one historic oil production well on the property;
- Presence of oil distribution pipes connecting on-site wells to off-site collection facilities.

# 2 Introduction

This report is an instrument of service of Biome Consulting Group. The report presents the results of a Phase I Environmental Site Assessment (ESA) of the LEDD Industrial Site located in Section 16, Township 8 North, Range 3 East, LaSalle Parish, Louisiana. This ESA was performed for LaSalle Economic Development District who is the intended *User* of this report.

## 2.1 Purpose

This report provides the results of an assessment of the environmental condition of the subject real estate and is intended to constitute all appropriate inquiry for the purposes of qualifying the *Users* of this report for CERCLA's (Comprehensive Environmental Response, Compensation and Liability Act) Landowner Liability Protections including: the *bona fide* prospective purchaser liability protection; contiguous property owner liability protection; and innocent landowner defense, assuming compliance with other elements of those defenses.

The conduct of this assessment was specifically intended to identify Recognized Environmental Conditions (REC's) in connection with the target property. For the purpose of this report, a Recognized Environmental Condition is defined as follows: the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: due to a release to the environment; under conditions indicative of a release to the environment; or under conditions that pose a material threat of a future release to the environment. *De minimis* conditions are not recognized environmental conditions.

This report is not nor is it intended to be exhaustive. No environmental site assessment can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with a property. This assessment report is intended to reduce, but not eliminate, uncertainty regarding the potential of recognized environmental conditions in connection with the subject property.

## 2.2 Detailed Scope-of-Services

Biome Consulting Group was contracted by Meyer, Meyer, LaCroix & Hixson, Inc. on behalf of LaSalle Economic Development District to Complete a Phase I Environmental Site Assessment for the subject property in accordance with the guidelines set forth in ASTM Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (Designation E-1527-13). Additional services such as assessment of asbestos, lead, and radon or other environmental assessment services not identified as scope

items in E-1527-13 were not included with this scope of services. A copy of the standard can be purchased from ASTM at http://www.astm.org. The site was originally assessed in January 2015. At that time the property configuration included land to the south that contained active oil production wells. That portion of property was eliminated from consideration and additional lands to the west were added. The present assessment is a revision of the 2015 assessment to include the new property to the west.

### 2.3 Significant Assumptions

No significant assumptions were made in connection to the conduct of this assessment.

### 2.4 Limitations and Exceptions

Biome Consulting Group has endeavored to perform this assessment in general conformance with the guidelines established in ASTM E-1527-13 Environmental Site Assessments for Commercial Real Estate. The following constitute perceived deviations from that standard:

1. The objective of research to 1940 was not realized. A 1941 topographic map was the earliest record reviewed for this assessment.
2. At the request of the *User*, this assessment was conducted in less than 20-days, the period identified in the standard associated with reasonable ascertainability.

The findings and opinions conveyed via this ESA report are based on information obtained from a variety of sources enumerated herein, and which Biome Consulting Group believes is reliable. Nonetheless, Biome Consulting Group CANNOT AND DOES NOT GUARANTEE THE AUTHENTICITY OR RELIABILITY OF THE INFORMATION IT HAS RELIED UPON.

### 2.5 Special Terms and Conditions

The terms and conditions governing Biome Consulting Group's conduct of this assessment are detailed in the contract executed by the *User*. No special terms and conditions or deviations from Biome Consulting Group's standard terms and conditions were employed for this scope of services.

### 2.6 User Reliance

The LaSalle Economic Development District is the *User* of this report. The identified *User*s are the only intended beneficiaries of this report and are the only parties to whom Biome Consulting Group has explained the risks involved and which have been involved in the shaping of the scope of services needed to satisfactorily manage those risks from the *User*s' point of view. Accordingly, reliance on this report by any party other than the *User*s would perforce result in reliance on assumptions whose extent and nature distort the meaning and impact of the findings and opinions related herein, in turn resulting in misinterpretation. Biome Consulting Group's findings and opinions relayed in this report may not be relied upon by any party except the *User*s. Biome Consulting Group is available to contract with other parties to develop findings and opinions related specifically to such other parties' unique risk management concerns.

# 3 Site Description

## 3.1 Location and Legal Description

LEDD Industrial Site (**Appendix 10.1**) is approximately 28.67-acres located along the southern right of way of Louisiana Highway 8 (Airport Drive). The subject property, is being excised from a larger parent parcel. The approximate limits of the subject property are presented as "Inspection Boundary" in the appendices.

## 3.2 Site and Vicinity General Characteristics

The site is located in a rural setting generally surrounded by silvicultural land uses. The Jena Airport adjoins the site to the east and is the most prominent vicinity feature. Industrial uses occur on properties adjacent to the airport.

## 3.3 Current Use of the Property

The site is presently used for timber production.

## 3.4 Descriptions of Structures, Roads, and Other Improvements

There are no buildings or improved roads on the site. There appears to be one historic oil well site and associated flow lines. These present as rectangular features approximately 1.5-acres in area that have been cleared, filled, and leveled. Cleared corridors between well pads (both on and off site) represent the route of flow lines. An annotated aerial photograph depicting the observed features is included as **Appendix 10.2** and site photos are included in **Appendix 10.3**.

## 3.5 Current Uses of the Adjoining Properties

<u>NORTH</u>
Louisiana Highway 8 (Airport Drive) and undeveloped land

<u>NORTHEAST</u>
Universal Plant Services

<u>EAST</u>
XTO Energy's oil well number 178873; Hanger Road; Jenna Airport; National Guard Armory; Justiss Oil Company.

<u>SOUTH</u>
Undeveloped land; XTO Energy's oil well number JA14 #4

<u>WEST</u>
Undeveloped land

# 4 User Provided Information

## 4.1 Scope

The "All Appropriate Inquiries" final rule (40 CFR Part 312) requires that certain tasks be performed by a party seeking to qualify for a landowner liability protection to CERCLA liability. In its engagement paperwork, Biome Consulting Group provides a colloquial description of the user responsibilities as well as a user questionnaire. These, including user responses, are attached to this report in **Appendix 10.6**.

This section provides comments on the materials provided to the environmental professional for review.

## 4.2 Title Records

If available, title and judicial records may contain information relating to environmental liens and / or activity and use limitations. Such information may point toward recognized environmental conditions in connection with the target property. No title records were provided to the environmental professional for review.

## 4.3 Specialized Knowledge

The User must take into account their specialized knowledge to identify conditions indicative of releases or threated releases. If the User has any specialized knowledge stemming from their education, profession, or experience that is material to recognized environmental conditions in connection with the target property, the user should communicate such information to the environmental professional prior to the conduct of the site reconnaissance. The *User* did not indicate specialized knowledge in connection with the target property.

## 4.4 Commonly Known or Reasonably Ascertainable Information

Commonly known or reasonably ascertainable information within the local community about the target property must be taken into account by the User. For example, a property might be commonly identified by a historic use (e.g. "the old corner store") that could be indicative of a past release. Such information should be communicated to the environmental professional prior to the conduct of the site reconnaissance. The *User* did not indicate commonly known information in connection with the target property.

## 4.5 Valuation Reduction for Environmental Issues

In a transaction involving the purchase of a parcel of commercial real estate, the User shall consider the relationship of the purchase price to the fair market value. Significant reduction in price might be indicative of known or undisclosed environmental issues. The User should try to identify an explanation for a lower price which does not reasonably reflect fair market value. The User is not required to disclose the purchase price to the environmental professional; however, the User should inform the environmental professional if there is a perceived discrepancy in price. No information related to valuation was provided by the *User*.

### 4.6 Owner, Property Manager, and Occupant Information

The property is owned by LaSalle Economic Development District.

### 4.7 Reason for Performing Phase I

LaSalle Economic Development District is marketing this property for industrial development and wish to identify and resolve regulatory impediments to development. The *Users* also wish to document all appropriate inquiry for the purposes of applicable CERCLA Landowner Liability Protections. Other specific management decisions and business risk tolerance level were not disclosed to the environmental professional.

### 4.8 Other

No other information relating to the subject property was provided by the *User*.

## 5 Records Review

### 5.1 Standard Environmental Record Sources

Biome Consulting Group contracted Environmental Data Research (EDR) to search federal and state databases for the site and nearby properties. The standard environmental record sources searched by EDR and the approximate minimum search distances are referenced in the report which is included in **Appendix 10.5**.

### 5.2 Additional Environmental Record Sources

In addition to the standard environmental records sources, EDR produced tables of findings on proximal records (those outside the specified radii) and non-address records. These were reviewed during this assessment. Biome Consulting Group also maintains proprietary databases that include information not contained in the EDR report, that were reviewed in connection with this assessment.

### 5.3 Physical Setting Source

**Review of Topographic Maps-** The 1985 U.S. Geologic Survey (USGS) 7.5 minute topographic map for the Jena West quadrangle was reviewed to provide information about the topography of the site. A copy of that map is reproduced in **Appendix 10.4b**. The map depicts sloping topography ranging from ca. 210' in the north to ca. 190' in the south. The headwaters of an unnamed tributary of Muddy Prong originate on the property.

**Site Geology-** Geotechnical reports and information pertaining to on-site geologic conditions was not provided by the *User* for review by Biome Consulting Group during the performance of this Phase I ESA. According to the NRCS's Web Soil Survey the soil on the site is comprised of primarily fine sandy loam soils. A portion of the soil map is included in **Appendix 10.4c.**

**Groundwater Quality and Occurrence-** From the 1985 USGS topographic map, the groundwater in the area of the property appears to flow in the southerly direction towards Muddy Prong. Louisiana Highway 8 north of the property appears to straddle a watershed

boundary. Thus, surface waters north of the site flow away from the subject property. Surface waters in the vicinity of the site occur at elevation of ca. 200-feet suggesting that groundwater on-site occurs between 0 and 20-feet below ground's surface.

### 5.4 Historical Use Information on the Property

**Historic Maps-** Aerial photography of the subject and vicinity is limited and available images are low-quality. Available imagery included: 1941 US War Department 15 minute topographic map of the Jena quadrangle; The 1985 USGS topographic map of the Jena West quadrangle; and aerial photographs from 1952, 1976, 1980, 1998, 2005, 2006, 2007, 2009, 2013, and 2014. Reproductions of these maps are included in **Appendix 10.4e**.

Observations of the subject property from these images are as follows:

- 1941 Topo – Map symbol indicates the presence of a house along the northern property boundary fronting Highway 8
- 1985 Topo – No structures or features indicated
- 1952 Aerial – Possible home site evident
- 1976 Aerial – Forested, no structures evident
- 1980 Aerial – Managed silviculture,
- 1998 Aerial – Most informative image that shows well pad site and flow line corridor
- 2005 Aerial – Substantially similar to the earlier image
- 2006 Aerial – Substantially similar to the earlier image
- 2007 Aerial – Substantially similar to the earlier image
- 2009 Aerial – Vegetation growth beginning to obscure features
- 2013 Aerial – Substantially similar to the earlier image
- 2014 Aerial – Site as observed during the site reconnaissance.

### 5.5 Historical Use Information on the Adjoining Properties

**Historic maps-**

- 1941 Topo – No structures or features indicated
- 1985 Topo – The Jena airport and National Guard Armory are indicated on the east adjoining property
- 1952 Aerial – Dirt road originating on north adjacent property leading north
- 1976 Aerial – The Jena airport and National Guard Armory are evident on the east adjoining property
- 1980 Aerial – Linear features that may be flow lines are apparent on the south adjacent property
- 1998 Aerial – Oil well sites evident on northeast, east, and south adjacent properties; development on the east side of Hanger Road apparent
- 2005 Aerial – well structures are evident on south and east adjacent pad sites Flow line corridors connecting the two are evident
- 2006 Aerial – Substantially similar to the earlier image

- 2007 Aerial – Well structure on east adjacent pad site no longer evident
- 2009 Aerial – Substantially similar to the earlier image
- 2013 Aerial – Substantially similar to the earlier image
- 2014 Aerial – Site as observed during the site reconnaissance.

# 6 Site Reconnaissance

## 6.1 Methodology and Limiting Conditions

The site was inspected on January 13, 2015. Photos of the site included in **Appendix 10.3** were taken on that day. The site was viewed from north, east, and south adjacent properties, the perimeter was walked, all trails traversed and features observed in historic imagery investigated. Thick vegetation restricted the views across the site and, in the case of the historic well pads, obscured the ground's surface. The site was revisited in December 2015. No substantial changes from the earlier inspection were noted. Photos of the eastern portion of the site were taken on that day.

## 6.2 General Site Setting

The site is managed timberland. Mature pine plantation occupies the site.

## 6.3 Exterior Observations

The unimproved property has no buildings. Historic well pad locations presented as historically cleared, filled, and leveled areas with dense herbaceous regrowth. Flow line corridors presented as cleared paths within the pine rows.

## 6.4 Interior Observations

The unimproved property has no buildings.

# 7 Interviews

## 7.1 Interview with Owner

Mr. Murphy McMillan was interviewed as the representative of LaSalle Economic Development District, the property's owner. The following paraphrases the information obtained from Mr. McMillan.

Mr. McMillan, is a long-term resident and former Mayor of Jena. He is intimately familiar with the site and vicinity. Presently, Mr. McMillan is volunteer executive of LaSalle Economic Development District, an organization dedicated to attracting industry to the area. The northeast adjacent property was a recent success for LEDD and the present project is the next in a series of development projects for the organization.

Mr. McMillan stated that he is unaware of any use, storage, or disposal of petroleum products or hazardous substances on the property. When asked about vicinity activities that might have negatively affected the site, he indicated that he is aware of oil wells on adjacent

properties and that the portion of the parent parcel being acquired is designed to specifically exclude known oil wells. When questioned about historic oil production on the subject property, Mr. McMillan indicated that he had always known the site to be timber land and was not aware of historic wells on the site.

In response to Biome's January, 2015 assessment, the southern portion of the site was abandoned because of active oil production. A portion of the east adjacent property was added to the project site. In December, 2015 Mr. McMillan accompanied Biome biologists on an inspection of the site. During the inspection, he reaffirmed the information obtained in the earlier interview. Mr. McMillan indicated that he was unfamiliar with any potential REC's associated with the new acreage appended to the project.

### 7.2 Interview with Site Manager

The undeveloped land had no site manager.

### 7.3 Interview with Occupants

The undeveloped land had no occupants.

### 7.4 Interview with Local Government Officials

The former mayor, the most senior local official, was interviewed as owner.

### 7.5 Interview with Others

No one other than those indicated was interviewed.

