

**PHASE I ENVIRONMENTAL SITE ASSESSMENT  
CELIA SITE, CAMP ROAD  
NORTHERN ESCAMBIA COUNTY, FLORIDA**

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## 1.0 SUMMARY

Environmental Consulting & Technology (ECT) has conducted a phase I environmental site assessment (ESA) of the property known as the Celia site, located along Camp Road in northern Escambia County, Florida, 32535 (subject property or subject site) in conformance with the scope and limitations of ASTM Practice E 1527-05 for Phase I ESAs. The subject property is approximately 1,640 acres in size located in Sections 19, 20, 28, 29, 30, and 32 of Township 5 north, Range 31 west. The subject property is owned by RMS Timberlands, LLC (RMS) and consists of planted pines in various stages of growth. Numerous hunting stands and feed plots are located throughout the subject property. The site vicinity consists of a mix of agricultural, residential, and recreational (hunting and camping) uses and undeveloped land. A closed landfill facility is located on the northern adjacent property.

Mitchell Creek traverses the property from northwest to southeast. Numerous branches of Mitchell Creek, along with gullies and ravines, are located throughout the property. Cox Road defines portions of the southeastern boundary of the site. Camp Road traverses the northern portion of the site. Pine Barren Road is located along the western adjacent parcels and Old Bratt Road is located along the northern adjacent parcels. An underground petroleum pipeline traverses the southern portion of the subject site. Numerous unimproved, unpaved roadways traverse the subject property, providing access to hunting stands and feed plots.

The Camp Five Landfill and Escambia County Road Department facility and borrow pit are located on the northern adjacent property, along Camp Road. Both of these facilities are listed on the environmental databases. With the exception of these two northern adjacent facilities, none of the facilities listed on the environmental databases are considered likely to pose a significant threat to the environmental quality of the subject property. The limits of buried waste associated with the northern adjacent former landfill extend onto the northern portion of the subject property.

An oil and gas production well and a salt water disposal/injection well were previously located in the southeastern portion of the subject property. These wells, in use from 1986 to 1991, are not considered likely to pose a significant threat to the environmental quality of the subject property based on information obtained from regulatory personnel.

ECT has performed a phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-05. Any exceptions to, or deletions from, this practice are described in Section 11 of this report.

The northern adjacent Camp Five Landfill is a recognized environmental condition (REC) due to the extent of buried solid waste extending onto the subject property, documented ground water impacts extending onto the subject property, ground water

flow direction (the subject site is downgradient of the landfill), and documented surface water impacts potentially a result of landfill leachate.

The northern adjacent Escambia County Road Department facility is a REC based on a documented release, the unknown extent of impacts, and the upgradient direction of this facility from the subject property.

The presence of the underground petroleum pipeline on the southern portion of the subject property is considered a *de minimis* condition. There is no record of any releases or discharges associated with this pipeline.

Based on the results of the phase I ESA investigation, phase II ESA activities are recommended in the northern portion of the subject property in order to assess the extent of impacts from the northern adjacent landfill and the Escambia County Road Department facility.

## 2.0 INTRODUCTION

ECT has conducted a phase I ESA of the property located along Camp Road in northern Escambia County, Florida. The subject property is approximately 1,640 acres in size, located in Sections 19, 20, 28, 29, 30, and 32 of Township 5 north, Range 31 west. The subject property is owned by RMS and consists of planted pines in various stages of growth. The site vicinity consists of a mix of agricultural, residential, and recreational (hunting and camping) uses and undeveloped land. A closed landfill facility is located on the northern adjacent property.

Mitchell Creek traverses the property from northwest to southeast. Numerous branches of Mitchell Creek, along with gullies and ravines, are located throughout the property. Cox Road defines portions of the southeastern boundary of the site and Camp Road traverses the northwestern portion of the site. Pine Barren Road is located along the western adjacent parcels and Old Bratt Road is located along the northern adjacent parcels. An underground petroleum pipeline traverses the southern portion of the subject site. Numerous unimproved, unpaved roadways traverse the subject property providing access to hunting stands and feed plots. A site vicinity map is included as Figure 1.

### 2.1 Purpose

The Client requested that ECT conduct a phase I ESA of the subject site. The objective of the phase I ESA was to identify RECs in connection with the property, to the extent feasible pursuant to the processes prescribed in the ASTM E-1527-05 guidelines. The term "*REC*" as defined by ASTM is the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or the material threat of a release of any hazardous

substances or petroleum products into structures on the property or into the ground, ground water, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that generally do not present a material risk of harm to public 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.