## 8 Evaluation

### 8.1 Findings

By definition, findings are known or suspect recognized environmental conditions, controlled recognized environmental conditions, historical recognized environmental conditions, and *de minimis* conditions. In this section we present observations from the vicinity, adjacent properties and the target site that merit discussion and may be classified into one of the above categories:

**Vicinity:**

- Fueling facilities at the airport and National Guard armory

**Adjacent:**

- Oil wells on the northeast, east, and south adjacent properties

**Site:**

- Historic residence
- Historic oil well

- Historic oil flow lines

**8.2 Opinion**

The environmental professional who has conducted the site visit and reviewed the results of the data collection effort offers the following opinions:

Vicinity findings**:**

Underground Fuel Storage Tanks (UST's) are located on the airport property to the east. UST's represent a material threat for discharge of their contents into the ground because they are located in the ground. Buried, their condition cannot be visually inspected and thus, an observer can make no determination that a release has not occurred. Further, tanks in the ground are subject to corrosion and are notorious for leaking. In recent years, the design of tanks has included features that inhibit erosion, prevent leakage, and provide a means of monitoring leakage. These features mitigate the probability of discharge. However, the presence of an older tank is very frequently associated with a discharge and is frequently identified as a Recognized Environmental Condition by environmental professionals. If a UST leaks, soil contamination will certainly result. Whether or not groundwater contamination results and the aerial extent of such contamination depends on large number of factors including:

- Soil type and condition
- Elevation of the tank above the water table
- Topography and hydrogeology
- The volume of contents released
- The chemical and physical properties of the substance released

When evaluating vicinity findings that include UST's the environmental professional's general knowledge of these factors and his professional experience aid in the determination of probability that such findings actually affect a specific property.

For example, volatile contents in course soil with high water table can affect properties great distances away. More labile contents (e.g. gas or diesel) in finer soil with lower water table may have a contamination plume that migrates only a few feet from the source. The subject is an undeveloped property surrounded by undeveloped property in a rural setting. Based on the parameters evaluated, it is my opinion that if UST's were located on properties east of Hanger Road, it is unlikely that discharges from such tanks would have affected the subject property.

Adjacent findings:

Oil wells in the vicinity of the subject property appear to have been networked via 2-4" pipes that collected product and transmitted to a central processing facility. The presence of historic well sites on three sides of the subject property increases the probability that the

transmission network bisected the subject property. Threaded junctions in the flow lines represent a material threat of discharges from the pipes onto the ground at the subject property.

Site findings

The target property presented as a densely vegetated silvicultural site. The oldest historic document reviewed, the 1941 topo map, included a symbol indicating a house along the northern boundary of the site. A very low-quality 1952 aerial photograph includes a feature in the same location that may be a residential structure. The presence of a home site includes the possibility of an oil-burning furnace and associated fuel storage as well as a septic tank. These residential uses can be associated with REC's. However, no other corroborating information causes us to conclude that such exist.

There is clear evidence from both historic documents and site inspection that the site has been historically utilized for oil production. The use of the site for oil production does represent a REC. Our observations of area wells lead us to expect a very high probability of discharges onto the ground at a well site or "pad." The environmental impact of well pad discharges is a function of volume. Obviously, a larger volume of discharge or chronic discharges over long periods of time will affect a larger volume of soil and have the potential to also impact groundwater. This Phase I assessment has revealed a historic presence of oil wells. The pad locations have been reclaimed by vegetation and the soil's surface is obscured. In addition to the actual well sites, product was transmitted from the on-site wells to an off-site facility. Junctions in the pipes comprising these flow-lines represent a material threat of release of product onto the ground. We were unable to obtain information on production volume or management practices at the site. Thus, we cannot draw conclusions on the extent of contamination resulting from those uses. It is possible that minor soil contamination occurred at the well sites and or flow line corridors and that such contamination may have been mitigated. It is equally possible that extensive discharges occurred resulting in persistent groundwater contamination.

Additional investigation including soil and groundwater sampling within the two identified pad locations and along flow line corridors will be necessary to determine actual presence and extent of contamination petroleum contamination at the subject property.

### 8.3 Data Gaps

A lack of or inability of the environmental professional to obtain information despite good faith efforts constitute data gaps. The following are deemed to be data gaps relating to this assessment:

> No information relating to the structure in the 1941 map was uncovered during this assessment.

### 8.4 Conclusion

Biome Consulting Group has performed a Phase I Environmental Site Assessment in general conformance with the scope and limitations of ASTM Practice E-1527-13 of the LaSalle Economic Development District (LEDD) Jena Industrial Site. Any exceptions to, or deviations from, this practice are described in Section 2.4 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the property exception the following:

- Presence of at least one oil production well on the property;
- Presence of oil distribution pipes connecting on-site wells to off-site collection facilities.

### 8.5 Limiting Conditions, Deletions, and Deviations

Conditions limiting our ability to assess the target property are described in **Section 6.1**. No client imposed constraints, other than a desire for expediency, limited this assessment. Specific perceived deviations from the ASTM 1327-13 are listed in **Section 2.4.** In addition, we note a general deviation from the interview requirements of the standard. The abundance of regulatory records and data available on agency websites, in many instances, eliminates the need to interview certain officials. In our extensive experience, interviews with agency officials yielded no pertinent information other than direction to online resources. Therefore, agency interviews are generally limited to specific inquiry about findings generated from review of on-line resources. In the absence of such findings, interviews with regulatory officials are not conducted.

The nomenclature of this report follows the recommended table of contents and report format in X4 of E1527-13 with the exception of the addition of "**Section 3**" which inserts a description of the property in a location that seems logical to us. Accordingly, our report has 10 sections versus the 9 recommended in the standard.

### 8.6 References

Materials utilized in the conduct of this assessment were obtained from the following sources:

- Environmental Data Research –ASTM Environmental Database Search Product
- The United States Department of Agriculture Web Soil Survey-Soil Map
- The United States Geological Service-Topo Maps, Aerial Photographs

### 8.7 Signature of Environmental Professional

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

I have conducted and / or reviewed this assessment and support the data and conclusions contained therein.

January 15, 2016

**Glen A. Miley, Founding Partner** **Date**
**Biome Consulting Group**

**8.8 Qualifications of Environmental Professional**

This Environmental Site Assessment Report has been prepared and or reviewed by Glen A. Miley. Mr. Miley's qualifications meet or exceed the definition of Environmental Professional in X2 of ASTM E 1527-13 pursuant to 40 CFR §312.10.

Glen A. Miley is a founding partner of the firm Biome Consulting Group, a regionally well-known environmental consulting company. As a founding executive of the firm, his position requires the highest level of responsibility and client accountability in the performance of a numerous ecological and environmental regulatory-compliance consulting services. The scope of these services includes a variety of applied ecological studies, environmental site assessments, land use planning consulting, and environmental permitting. Prior to founding Biome Consulting Group, Mr. Miley served as Founder and Principal Consultant at Edmisten & Associates. In that position, Mr. Miley performed a substantial number of environmental studies including Environmental Site Assessments over a period of seventeen years. He has more than twenty years' experience in the conduct of Phase I Environmental Site Assessments.

Mr. Miley has been conferred the Bachelor of Science degree by the University of Alabama and the Master of Science degree by the University of South Alabama. Additionally, he has received classroom training from the ASTM on the standards for "Environmental Site Assessments for Commercial Real Estate" and field training in the conduct of Environmental Site Assessments from several Professional Geologists and Professional Engineers. Mr. Miley's *Curriculum Vitae*, which details all aspects of his training and experience is included in **Appendix 10.8** to this report.

## 9 Additional Non-Scope Services

The conduct of this assessment was guided by ASTM standard E1527-13 and was intended to be limited to the scope of that practice. This report is limited to the scope identified in **Section 2.2**. No non-scope services (including recommendations) were addressed in this report.

## 10 Appendices

The data appended to and referenced in this report were essential to the opinions expressed and the conclusion reached:

10.1 Vicinity Map

10.2 Site Plan

10.3 Site Photographs

10.4 Historical Research Documentation
- 10.4a Tax Card
- 10.4b Topographic Map(s)
- 10.4c Soil Map
- 10.4d Title Records (if provided)
- 10.4e Historic Aerial Photographs and Other Maps

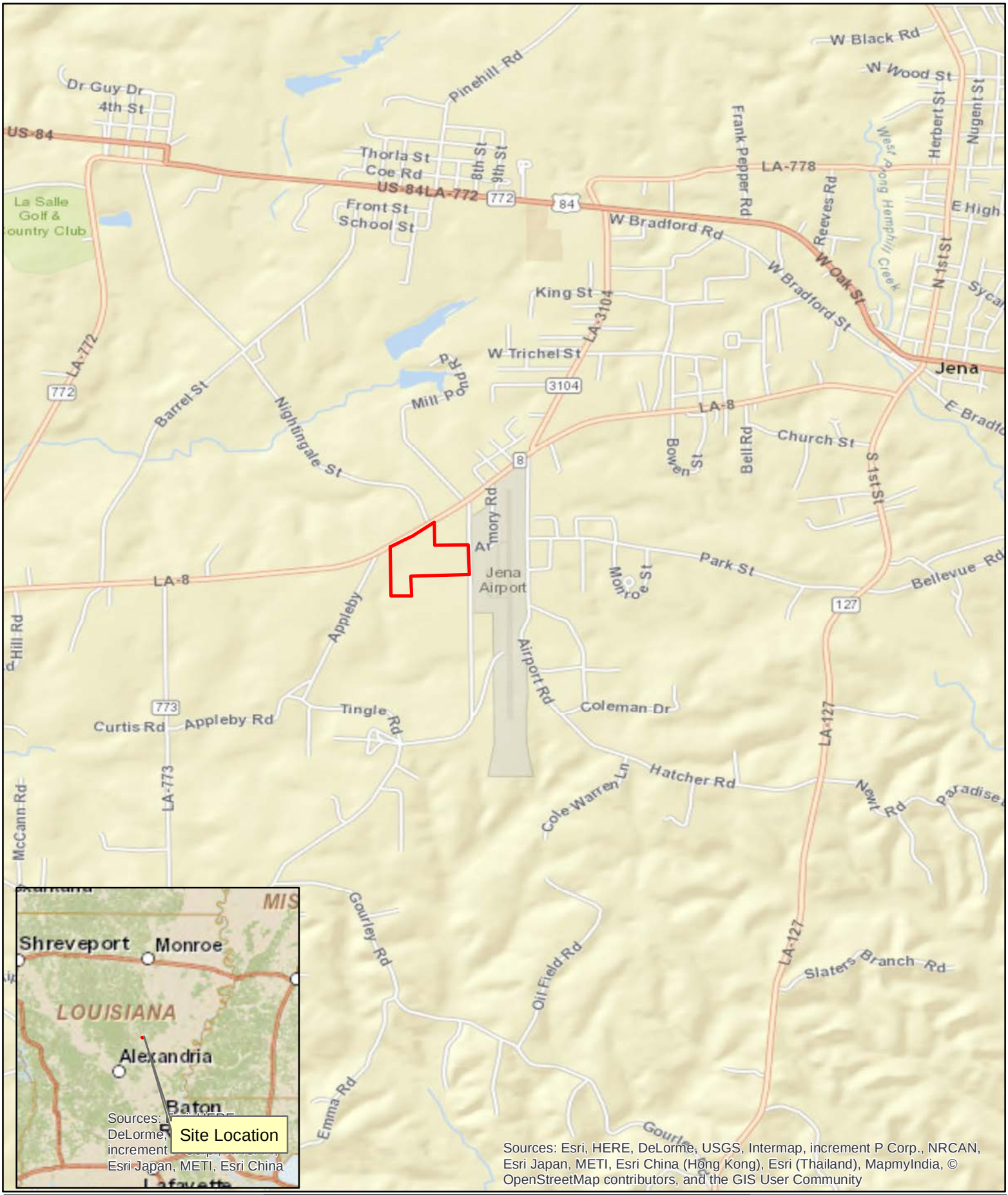
10.5 Regulatory Records Documentation
- 10.5a Site Specific Documents (if any)
- 10.5b Third-Party Database Product

10.6 Interview Documentation

10.7 Special Contractual Conditions (if any)

10.8 Qualifications of the Environmental Professional

## 10.1 Vicinity Map




Appendix 10.1 Location
LeSalle Economic
Development District
Jena Site ESA

**Legend**

Inspection Boundary

DATE: 1-7-2016
DRAWN BY: GAM
THIS IS NOT A SURVEY

N W E S

0 0.25 0.5 Miles

biome Consulting Group
1300 West Government Street
Pensacola, Florida 32502 · 850-435-9367

## 10.2 Site Plan

Appendix 10.2 Sketch
LeSalle Economic Development District
Jena Site ESA

**Legend**

- HistoricFlowLine
- HistoricWell
- Inspection Boundary

DATE: 1-7-2016
DRAWN BY: GAM
THIS IS NOT A SURVEY

N W E S

0 135 270 Feet

biome Consulting Group
1300 West Government Street
Pensacola, Florida 32502 · 850-435-9367

## 10.3 Site Photographs

**Photo 1** View of north adjacent undeveloped land

**Photo 2** View of northeast adjacent industrial facility

**Photo 3** View of east adjacent Louisiana Department of Forestry facility

**Photo 4** View of east adjacent Justiss Oil Company

**Photo 5** View of east adjacent Jena Airport

**Photo 6** View of oil well on south adjacent property

**Photo** 7 View of well on south adjacent property fronting Hanger Road

**Photo 8** View of sign adjacent to well

**Photo 9** View of west adjacent undeveloped land from western property boundary

**Photo 10** Looking south through site from near center of northern boundary

**Photo 11** Looking east along northern boundary from near center of northern boundary

**Photo 12** Looking west along northern boundary from near northeast property corner (adjacent to SR8)

**Photo 13** Looking south along eastern boundary from near northeast property corner

**Photo 14** Looking north along eastern boundary from near interior property corner

**Photo 15** Looking east along northern boundary from near interior property corner

**Photo 16** Looking west along northern boundary from near northeast property corner (adjacent to Hanger Road)

**Photo 17** Looking south along eastern boundary from near northeast property corner

**Photo 18** Looking north through site from southern property boundary

**Photo 19** Looking northwest through site from near interior property corner

**Photo 20** Looking northeast from near southwest property corner

**Photo 21** View of partially buried 2” iron pipe located west of old well pad

## 10.4 Historical Research Documentation

# 10.4a Tax Card

Tom Kendrick, CLA
LaSalle Parish Assessor
P.O. Box 400
Jena, LA 71342



# 2015 PARCEL LISTING

**OWNER**
LASALLE ECONOMIC DEVELOPMENT
DISTRICT
P. O. BOX 1889
JENA, LA 71342

**PARCEL# 105815A**

| *Parcel Number* | *Parcel Type* | *Ward* | *Physical Address* | *Map Number* |
|---|---|---|---|---|
| 105815A | 9 Exempt Real Esta | 7 | | |

**LOCATIONS- PARCEL#105815A**

| *Subdivision* | *Lot* | *Block* | *Section* | *Township* | *Range* | *Tract* | *Part* | *Condo* |
|---|---|---|---|---|---|---|---|---|
| | | | 16 | 08 | 03 | 01-01B | | |

**ITEMS- PARCEL#105815A**

| *Description* | *Assessed Value* | *Homestead Value* | *Market Value* | *Units* | *HS Units* |
|---|---|---|---|---|---|
| 06 TIMBER CLASS 2 | 580 | | | 21.00 | 0.00 |
| **Item Totals** | **580** | | | **21.00** | **0.00** |

**LEGAL DESCRIPTION- PARCEL#105815A**

RURAL: 21.18 ACRES SITUATED IN SE/NE AND NE/SE OF SEC. 16, T8N, R3E

NOTES:
MAP PAGE #141A

309/232; 310/1, 347

**DEEDS- PARCEL#105815A**

| *Type* | *Deed Number* | *Recorded* | *Book* | *Page* | *Sales Price* |
|---|---|---|---|---|---|
| CASH DEED | 220463 | 12/28/2011 | 356 | 785 | 154,500.00 |
| CORRECTION | 220462 | 12/28/2011 | 356 | 778 | 0.00 |
| PARTIAL RELEASE | 220490 | 12/29/2011 | 357 | 56 | 0.00 |
| RIGHT OF WAY | 225391 | 06/13/2013 | 370 | 291 | 0.00 |
| LEASE | 225912 | 08/02/2013 | 371 | 634 | 0.00 |

**CURRENT OWNERSHIP**

| *HS* | *Owner Name* | *Primary* | *% Owned* | *% Tax* | *From* |
|---|---|---|---|---|---|
| NO | LASALLE ECONOMIC DEVELOPMENT DIS | YES | 100.0000 | 100.0000 | 12/28/2011 |

**PARISH TAXES**

| ***Millage*** | ***Mills*** | ***Taxpayer*** | ***Homestead*** |
|---|---|---|---|
| FIRE DIST EDEN-FELLOWSHIP | 14.59 | 8.46 | 0.00 |
| FORESTY TAX | 0.00 | 1.68 | 0.00 |
| HOSPITAL DIST #2 | 5.00 | 2.90 | 0.00 |
| PARISH GENERAL FUND | 3.68 | 2.13 | 0.00 |
| PW AMBULANCE DIST #1 | 4.52 | 2.62 | 0.00 |
| PW ASSESSMENT DIST | 9.42 | 5.46 | 0.00 |
| PW COUNCIL ON AGING | 0.93 | 0.54 | 0.00 |
| PW COURTHOUSE MT & OP | 7.64 | 4.43 | 0.00 |
| PW GARBAGE DIST #1 | 9.27 | 5.38 | 0.00 |
| PW HEALTH UNIT | 1.06 | 0.61 | 0.00 |
| PW LAW ENFORCEMENT DIST | 36.00 | 20.88 | 0.00 |
| PW LIBRARY | 8.71 | 5.05 | 0.00 |
| PW ROADS & BRIDGES | 9.56 | 5.54 | 0.00 |
| PW SCHOOL DISTRICT | 46.45 | 26.94 | 0.00 |
| ROAD DIST #7 | 9.83 | 5.70 | 0.00 |
| **Totals** | 166.66 | 98.32 | 0.00 |

Tom Kendrick, CLA
LaSalle Parish Assessor
P.O. Box 400
Jena, LA 71342



# 2015 PARCEL LISTING

**OWNER**
LASALLE ECONOMIC DEVELOPMENT
DISTRICT
P. O. BOX 1889
JENA, LA 71342

**PARCEL# 101916A**

| *Parcel Number* | *Parcel Type* | *Ward* | *Physical Address* | *Map Number* |
|---|---|---|---|---|
| 101916A | 9 Exempt Real Esta | 6 | | |

**LOCATIONS- PARCEL#101916A**

| *Subdivision* | *Lot* | *Block* | *Section* | *Township* | *Range* | *Tract* | *Part* | *Condo* |
|---|---|---|---|---|---|---|---|---|
| | | | 15 | 08 | 03 | 01-08A | | |

**ITEMS- PARCEL#101916A**

| *Description* | *Assessed Value* | *Homestead Value* | *Market Value* | *Units* | *HS Units* |
|---|---|---|---|---|---|
| 06 TIMBER CLASS 2 | 220 | | | 8.00 | 0.00 |
| **Item Totals** | **220** | | | **8.00** | **0.00** |

**LEGAL DESCRIPTION- PARCEL#101916A**

RURAL: 8 ACRES SITUATED IN SW/NW AND NW/SW OF SEC. 15, T8N, R3E

NOTES:
MAP PAGE#134

309/232; 310/1, 347

**DEEDS- PARCEL#101916A**

| *Type* | *Deed Number* | *Recorded* | *Book* | *Page* | *Sales Price* |
|---|---|---|---|---|---|
| CASH DEED | 220463 | 12/28/2011 | 356 | 785 | 154,500.00 |
| CORRECTION | 220462 | 12/28/2011 | 356 | 778 | 0.00 |
| PARTIAL RELEASE | 220464 | 12/28/2011 | 356 | 796 | 0.00 |
| LEASE | 225912 | 08/02/2013 | 371 | 634 | 0.00 |

**CURRENT OWNERSHIP**

| *HS* | *Owner Name* | *Primary* | *% Owned* | *% Tax* | *From* |
|---|---|---|---|---|---|
| NO | LASALLE ECONOMIC DEVELOPMENT DIS | YES | 100.0000 | 100.0000 | 12/28/2020 |

Tom Kendrick, CLA
LaSalle Parish Assessor
P.O. Box 400
Jena, LA 71342



# 2015 PARCEL LISTING

**PARISH TAXES**

| ***Millage*** | | ***Mills*** | ***Taxpayer*** | ***Homestead*** |
|---|---|---|---|---|
| FORESTY TAX | | 0.00 | 0.64 | 0.00 |
| HOSPITAL DIST #2 | | 5.00 | 1.10 | 0.00 |
| LASALLE SEWER DIST | | 10.02 | 2.20 | 0.00 |
| LASALLE WATER DIST #1 | | 0.00 | 0.00 | 0.00 |
| PARISH GENERAL FUND | | 3.68 | 0.81 | 0.00 |
| PW AMBULANCE DIST #1 | | 4.52 | 0.99 | 0.00 |
| PW ASSESSMENT DIST | | 9.42 | 2.07 | 0.00 |
| PW COUNCIL ON AGING | | 0.93 | 0.20 | 0.00 |
| PW COURTHOUSE MT & OP | | 7.64 | 1.68 | 0.00 |
| PW GARBAGE DIST #1 | | 9.27 | 2.04 | 0.00 |
| PW HEALTH UNIT | | 1.06 | 0.23 | 0.00 |
| PW LAW ENFORCEMENT DIST | | 36.00 | 7.92 | 0.00 |
| PW LIBRARY | | 8.71 | 1.92 | 0.00 |
| PW ROADS & BRIDGES | | 9.56 | 2.10 | 0.00 |
| PW SCHOOL DISTRICT | | 46.45 | 10.22 | 0.00 |
| RECREATION DIST #10 | | 15.94 | 3.51 | 0.00 |
| ROAD DIST #6 | | 9.07 | 2.00 | 0.00 |
| | **Totals** | 177.27 | 39.63 | 0.00 |

Tom Kendrick, CLA
LaSalle Parish Assessor
P.O. Box 400
Jena, LA 71342



# 2016 PARCEL LISTING

OWNER
SPRINGWOOD TIMBERLANDS LLC
22620 HWY. 8 WEST
TROUT, LA 71371

10 cc = $ 44.99

**PARCEL# 105815D**

| *Parcel Number* | *Parcel Type* | *Ward* | *Physical Address* | *Map Number* |
|---|---|---|---|---|
| 105815D | 0 Real Estate / Mobil | 7 | | |

**LOCATIONS- PARCEL#105815D**

| *Subdivision* | *Lot* | *Block* | *Section* | *Township* | *Range* | *Tract* | *Part* | *Condo* |
|---|---|---|---|---|---|---|---|---|
| | | | 16 | 08 | 03 | 01-005 | | |

**ITEMS- PARCEL#105815D**

| *Description* | *Assessed Value* | *Homestead Value* | *Market Value* | *Units* | *HS Units* |
|---|---|---|---|---|---|
| 06 TIMBER CLASS 2 | 2,690 | | | 98.00 | 0.00 |
| **Item Totals** | **2,690** | | | **98.00** | **0.00** |

**LEGAL DESCRIPTION- PARCEL#105815D**

RURAL: 98 ACRES - SIT IN E/2 LYING SOUTH OF STATE HIGHWAY 8 AND EAST OF APPLEBY RD. SEC. 16, T8N, R3E

NOTES:
MAP PAGE #141A

309/232; 310/1, 347; 356/785

**DEED INFORMATION**

| *Type* | *Deed Number* | *Recorded* | *Book* | *Page* | *Sales Price* |
|---|---|---|---|---|---|
| CASH DEED | 227996 | 03 / 21 / 2014 | 376 | 537 | 2,894,217.49 |
| ELECTRICAL SERVITUDE | 225752 | 07 / 25 / 2013 | 371 | 125 | 0.00 |

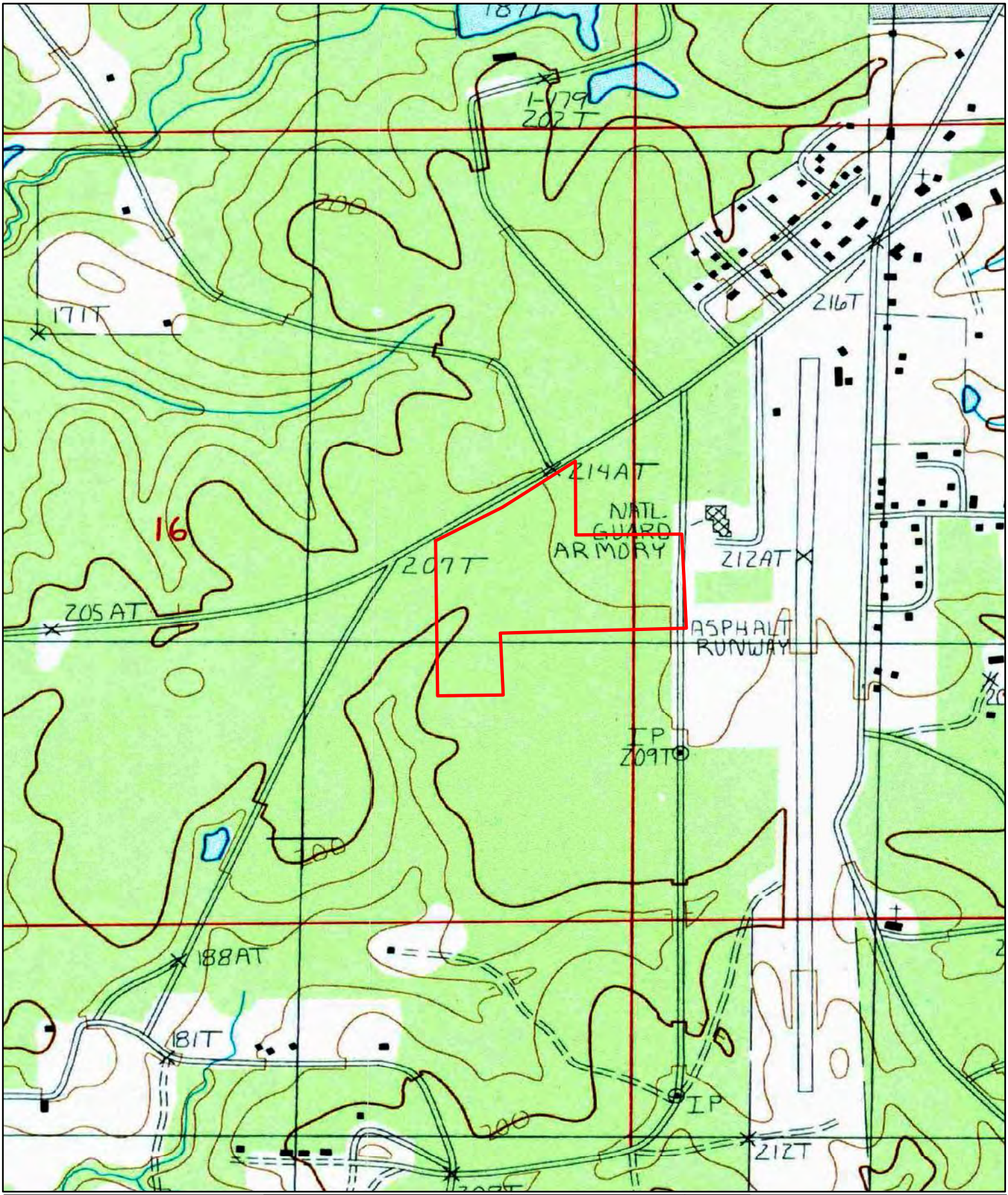
**CURRENT OWNERSHIP**

| *HS* | *Owner Name* | *Primary* | *% Owned* | *% Tax* | *From* |
|---|---|---|---|---|---|
| NO | SPRINGWOOD TIMBERLANDS LLC | YES | 100.0000 | 100.0000 | 03/21/2014 |

**PARISH TAXES**

| *Millage* | *Mills* | *Taxpayer* | *Homestead* |
|---|---|---|---|
| FIRE DIST EDEN-FELLOWSHIP | 14.59 | 39.25 | 0.00 |
| FORESTY TAX | 0.00 | 7.84 | 0.00 |
| HOSPITAL DIST #2 | 5.00 | 13.45 | 0.00 |
| PARISH GENERAL FUND | 3.68 | 9.90 | 0.00 |
| PW AMBULANCE DIST #1 | 4.52 | 12.16 | 0.00 |
| PW ASSESSMENT DIST | 9.42 | 25.34 | 0.00 |
| PW COUNCIL ON AGING | 0.93 | 2.50 | 0.00 |
| PW COURTHOUSE MT & OP | 7.64 | 20.55 | 0.00 |
| PW GARBAGE DIST #1 | 9.27 | 24.94 | 0.00 |
| PW HEALTH UNIT | 1.06 | 2.85 | 0.00 |
| PW LAW ENFORCEMENT DIST | 36.00 | 96.84 | 0.00 |
| PW LIBRARY | 8.71 | 23.43 | 0.00 |
| PW ROADS & BRIDGES | 9.56 | 25.72 | 0.00 |
| PW SCHOOL DISTRICT | 46.45 | 124.95 | 0.00 |
| ROAD DIST #7 | 9.83 | 26.44 | 0.00 |
| **Totals** | 166.66 | 456.16 | 0.00 |