This phase I ESA includes information gathered from federal, state, and local agencies; personal interviews with people familiar with the subject property and surrounding properties; and a site visit conducted by ECT representatives. The report is intended to meet the due diligence requirements of ASTM E 1527-05.

## 2.2 Detailed Scope of Services

The phase I ESA conducted by ECT included, but was not limited to, the following services:

- A site visit of the subject property to look for evidence of the release(s) of hazardous materials and petroleum products and to assess the potential for onsite releases of hazardous materials and petroleum products;
- An aerial survey of the subject property, adjacent properties, and site vicinity;
- Drive-by observations of adjacent properties and the site vicinity;
- Interviews with individuals familiar with the subject site, as available;
- Review of regulatory and local agency files, as necessary;
- Review of historical documents, as available; and
- Preparation of a report presenting our findings including a summary of conclusions and recommendations.

## 2.3 Significant Assumptions

The purpose of this phase I ESA is to provide appropriate inquiry into the previous use of the subject property consistent with good commercial and customary practice in an effort to minimize liability. ECT assumes that the information provided by Mr. Tom Cathey, representative of RMS, current owner of the majority of the subject property; the Client; the regulatory database electronic search report provider; and the regulatory agencies is true and reliable.

## 2.4 Limitations and Exceptions

The opinions and recommendations presented in this report are based upon the scope of services, information obtained through the performance of the services, and the



schedule as agreed upon by ECT and the party for whom this report was originally prepared. This report is an instrument of professional service and was prepared in accordance with the generally accepted standards and level of skill and care under similar conditions and circumstances established by the environmental consulting industry. No representation, warranty, or guarantee, expressed or implied, is intended or given. To the extent that ECT relied upon any information prepared by other parties not under contract to ECT, ECT makes no representation as to the accuracy or completeness of such information. This report is expressly for the sole and exclusive use of the party for whom this report was originally prepared for a particular purpose. Only the party for whom this report was originally prepared and/or other specifically named parties have the right to make use of and rely upon this report. Reuse of this report or any portion thereof for other than its intended purpose, or if modified, or if used by third parties, shall be at the user's sole risk.

The findings presented in this report apply solely to site conditions existing at the time when ECT's assessment was performed. It must be recognized, however, that an ESA is intended for the purpose of determining the potential for contamination through limited research and investigative activities and in no way represents a conclusive or complete site characterization. Conditions in other parts of the subject site may vary from those at the locations where data were collected. ECT's ability to interpret investigation results is related to the availability of the data and the extent of the investigation activities. As such, 100 percent confidence in ESA conclusions cannot reasonably be achieved.

ECT, therefore, does not provide any guarantees, certifications, or warranties that a property is free from environmental contamination. Furthermore, nothing contained in this document shall relieve any other party of its responsibility to abide by contract documents and applicable laws, codes, regulations, or standards.

## 2.5 Special Terms and Conditions

The scope of work for this phase I ESA did not include testing of electrical equipment for the potential presence of polychlorinated biphenyls (PCBs) or the assessment of natural hazards such as naturally-occurring asbestos or methane gas, assessment of the potential presence of radionuclides, or assessment of non-chemical hazards such as the potential for damage from earthquakes or floods. This phase I ESA also did not include an extensive assessment of the environmental compliance status of the subject property or of the businesses operating onsite, or a health-based risk assessment. No other additional services were included outside the scope of this phase I ESA.

A confidentiality agreement was signed by ECT prior to commencement of the phase I ESA investigative activities.

## 2.6 User Reliance

This phase I ESA was conducted for the use of, and reliance by, RMS Timberlands, Gulf Power, and their affiliates and attorneys and may be relied upon only by these parties. No use of the information contained in this report by others is permissible without receiving prior written authorization to do so from ECT. ECT is not responsible for independent conclusions, opinions, or recommendations made by others or otherwise based on the findings presented in this report.

## 3.0 SITE DESCRIPTION

This section presents a general overview of the subject property, onsite improvements, and surrounding properties.

### 3.1 Location and Legal Description

The subject site is located along Camp Road in northern Escambia County, Florida. The subject property is approximately 1,640 acres in size, located in Sections 19, 20, 28, 29, 30, and 32 of Township 5 north, Range 31 west. The subject property is owned by RMS and consists of planted pines in various stages of growth.