## 10.4b Topographic Map




1985 USGS Topo
LeSalle Economic
Development District
Jena Site ESA

**Legend**

Inspection Boundary

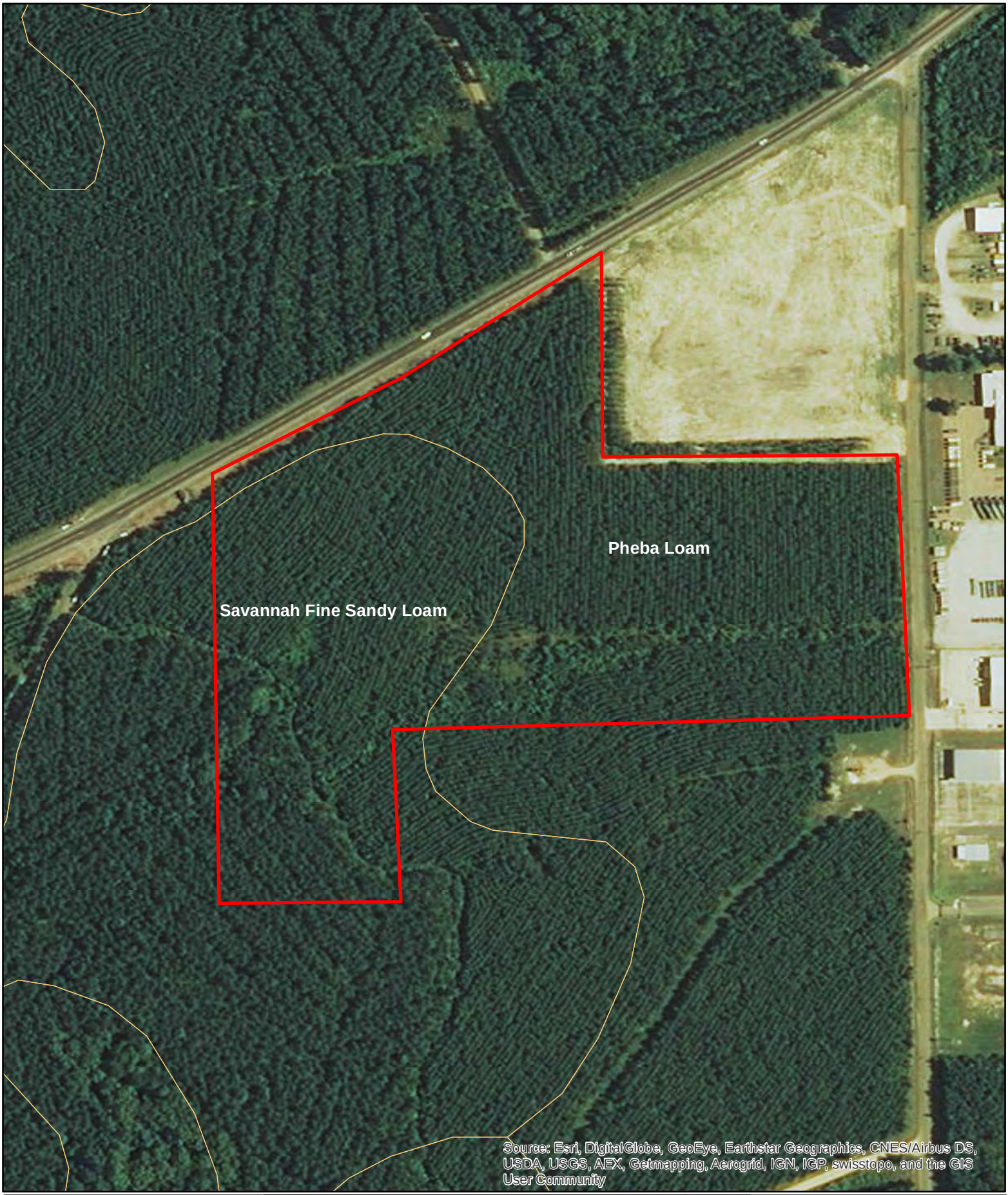
DATE: 1-7-2016
DRAWN BY: GAM
THIS IS NOT A SURVEY

N W E S

0 412.5 825 Feet

biome Consulting Group
1300 West Government Street
Pensacola, Florida 32502 · 850-435-9367

# 10.4c Soil Map




Soil Map
LeSalle Economic Development District
Jena Site ESA

**Legend**

Inspection Boundary

Soil Units

DATE: 1-7-2016

DRAWN BY: GAM

THIS IS NOT A SURVEY

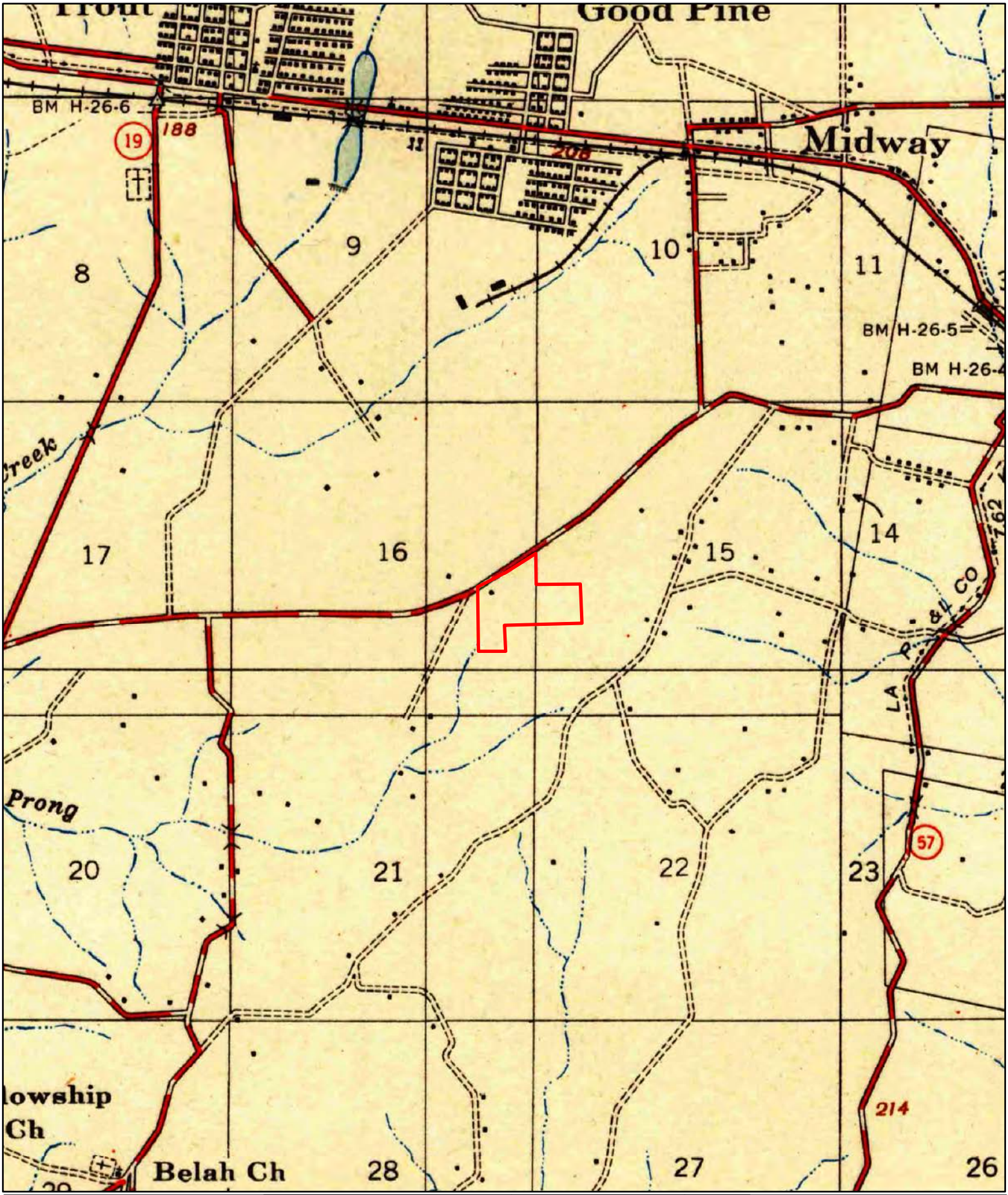
N W E S

0 150 300 Feet

biome Consulting Group
1300 West Government Street
Pensacola, Florida 32502 · 850-435-9367

# 10.4d Title Records

## 10.4e Historic Aerial Photographs and other Maps




1941 Topo Map
LeSalle Economic
Development District
Jena Site ESA

**Legend**

Inspection Boundary

DATE: 1-7-2016
DRAWN BY: GAM
THIS IS NOT A SURVEY

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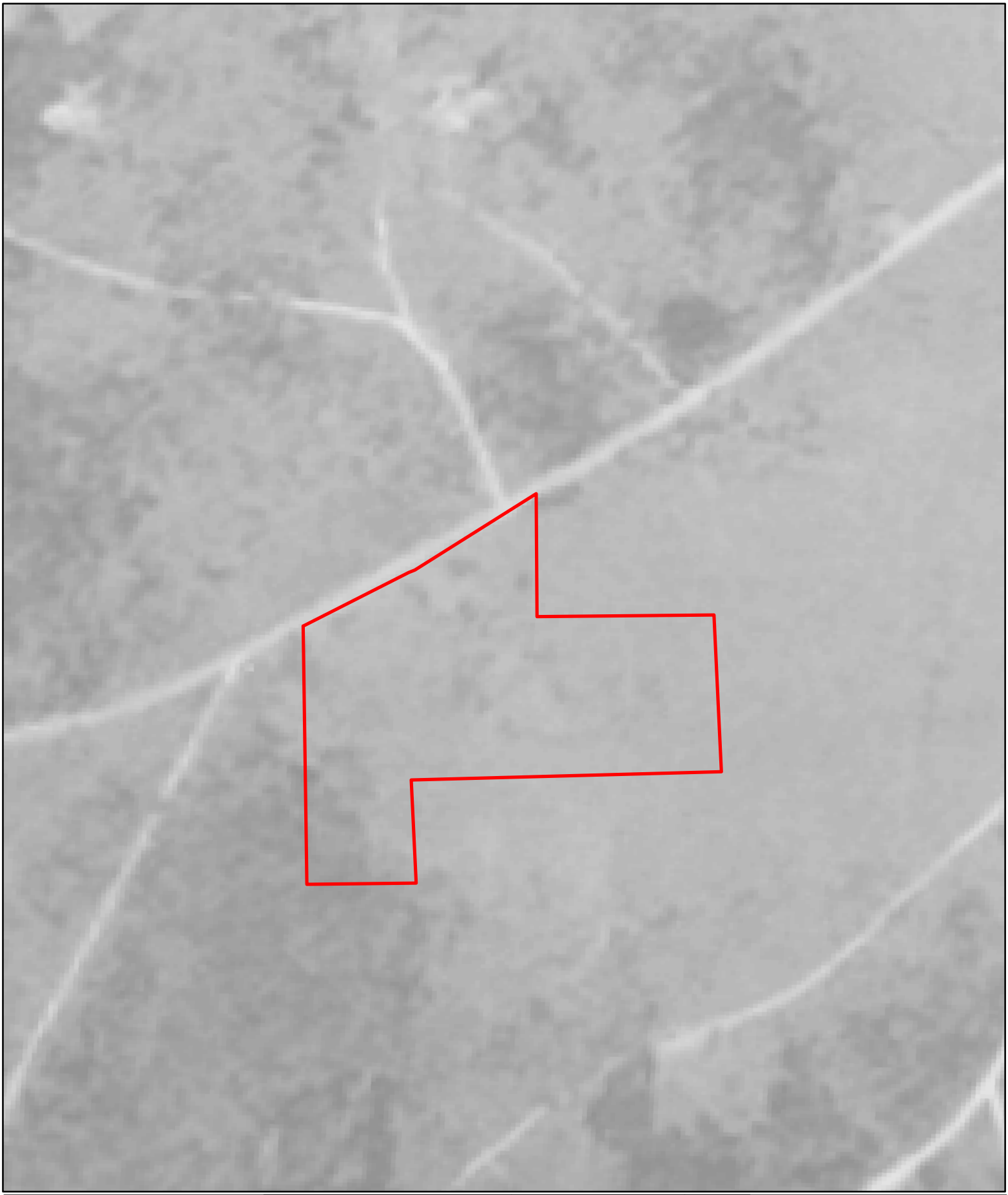
biome Consulting Group
1300 West Government Street
Pensacola, Florida 32502 · 850-435-9367



1952 Aerial Photograph
LeSalle Economic
Development District
Jena Site ESA

Inspection Boundary

DATE: 1-7-2016
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THIS IS NOT A SURVEY

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Pensacola, Florida 32502 · 850-435-9367

1976 Aerial Photograph
LeSalle Economic
Development District
Jena Site ESA

Inspection Boundary

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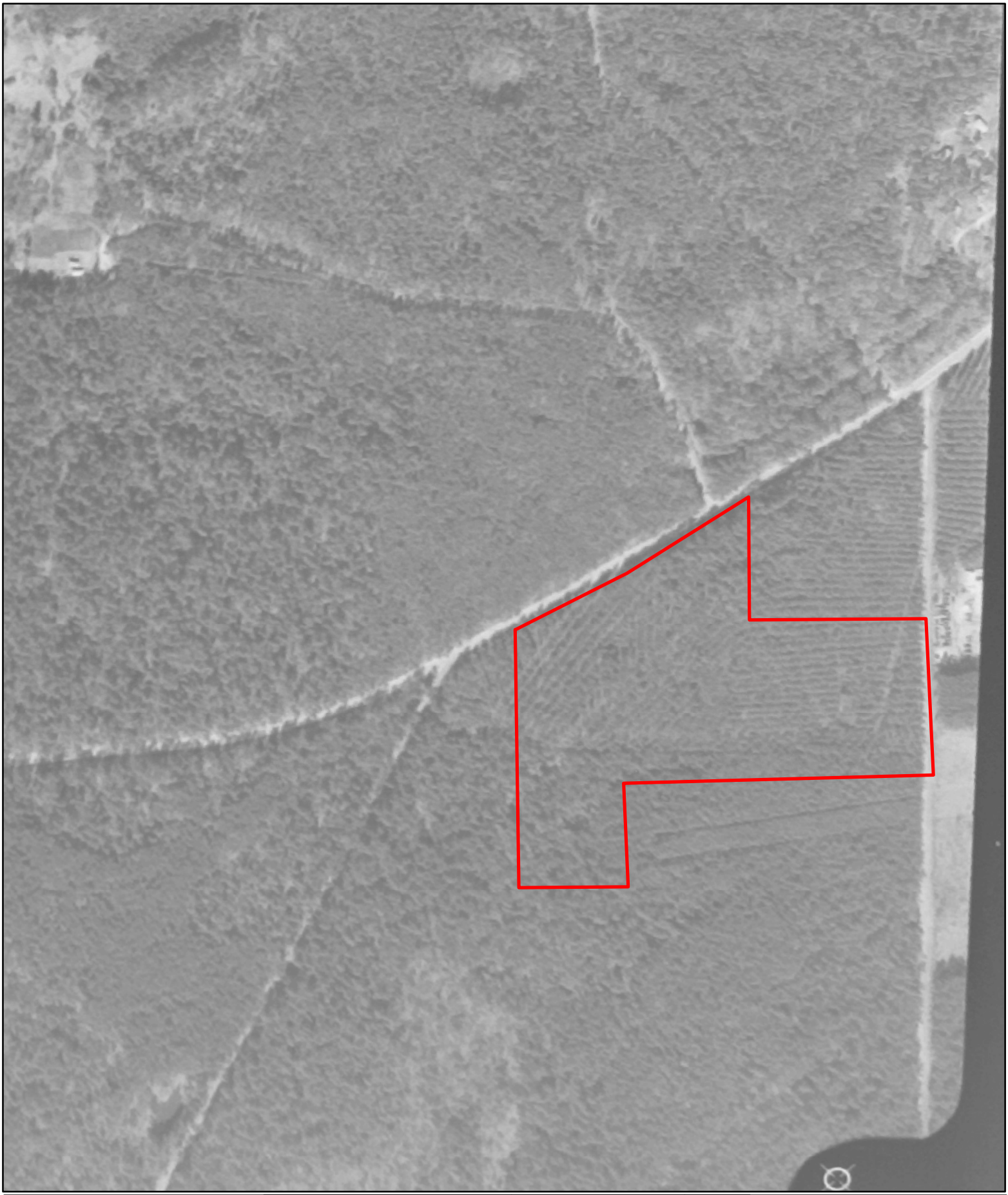
1300 West Government Street
Pensacola, Florida 32502 · 850-435-9367



1980 Aerial Photograph
LeSalle Economic
Development District
Jena Site ESA

Inspection Boundary

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Consulting Group
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Pensacola, Florida 32502 · 850-435-9367

1998 Aerial Photograph
LeSalle Economic
Development District
Jena Site ESA

Inspection Boundary

DATE: 1-7-2016
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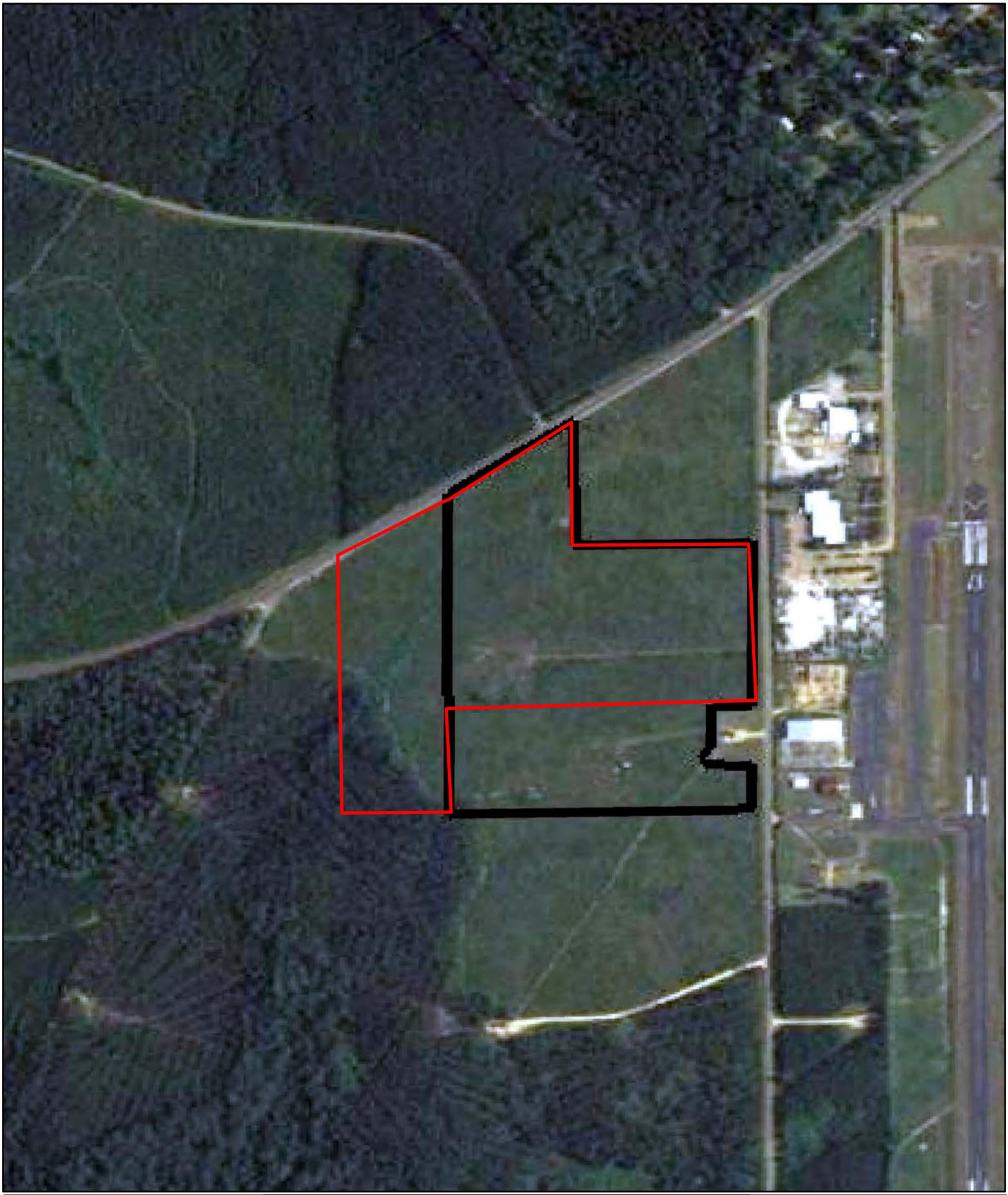
1300 West Government Street
Pensacola, Florida 32502 · 850-435-9367



2005 Aerial Photograph
LeSalle Economic
Development District
Jena Site ESA

Inspection Boundary

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2005 Aerial Photograph
LeSalle Economic
Development District
Jena Site ESA

Inspection Boundary

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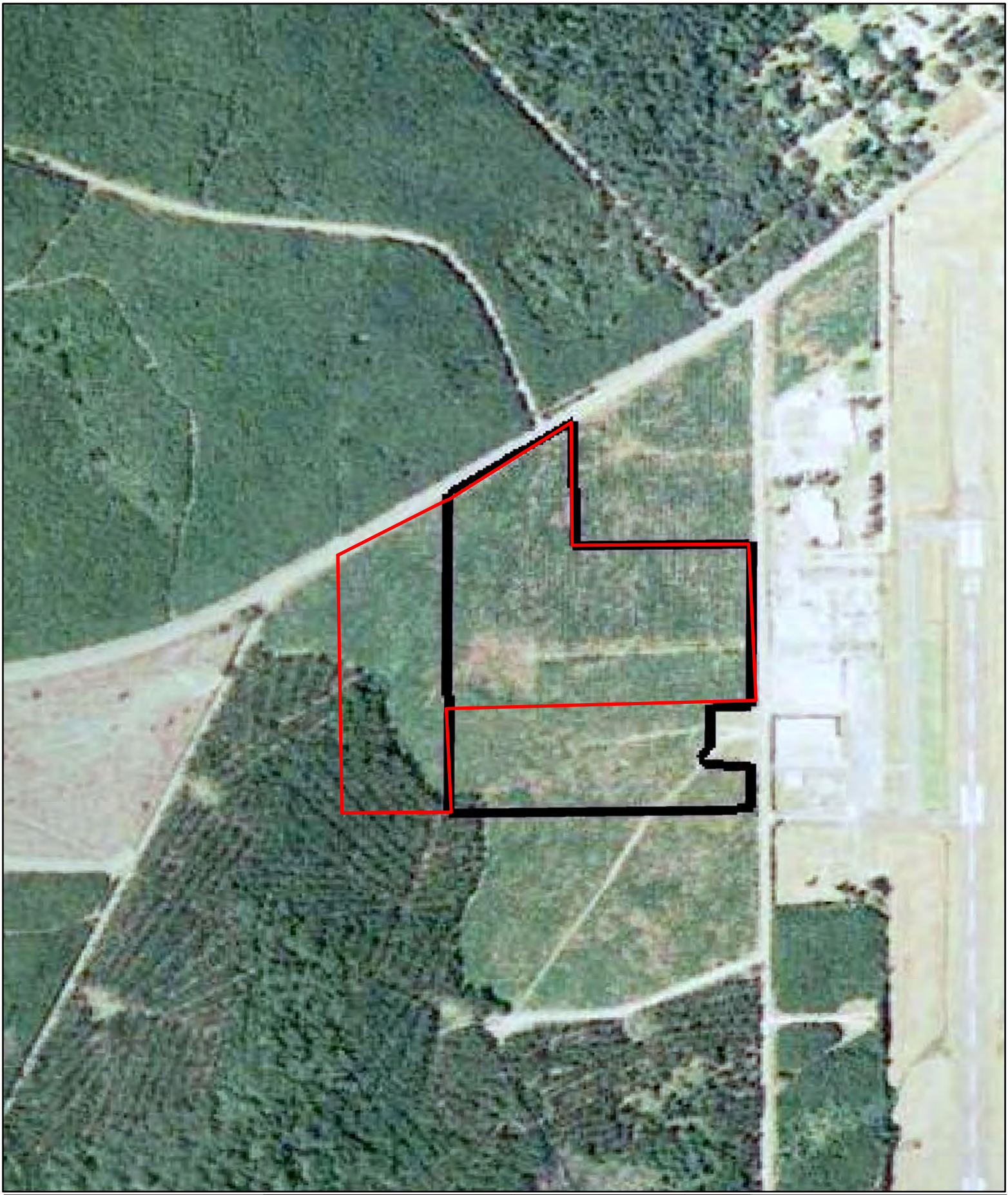
Pensacola, Florida 32502 · 850-435-9367



2007 Aerial Photograph
LeSalle Economic
Development District
Jena Site ESA

Inspection Boundary

DATE: 1-7-2016
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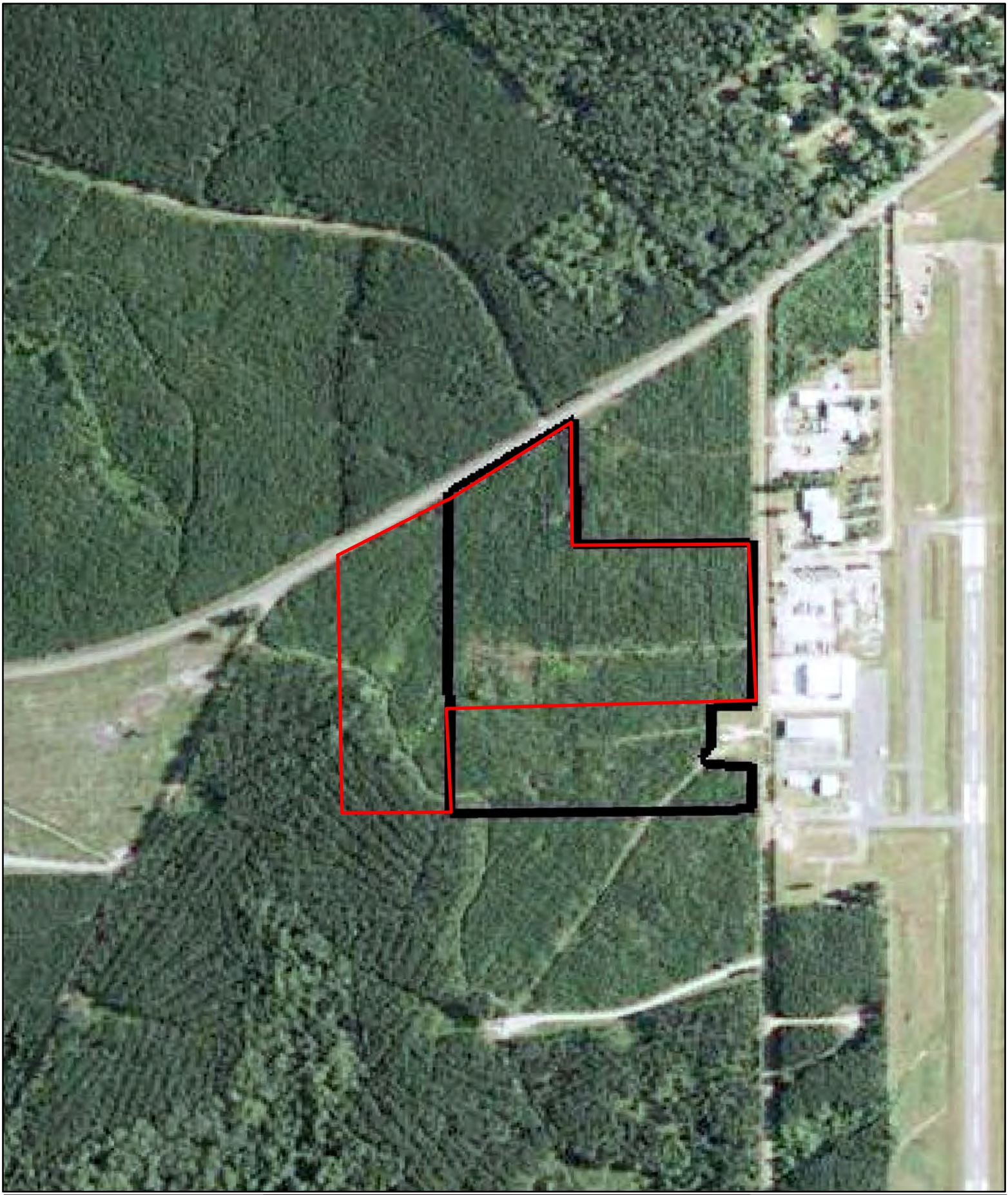
Consulting Group
1300 West Government Street
Pensacola, Florida 32502 · 850-435-9367



2009 Aerial Photograph
LeSalle Economic
Development District
Jena Site ESA

Inspection Boundary

DATE: 1-7-2016
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THIS IS NOT A SURVEY

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2010 Aerial Photograph
LeSalle Economic
Development District
Jena Site ESA

Inspection Boundary

DATE: 1-7-2016
DRAWN BY: GAM
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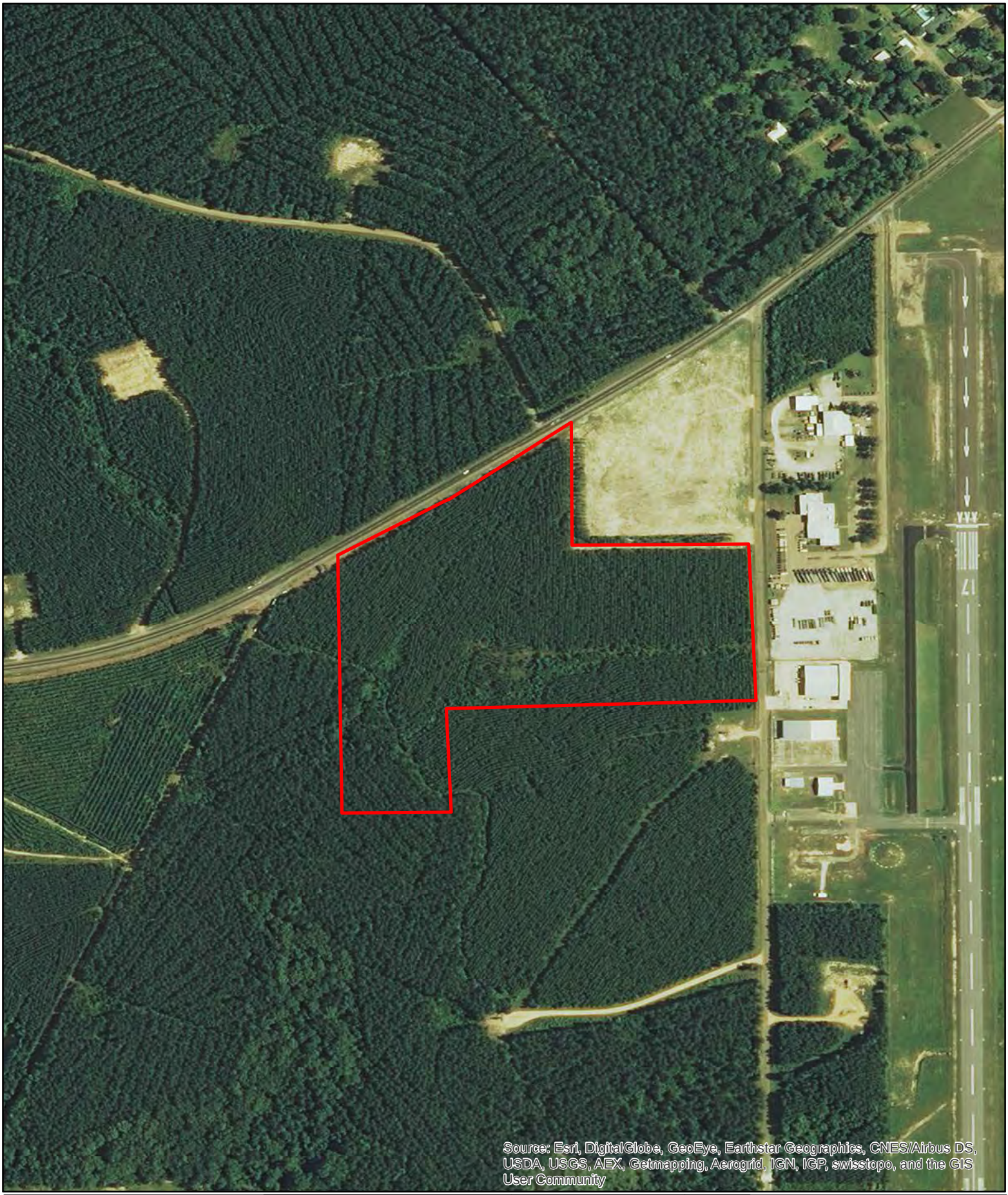
Consulting Group
1300 West Government Street
Pensacola, Florida 32502 · 850-435-9367




2013 Aerial Photograph
LeSalle Economic
Development District
Jena Site ESA

Inspection Boundary

DATE: 1-7-2016
DRAWN BY: GAM
THIS IS NOT A SURVEY

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Feet

biome Consulting Group
1300 West Government Street
Pensacola, Florida 32502 · 850-435-9367

2014 Aerial Photograph
LeSalle Economic
Development District
Jena Site ESA

Inspection Boundary

DATE: 1-7-2016
DRAWN BY: GAM
THIS IS NOT A SURVEY

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0 250 500
Feet

biome
Consulting Group
1300 West Government Street
Pensacola, Florida 32502 · 850-435-9367

## 10.5 Regulatory Records Documentation

# 10.5a Site Specific Documents

## 10.5b Third-Party Database Product

**Jenna LED Site**
Hanger Rd
Jena, LA 71342

Inquiry Number: 4508333.1s
January 08, 2016

# FirstSearch Report

EDR® Environmental Data Resources Inc

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

# Search Summary Report

**TARGET SITE** **HANGER RD**
**JENA, LA 71342**

| Category | Sel | Site | 1/8 | 1/4 | 1/2 | > 1/2 | ZIP | TOTALS |
|---|---|---|---|---|---|---|---|---|
| ***NPL*** | Y | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ***NPL Delisted*** | Y | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ***CERCLIS*** | Y | 0 | 0 | 0 | 0 | - | 0 | 0 |
| ***NFRAP*** | Y | 0 | 0 | 0 | 0 | - | 0 | 0 |
| ***RCRA COR ACT*** | Y | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ***RCRA TSD*** | Y | 0 | 0 | 0 | 0 | - | 0 | 0 |
| ***RCRA GEN*** | Y | 0 | 0 | 0 | - | - | 0 | 0 |
| ***Federal IC / EC*** | Y | 0 | 0 | 0 | 0 | - | 0 | 0 |
| ***ERNS*** | Y | 0 | - | - | - | - | 0 | 0 |
| ***State/Tribal CERCLIS*** | Y | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ***State/Tribal SWL*** | Y | 0 | 0 | 0 | 0 | - | 0 | 0 |
| ***State/Tribal LTANKS*** | Y | 0 | 0 | 0 | 0 | - | 0 | 0 |
| ***State/Tribal Tanks*** | Y | 0 | 0 | 1 | - | - | 0 | 1 |
| ***State/Tribal IC / EC*** | Y | 0 | 0 | 0 | 0 | - | 0 | 0 |
| ***State/Tribal VCP*** | Y | 0 | 0 | 0 | 0 | - | 0 | 0 |
| ***ST/Tribal Brownfields*** | Y | 0 | 0 | 0 | 0 | - | 0 | 0 |
| ***US Brownfields*** | Y | 0 | 0 | 0 | 0 | - | 0 | 0 |
| ***Other Haz Sites*** | Y | 0 | - | - | - | - | 0 | 0 |
| ***Spills*** | Y | 0 | - | - | - | - | 0 | 0 |
| ***Other*** | Y | 0 | 0 | 0 | - | - | 0 | 0 |
| | - Totals -- | 0 | 0 | 1 | 0 | 0 | 0 | 1 |

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# Search Summary Report

**TARGET SITE:** **HANGER RD**
**JENA, LA 71342**

| Category | Database | Update | Radius | Site | 1/8 | 1/4 | 1/2 | > 1/2 | ZIP | TOTALS |
|---|---|---|---|---|---|---|---|---|---|---|
| ***NPL*** | NPL | 10/30/2015 | 1.000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Proposed NPL | 10/30/2015 | 1.000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ***NPL Delisted*** | Delisted NPL | 10/30/2015 | 1.000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ***CERCLIS*** | CERCLIS | 10/25/2013 | 0.500 | 0 | 0 | 0 | 0 | - | 0 | 0 |
| ***NFRAP*** | CERCLIS-NFRAP | 10/25/2013 | 0.500 | 0 | 0 | 0 | 0 | - | 0 | 0 |
| ***RCRA COR ACT*** | CORRACTS | 06/09/2015 | 1.000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ***RCRA TSD*** | RCRA-TSDF | 06/09/2015 | 0.500 | 0 | 0 | 0 | 0 | - | 0 | 0 |
| ***RCRA GEN*** | RCRA-LQG | 06/09/2015 | 0.250 | 0 | 0 | 0 | - | - | 0 | 0 |
| | RCRA-SQG | 06/09/2015 | 0.250 | 0 | 0 | 0 | - | - | 0 | 0 |
| | RCRA-CESQG | 06/09/2015 | 0.250 | 0 | 0 | 0 | - | - | 0 | 0 |
| ***Federal IC / EC*** | US ENG CONTROLS | 09/10/2015 | 0.500 | 0 | 0 | 0 | 0 | - | 0 | 0 |
| | US INST CONTROL | 09/10/2015 | 0.500 | 0 | 0 | 0 | 0 | - | 0 | 0 |
| ***ERNS*** | ERNS | 06/22/2015 | TP | 0 | - | - | - | - | 0 | 0 |
| ***State/Tribal CERCLIS*** | SHWS | 09/28/2015 | 1.000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ***State/Tribal SWL*** | SWF/LF | 09/11/2015 | 0.500 | 0 | 0 | 0 | 0 | - | 0 | 0 |
| ***State/Tribal LTANKS*** | LUST | 09/28/2015 | 0.500 | 0 | 0 | 0 | 0 | - | 0 | 0 |
| | INDIAN LUST | 10/27/2015 | 0.500 | 0 | 0 | 0 | 0 | - | 0 | 0 |
| | HIST LUST | 11/01/1999 | 0.500 | 0 | 0 | 0 | 0 | - | 0 | 0 |
| ***State/Tribal Tanks*** | UST | 09/28/2015 | 0.250 | 0 | 0 | 1 | - | - | 0 | 1 |
| | INDIAN UST | 10/20/2015 | 0.250 | 0 | 0 | 0 | - | - | 0 | 0 |
| ***State/Tribal IC / EC*** | AUL | 10/18/2010 | 0.500 | 0 | 0 | 0 | 0 | - | 0 | 0 |
| ***State/Tribal VCP*** | VCP | 09/28/2015 | 0.500 | 0 | 0 | 0 | 0 | - | 0 | 0 |
| ***ST/Tribal Brownfields*** | BROWNFIELDS | 09/28/2015 | 0.500 | 0 | 0 | 0 | 0 | - | 0 | 0 |
| ***US Brownfields*** | US BROWNFIELDS | 09/21/2015 | 0.500 | 0 | 0 | 0 | 0 | - | 0 | 0 |

# Search Summary Report

**TARGET SITE:** **HANGER RD**
**JENA, LA 71342**

| Category | Database | Update | Radius | Site | 1/8 | 1/4 | 1/2 | > 1/2 | ZIP | TOTALS |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Other Haz Sites*** | US CDL | 08/12/2015 | TP | 0 | - | - | - | - | 0 | 0 |
| ***Spills*** | HMIRS | 06/24/2015 | TP | 0 | - | - | - | - | 0 | 0 |
| | SPILLS | 08/17/2015 | TP | 0 | - | - | - | - | 0 | 0 |
| | SPILLS 90 | 10/30/2012 | TP | 0 | - | - | - | - | 0 | 0 |
| ***Other*** | RCRA NonGen / NLR | 06/09/2015 | 0.250 | 0 | 0 | 0 | - | - | 0 | 0 |
| | TSCA | 12/31/2012 | TP | 0 | - | - | - | - | 0 | 0 |
| | TRIS | 12/31/2013 | TP | 0 | - | - | - | - | 0 | 0 |
| | SSTS | 12/31/2009 | TP | 0 | - | - | - | - | 0 | 0 |
| | RAATS | 04/17/1995 | TP | 0 | - | - | - | - | 0 | 0 |
| | PRP | 10/25/2013 | TP | 0 | - | - | - | - | 0 | 0 |
| | PADS | 07/01/2014 | TP | 0 | - | - | - | - | 0 | 0 |
| | ICIS | 01/23/2015 | TP | 0 | - | - | - | - | 0 | 0 |
| | FTTS | 04/09/2009 | TP | 0 | - | - | - | - | 0 | 0 |
| | MLTS | 06/26/2015 | TP | 0 | - | - | - | - | 0 | 0 |
| | RADINFO | 07/07/2015 | TP | 0 | - | - | - | - | 0 | 0 |
| | INDIAN RESERV | 12/31/2005 | 1.000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | US AIRS | 10/20/2015 | TP | 0 | - | - | - | - | 0 | 0 |
| | FINDS | 07/20/2015 | TP | 0 | - | - | - | - | 0 | 0 |
| | - Totals -- | | | 0 | 0 | 1 | 0 | 0 | 0 | 1 |

# Site Information Report

| | | | |
|---|---|---|---|
| **Request Date:** | JANUARY 8, 2016 | **Search Type:** | COORD |
| **Request Name:** | GLEN MILEY | **Job Number:** | NA |

**Target Site:** HANGER RD
JENA, LA 71342

## *Site Location*

| | Degrees (Decimal) | Degrees (Min/Sec) | | UTMs |
|---|---|---|---|---|
| Longitude: | 92.160300 | 92.1603000 - 92˚ 9' 37.08'' | Easting: | 579599.7 |
| Latitude: | 31.670200 | 31.6702000 - 31˚ 40' 12.72'' | Northing: | 3504000.8 |
| Elevation: | 210 ft. above sea level | | Zone: | Zone 15 |

## *Demographics*

**Sites:** 1 **Non-Geocoded:** 0 **Population:** N/A

**RADON**

Federal EPA Radon Zone for LA SALLE 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: 71342

Number of sites tested: 6

| Area | Average Activity | % <4 pCi/L | % 4-20 pCi/L | % >20 pCi/L |
|---|---|---|---|---|
| Living Area - 1st Floor | 0.350 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 |

Federal Area Radon Information for LA SALLE COUNTY, LA

Number of sites tested: 10

| Area | Average Activity | % <4 pCi/L | % 4-20 pCi/L | % >20 pCi/L |
|---|---|---|---|---|
| Living Area - 1st Floor | 0.290 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 |

# Site Information Report

**RADON**

State Database: LA Radon

Radon Test Results

| Parish | Avg pCi/L | Total Sites |
|---|---|---|
| LA SALLE | 0.29000 | 10 |

# Target Site Summary Report

Target Property: HANGER RD
JENA, LA 71342

JOB: NA

TOTAL: 1 GEOCODED: 1 NON GEOCODED: 0

| Map ID | DB Type --ID/Status | Site Name | Address | Dist/Dir | ElevDiff | Page No. |
|---|---|---|---|---|---|---|

**No sites found for target address**

# Sites Summary Report

Target Property: HANGER RD
JENA, LA 71342

JOB: NA

TOTAL: 1 GEOCODED: 1 NON GEOCODED: 0

| Map ID | DB Type --ID/Status | Site Name | Address | Dist/Dir | ElevDiff | Page No. |
|---|---|---|---|---|---|---|
| 1 | UST<br>--2767<br>--Closed | GORAN INC | 426 AIRPORT RD<br>JENA, LA 71342 | 0.23 East | + 0 | 1 |

# Site Detail Report

Target Property: HANGER RD
JENA, LA 71342

JOB: NA

UST

**EDR ID:** U003969902 **DIST/DIR:** 0.228 East **ELEVATION:** 210 **MAP ID:** 1

**NAME:** GORAN INC
**ADDRESS:** 426 AIRPORT RD
JENA, LA 71342
LASALLE
**SOURCE:** LA Department of Environmental Quality

**Rev:** 09/28/2015
ID/Status: 2767
ID/Status: Closed

UST:
Master Agency Id: 2767
Subject Item ID: 1

UST Tank Num: 1314
Tank Status: Closed
Install Date: 10/30/1977
Total Capacity: 24000
Number Of Compartments: 1
Gasoline: Not reported
Diesel: Yes
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: Yes
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

## Database Descriptions

NPL: NPL 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. NPL - National Priority List Proposed NPL - Proposed National Priority List Sites.

NPL Delisted: Delisted NPL 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. Delisted NPL - National Priority List Deletions

CERCLIS: CERCLIS CERCLIS 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). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL. CERCLIS - Comprehensive Environmental Response, Compensation, and Liability Information System

NFRAP: CERCLIS-NFRAP Archived sites are sites that have been removed and archived from the inventory of CERCLIS 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 this 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. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site. CERCLIS-NFRAP - CERCLIS No Further Remedial Action Planned

RCRA COR ACT: CORRACTS CORRACTS identifies hazardous waste handlers with RCRA corrective action activity. CORRACTS - Corrective Action Report

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

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

Federal IC / EC: US ENG CONTROLS 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. US ENG CONTROLS - Engineering Controls Sites List US INST CONTROL - Sites with Institutional Controls.

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

## Database Descriptions

State/Tribal CERCLIS: SHWS 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. SHWS - Potential and Confirmed Sites List

State/Tribal SWL: SWF/LF 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. SWF/LF - Landfill List

State/Tribal LTANKS: LUST 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. LUST - Leaking Underground Storage Tanks INDIAN LUST R6 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R1 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R4 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R5 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R10 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R9 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R8 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R7 - Leaking Underground Storage Tanks on Indian Land. HIST LUST - Underground Storage Tank Case History Incidents.

State/Tribal Tanks: UST 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. UST - Louisiana Underground Storage Tank Database INDIAN UST R9 - Underground Storage Tanks on Indian Land. INDIAN UST R5 - Underground Storage Tanks on Indian Land. INDIAN UST R10 - Underground Storage Tanks on Indian Land. INDIAN UST R1 - Underground Storage Tanks on Indian Land. INDIAN UST R7 - Underground Storage Tanks on Indian Land. INDIAN UST R8 - Underground Storage Tanks on Indian Land. INDIAN UST R4 - Underground Storage Tanks on Indian Land. INDIAN UST R6 - Underground Storage Tanks on Indian Land.

State/Tribal IC / EC: AUL 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. AUL - Listing of Institutional and/or Enginnering Controls

State/Tribal VCP: VCP Sites that have entered the Department of Environmental Quality's Voluntary Remediation Program VCP - Voluntary Remediation Program Sites

ST/Tribal Brownfields: BROWNFIELDS 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. BROWNFIELDS - Brownfields Inventory

US Brownfields: US BROWNFIELDS Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties 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. US BROWNFIELDS - A Listing of Brownfields Sites

Other Haz Sites: US CDL 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. US CDL - Clandestine Drug Labs

## Database Descriptions

Spills: HMIRS Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT. HMIRS - Hazardous Materials Information Reporting System SPILLS - Emergency Response Section Incidents. SPILLS 90 - SPILLS90 data from FirstSearch.

Other: RCRA NonGen / NLR 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. RCRA NonGen / NLR - RCRA - Non Generators / No Longer Regulated FEDLAND - Federal and Indian Lands. TSCA - Toxic Substances Control Act. TRIS - Toxic Chemical Release Inventory System. SSTS - Section 7 Tracking Systems. 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). FTTS INSP - FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act). MLTS - Material Licensing Tracking System. RADINFO - Radiation Information Database. BRS - Biennial Reporting System. INDIAN RESERV - Indian Reservations. US AIRS (AFS) - Aerometric Information Retrieval System Facility Subsystem (AFS). US AIRS MINOR - Air Facility System Data. FINDS - Facility Index System/Facility Registry System.

## Database Sources

NPL: EPA

Updated Quarterly

NPL Delisted: EPA

Updated Quarterly

CERCLIS: EPA

Updated Quarterly

NFRAP: EPA

Updated Quarterly

RCRA COR ACT: EPA

Updated Quarterly

RCRA TSD: Environmental Protection Agency

Updated Quarterly

RCRA GEN: Environmental Protection Agency

Updated Quarterly

Federal IC / EC: Environmental Protection Agency

Varies

ERNS: National Response Center, United States Coast Guard

Updated Annually

State/Tribal CERCLIS: Department of Environmental Quality

Updated Quarterly

State/Tribal SWL: Department of Environmental Quality

Updated Annually

State/Tribal LTANKS: Department of Environmental Quality

Varies

State/Tribal Tanks: Department of Environmental Quality

Updated Quarterly

## Database Sources

State/Tribal IC / EC: Department of Environmental Quality

Updated Quarterly

State/Tribal VCP: Department of Environmental Quality

Varies

ST/Tribal Brownfields: New Orleans Office of Environmental Affairs

Updated Quarterly

US Brownfields: Environmental Protection Agency

Updated Semi-Annually

Other Haz Sites: Drug Enforcement Administration

Updated Quarterly

Spills: U.S. Department of Transportation

Updated Annually

Other: Environmental Protection Agency

Varies

# Street Name Report for Streets near the Target Property

Target Property: HANGER RD
JENA, LA 71342

JOB: NA

| Street Name | Dist/Dir | Street Name | Dist/Dir |
|---|---|---|---|
| Armory Rd | 0.15 NNE | | |
| Hanger Rd | 0.02 East | | |
| Hatcher Rd | 0.22 East | | |
| McCoy Ln | 0.22 East | | |
| Nesby Loop | 0.24 ESE | | |

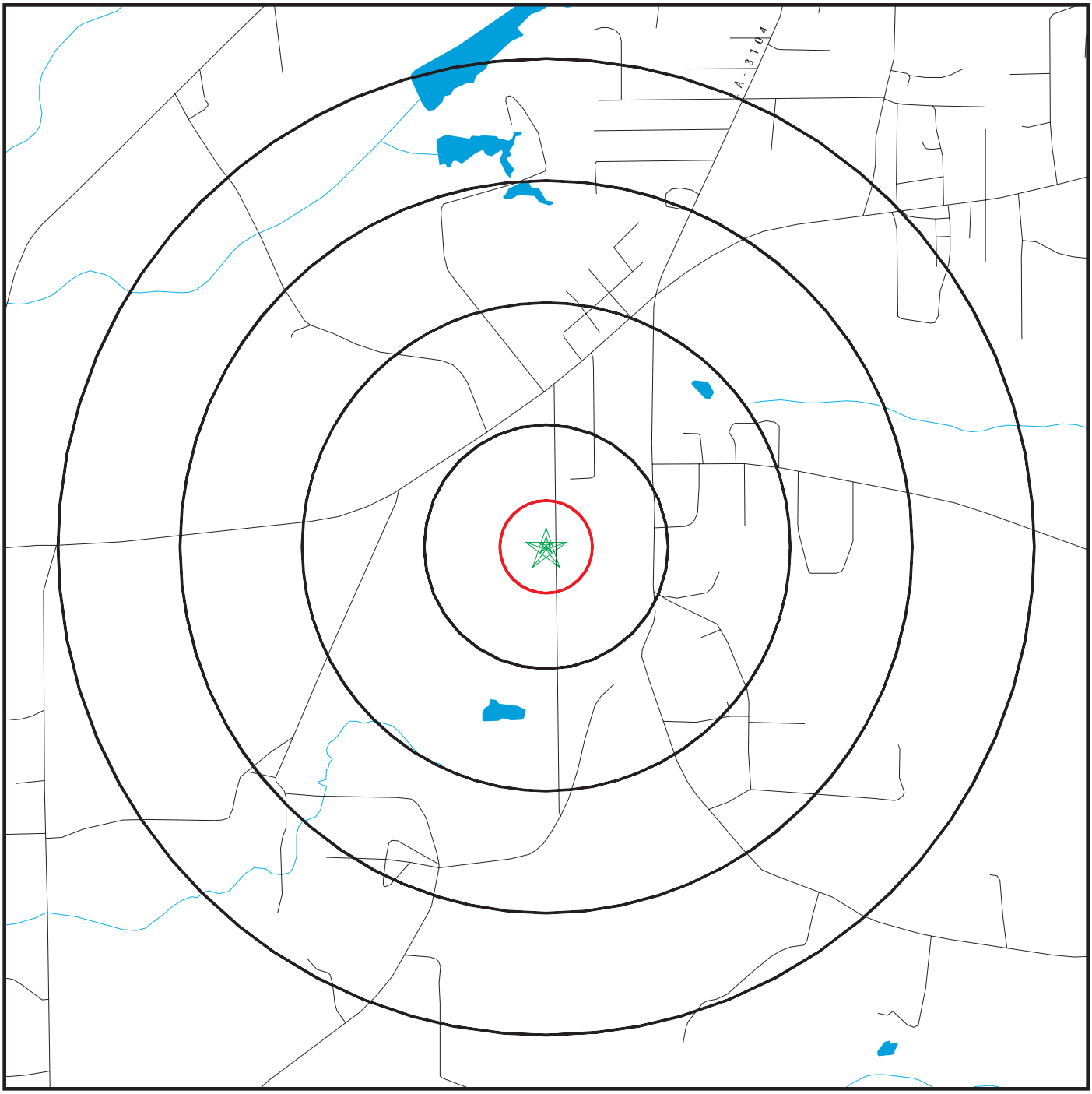
# Environmental FirstSearch

1.000 Mile Radius

ASTM MAP: NPL, RCRACOR, STATES Sites

EDR® Environmental Data Resources Inc

HANGER RD JENA, LA 71342




Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

★ Target Property (Latitude: 31.6702 Longitude: 92.1603)

▲ Identified Sites

National Priority List Sites

Indian Reservations BIA

EDR Reference Code (EDR internal use only): 4508333.1s
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16-01-08.10:38:12.Fri

# Environmental FirstSearch

0.500 Mile Radius

ASTM MAP: CERCLIS, RCRATSD, LUST, SWL

EDR® Environmental Data Resources Inc

HANGER RD JENA, LA 71342

Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

★ Target Property (Latitude: 31.6702 Longitude: 92.1603)

▲ Identified Sites

National Priority List Sites

Indian Reservations BIA

EDR Reference Code (EDR internal use only): 4508333.1s
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16-01-08.10:38:22.Fri

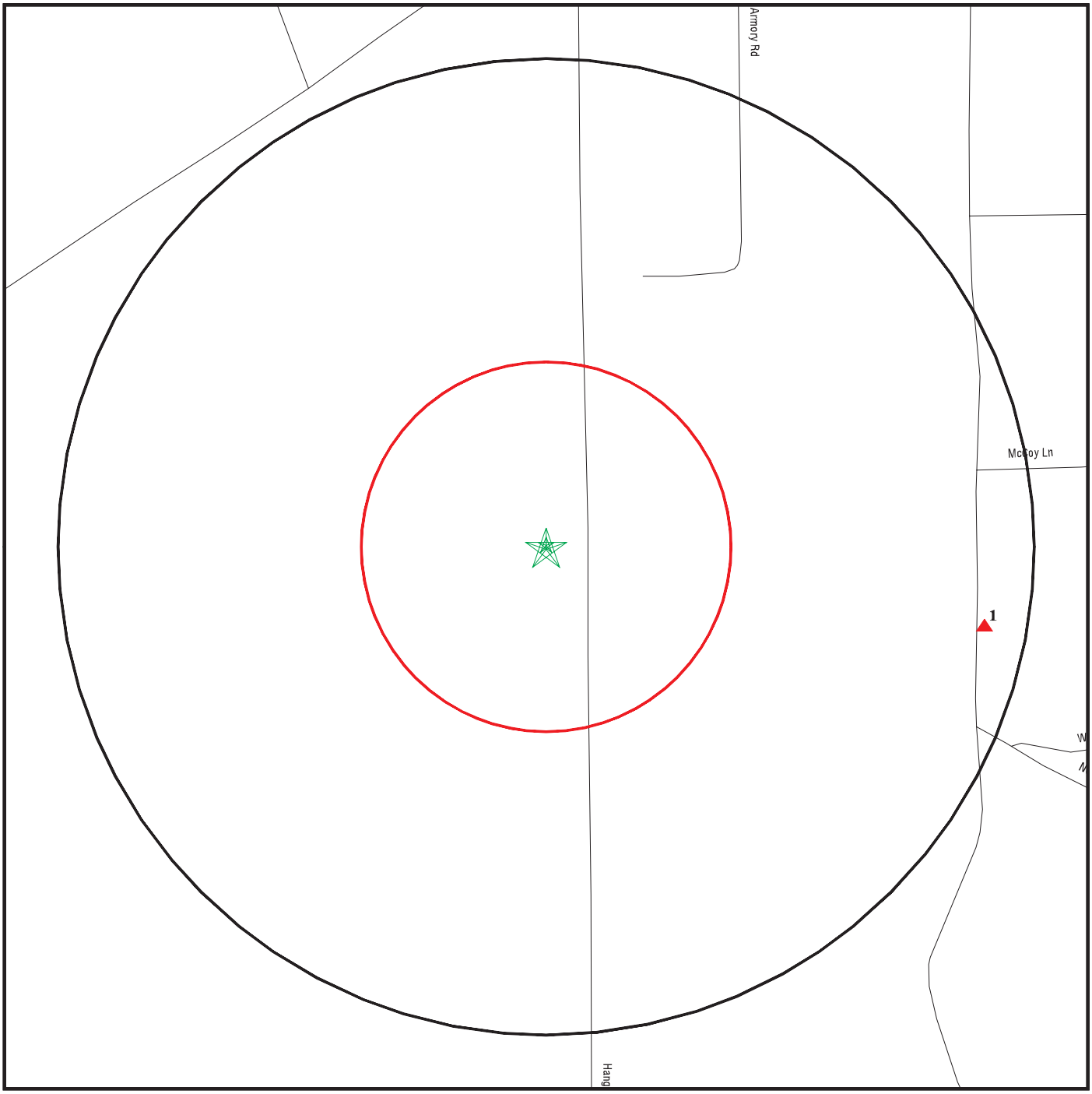
# Environmental FirstSearch

0.25 Mile Radius

ASTM MAP: RCRAGEN, ERNS, UST, FED IC/EC, METH LABS

EDR® Environmental Data Resources Inc

HANGER RD JENA, LA 71342




**Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius**

★ **Target Property (Latitude: 31.6702 Longitude: 92.1603)**

▲ **Identified Sites**

**National Priority List Sites**

**Indian Reservations BIA**


**EDR Reference Code (EDR internal use only): 4508333.1s**

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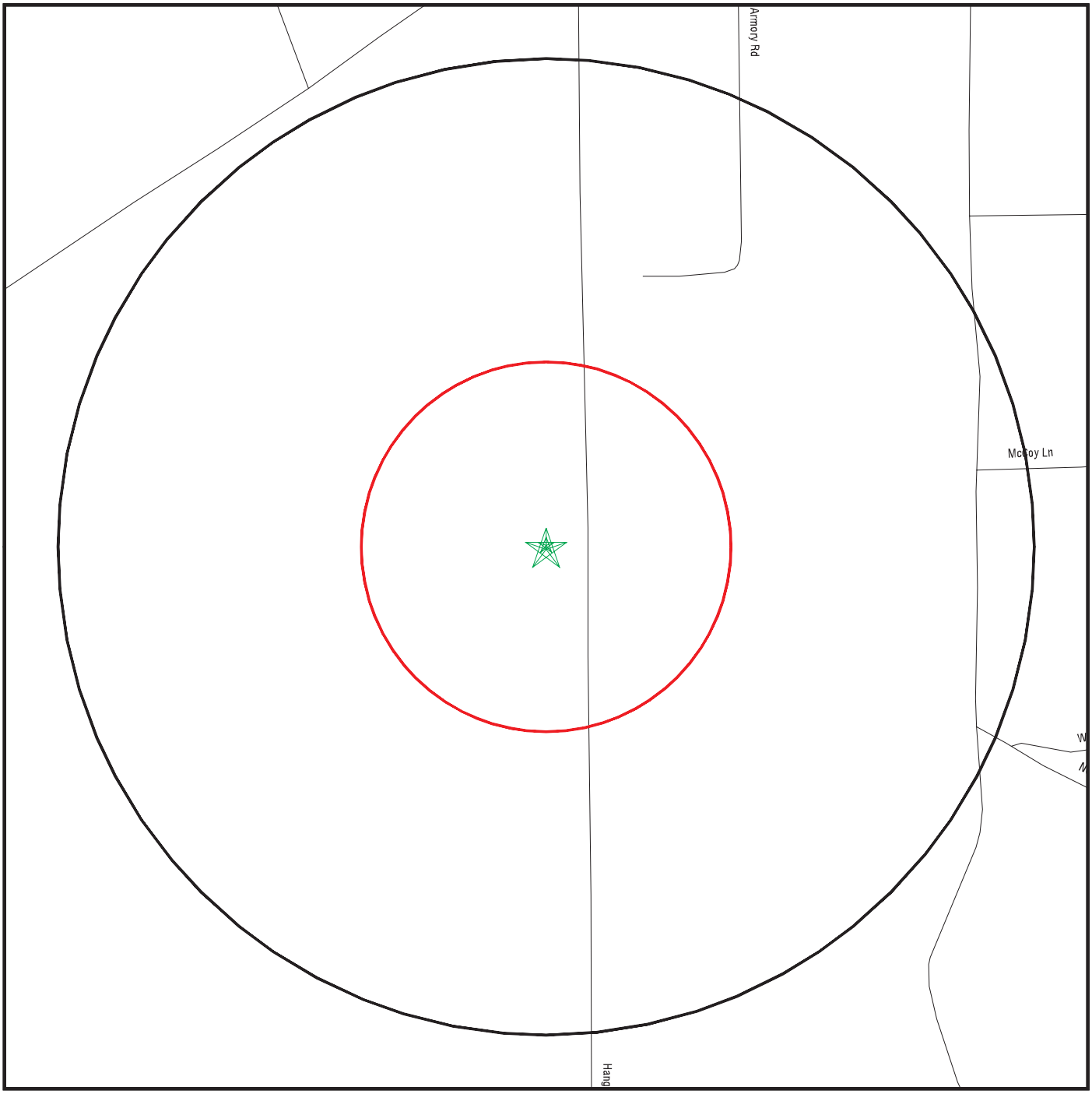
**16-01-08.10:38:33.Fri**

# Environmental FirstSearch

0.25 Mile Radius

Non ASTM Map, Spills, FINDS

HANGER RD JENA, LA 71342




**Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius**

- ★ **Target Property (Latitude: 31.6702 Longitude: 92.1603)**
- ▲ **Identified Sites**
- **Sensitive Receptors**
- **National Priority List Sites**
- **Indian Reservations BIA**


**EDR Reference Code (EDR internal use only): 4508333.1s**

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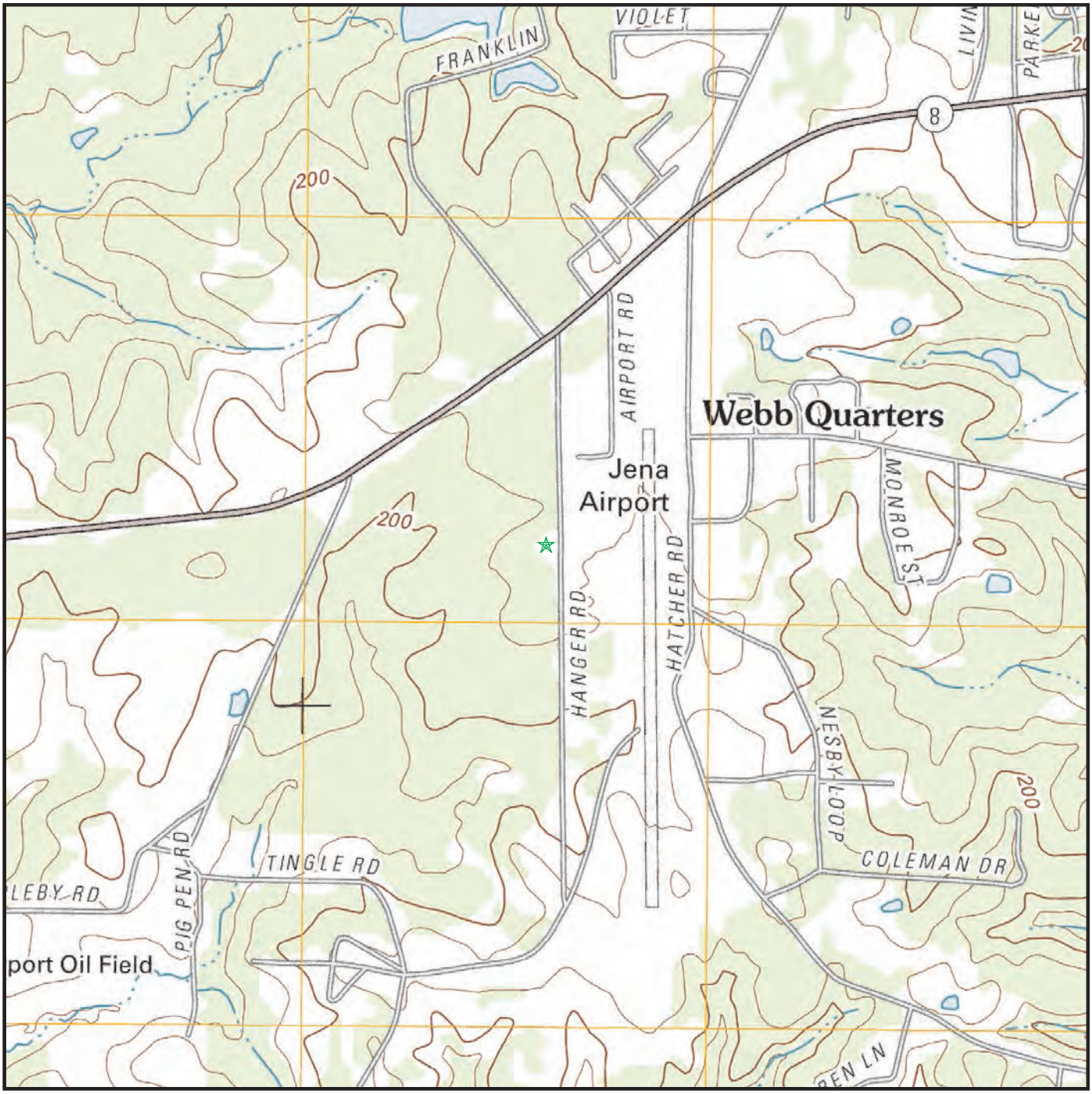
**16-01-08.10:38:45.Fri**

# Site location Map

Topo: 0.75 Mile Radius

HANGER RD JENA, LA 71342




Map Image Position: TP
Map Reference Code & Name: 5636703 Jena West
Map State(s): LA
Version Date: 2012

## 10.6 Interview Documentation

Mr. Murphy McMillin
Responses recorded by Glen Miley
via telephone
January 27, 2015

## User Questionnaire

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001, the User must provide the following information (if available) to the Environmental Professional. Failure to provide this information could result in a determination that all appropriate inquiry is not complete.

1. **Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).**
Are you aware of any environmental cleanup liens against the property?

NO

2. **Activity and land use limitations (AUL) that are in place on the site or that have been filed or recorded in the registry (40 CFR 312.26).**
Are you aware of any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry?

NO

3. **Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).**
As the User of this ESA do you have any specialized knowledge or experience related to the property or near-by properties? For example, are you involved in the same line of business as the current or former occupants so that you would have specialized knowledge of the chemicals and processes used by that type of business?

NO

4. **Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29).**
Does the purchase price being paid for the property reasonably reflect the fair market value? If you conclude that there is a difference, have you considered whether the lower price is because contamination is known or believed to be present?

Yes

5. **Commonly known or reasonable ascertainable information about the property (40 CFR 312.30).**
Are you aware of commonly known or reasonably ascertainable information about the property that would help the Environmental Professional to identify conditions indicative of releases or threatened releases? For example, as User:
   a. Do you know the past uses of the property? Yes Timber
   b. Do you know of specific chemicals that are present or once were present at the property?
   NO
   c. Do you know of spills or other chemical releases that have taken place at the property?
   NO
   d. Do you know of any environmental cleanups that have taken place at the property?
   NO

6. **The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31)**
As the User of this ESA, based on you knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination?

NO



User Initial_____

## 10.7 Special Contractual Conditions

## 10.8 Qualifications of the Environmental Professional

# *Curriculum Vitae*


**Glen Adams Miley**
831 Bay Cliffs Road
Gulf Breeze, Florida 32561
(850) 221-9415


**BIRTHDATE:** October 28, 1968
**BIRTHPLACE:** Mobile, Alabama

**EDUCATION:**

Master of Science, College of Arts and Sciences,
The University of South Alabama, May 1996.
Thesis: Patterns of sulfate reduction in the sediments of a *Juncus roemerianus* marsh.
GPA: 3.8 (4.0 scale)

Bachelor of Science, College of Arts and Sciences,
The University of Alabama, May 1993.
Major: Biology
Member Beta Beta Beta: national biology honor society

**ADDITIONAL TRAINING:**

1996 Bishop State Community College: Introduction to Geographic Information Systems using Arc View® 2.1
1997 Florida Association of Environmental Soil Scientists: Identification of Hydric Soils of Florida
1997 Hillsborough Community College: Inter-Agency Basic Prescribed Fire Training
1998 Conference: Florida Land Acquisition and Management - Palm Coast, Florida.
1999 Conference: Second Annual National Wetland Mitigation Banking Conference Atlanta, Georgia.
2000 Florida Association of Environmental Soil Scientists: Identification of Hydric Soils of Florida
2001 Hillsborough Community College: Techniques for Large Scale Ecological Restoration
2002 The Seminar Group: Southeast Wetlands and Water Law
2002 University of Florida: Forestry and Natural Resources Field Day
2003 ASTM Technical Training: Environmental Site Assessments for Commercial Real Estate
2003 US Fish and Wildlife Service: Property Record Analysis training
2004 Conference: Seventh Annual National Wetland Mitigation Banking Conference – New Orleans, LA.
2007 ASTM Technical Training: Environmental Site Assessments for Commercial Real Estate-Phase I & II
2008 University of Florida: Introduction to Stream Restoration Using Natural Channel Design Techniques
2009 Weeks Bay Foundation: Submerged Aquatic Vegetation Workshop
2009 Society of Ecological Restoration: Ecological Restoration of Coastal Habitats
2010 North Carolina State University: Advanced Problems in Hydric Soil Identification
2010 Gulf of Mexico Alliance: Techniques for Creating Living Shorelines
2010 Florida Fish & Wildlife Conservation Commission: Wildlife Observer Training

**ADDITIONAL TRAINING:**

2010 Dr. Robert Mohlenbrock: Plant Identification in Wetland and Transitional Habitats of the Mississippi Gulf Coast
2010 Gulf of Mexico Alliance: "Get the Grant!" Funding your coastal Community Resiliency, Green Infrastructure or Coastal Restoration Project"
2013 Dr. Andre Clewell: Restoration of Coastal Ecosystems
2014 Longleaf Medical Training: Wilderness First Aid

**EMPLOYMENT:**

Biome Consulting Group: December 2014 – Present

**Principal Ecological Consultant** As a founding principal and managing partner of the firm, this position requires the highest level of responsibility and client accountability in the performance of ecological and environmental regulatory compliance consulting services. The scope of these services includes a wide variety of applied ecological studies, ecological restoration, environmental site assessments, land use planning consulting, and environmental permitting.

Edmisten& Associates, Ecological Consultants: March 1997 – December 2014

**Certified Professional Wetland Scientist** Founding partner of the firm, this position included pioneering work in environmental regulatory compliance consulting including: implementing the first mitigation bank in Northwest Florida; first successful intra-dunal swale restoration on Santa Rosa Island; first Section 10 and Section 7 permits for the Perdido Key Beach Mouse; along with hundreds of individual permits and thousands of site surveys.

TRS Staffing Solutions, Inc.: July 2010 – September 2010

**Wildlife Observer** A constituent of the response to the Deepwater Horizon incident. Responsibilities include observing spill clean-up activities to document impact to protected natural resources and compliance with established Best Management Practices.

Volkert Environmental Group, Inc.: March 1996 – March 1997

**Environmental Scientist** Responsibilities included all aspects related to project development and environmental studies including conceptual design, data collection and analysis, and preparation of technical reports. Environmental studies performed by Mr. Miley include: general environmental studies (e.g. NEPA Environmental Assessments, Phase I Environmental Site Assessments), habitat identification studies (e.g. wetland delineation, submerged aquatic vegetation studies, threatened and endangered species studies, oyster reef studies), and permitting services (e.g. NPDES storm water permits, wetland dredge and fill permits, Alabama coastal zone permits).

The Marine Environmental Sciences Consortium, 1993 –1996

**Biogeochemist**. Primary investigator of the biogeochemistry of sulfur and iron in marine intertidal sediments. This work involved much quantitative analysis and the use of several analytical instruments including: gas chromatograph, high performance liquid chromatograph, and spectrophotometer.

**Wetlands Ecologist**. Assistant to the primary investigator in the development and maintenance of a wetlands functional assessment program. The project involved monitoring and analyses of several biological and physical parameters of a man-made and reference salt marshes.

The University of Alabama Department of Biology, 1990 - 1992

**Limnology Laboratory Technician**. Responsible for maintenance of hydroponic macrophyte cultures, performance of various experiments, collecting and compiling data, and general laboratory maintenance.

**Entomology Laboratory Technician**. Responsible for collecting and sorting benthic faunal samples.

The United States Army, 1987 – 1990

**Musician**. Enlisted rank of Specialist, was a member of 4th Army Band at Fort Sheridan, Illinois and the 98th Army Band at Fort Rucker, Alabama. Twice decorated with the Army Achievement Medal for excellence in the performance of duties and demonstration of exceptional leadership. During basic training Mr. Miley was a platoon leader and was selected and decorated as "Soldier of the Cycle" for exceptional leadership.

**PUBLICATIONS:**

Regulatory Guidance Following Landmark Court Case May Affect Federal Wetland Jurisdiction. *Cornerstone*, Nicholson Publishing, July 2007: 11.

Patterns of Sulfate Reduction in the sediments of a *Juncus roemerianus* marsh, University of South Alabama, June 1996.

Miley, G.M. & R.P. Kiene (2004) Sulfate Reduction and Porewater Chemistry in a Gulf Coast *Juncus roemerianus* (Needlerush) Marsh. *Estuaries* 27(3):472-481.

**LECTURES:**

Aspects of wetland biogeochemistry in the northern Gulf of Mexico, Wetland Biogeochemistry Institute annual meeting, New Orleans, Louisiana March, 1996.

Wetland jurisdictional determination and permitting in Northwest Florida, South Walton Area Realtors Association, Destin Florida, 2003.

**PROFESSIONAL AFFILIATION:**

Society of Wetland Scientists
Society for Ecological Restoration
Florida Association of Environmental Soil Scientists

**PROFESSIONAL CERTIFICATION:**

Professional Wetland Scientist (PWS #0001240) – This certification is awarded by the Society of Wetland Scientists based on a peer review of the applicant's education, experience, and contribution to wetland science.

Certified Prescribed Burn Manager – This certification is awarded by the Florida Department of Agriculture to applicants qualified to utilize prescribed fire in the state of Florida.

Deepwater Horizon Incident- Wildlife Observer.

**ADDITIONAL DATA:**

Mr. Miley is a certified and experienced SCUBA diver and is certified in CPR.