The Escambia County Property Appraiser's Office information identifies the subject property under the following account numbers: 121730000, 121832000, 121849000, 121830000, 121828000, 121738000, and 121851000 (NE corner only). The subject property parcels are owned by RMS Timberlands LLC, 14 E Quintette Road, Cantonment, Florida. A copy of the Escambia County Property Appraiser Office information, along with the subject property legal description, is included as Appendix A.

### 3.2 Site and Vicinity General Characteristics

A site vicinity map is presented as Figure 1. The adjacent properties consist of the following:

**North:** Agricultural lands and the Camp Five Landfill.

**East:** Agricultural, residential, recreational, and undeveloped lands.

**South:** Additional RMS Timberlands property.

**West:** Residential, agricultural, and undeveloped lands.

### **3.3 Current Use of the Property**

The subject property is owned by RMS and consists of planted pines in various stages of growth. Numerous hunting stands and feed plots are located throughout the subject property.

### **3.4 Descriptions of Structures, Roads, and Other Improvements on the Site**

#### **3.4.1 General Description of Structures**

There are no structures located on the subject property.

#### **3.4.2 Roads**

Cox Road defines portions of the southeastern boundary of the site and Camp Road traverses the northwestern portion of the site. Numerous unimproved roadways traverse the subject property providing access to hunting stands and feed plots. Pine Barren Road is located along the western adjacent parcels and Old Bratt Road is located along the northern adjacent parcels. Access to the property is from Camp Road, which can be accessed from Old Bratt Road to the north. Cox Road is accessible via Roach Road to the southeast of the site, which is accessed from Highway 29 to the east.

#### **3.4.3 Potable Water Supply**

There are no structures located on the subject property. According to the Emerald Coast Utilities Authority (ECUA), which provides water and sewer services in Escambia County, the subject property vicinity is outside the service area. According to the Northwest Florida Water Management District (NFWFMD), consumptive use permits for domestic potable wells have been issued to site adjacent residences. Central Water Works, Inc. (Central) services some of the residences in the area. Central indicated that they have a water main along Camp Road, but do not service that particular area. They service portions of Cox Road and portions of Old Bratt Road. According to Central, the residences that are not in their service area have private use potable wells, and some of the residences that are serviced by Central also have private wells, for both potable use and irrigation.

#### **3.4.4 Sewage Disposal System**

There are no structures located on the subject property. According to ECUA, the subject property vicinity is outside the service area. It is likely that the site adjacent residences are connected to septic tanks.

### 3.5 Current Uses of the Adjoining Properties

The Camp Five Landfill and an Escambia County Road Department facility and borrow pit are located on the northern adjacent property, along Camp Road. The remaining surrounding parcels consist of a mix of residential, agricultural, and recreational (camping and hunting) uses and undeveloped land.

## 4.0 USER-PROVIDED INFORMATION

This section identifies information provided by Ms. Ashley Keough, representative of Gulf Power, to ECT. Information provided by Ms. Keough included responses and comments from Mr. Don Scoffield, Mr. Mike Markey, and Ms. Rhonda Martin, representatives of Gulf Power, and by Gulf Power's attorneys.

### 4.1 Title Records

No title records were provided to ECT by the Client or the property owner(s). Historical ownership information was obtained through other readily available sources as discussed in Section 5.4.5.

### 4.2 Environmental Liens or Activity and Use Limitations

Ms. Ashley Keough was asked the following questions as part of the assessment:

- Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?
- Are you aware of any activity or land use limitations, 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 under federal, tribal, state or local law?

Ms. Keough responded that Gulf Power is not aware of any cleanup liens on the RMS Timberlands property at this time. Ms. Keough responded that a title search will be received and approved by the attorneys prior to the purchase of the property. Ms. Keough stated that a portion of the Escambia County Camp Five Landfill may be located on the subject (RMS) property.

### 4.3 Specialized Knowledge

Ms. Keough was asked the following questions as part of the assessment:

- Do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you

would have specialized knowledge of the chemicals and processes used by this type of business?

- 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?
  - b) Do you know of specific chemicals that are present or once were present at the property?
  - c) Do you know of spills or other chemical releases that have taken place at the property?
  - d) Do you know of any environmental cleanups that have taken place at the property?
- Do you know of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?
- Do you know of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?
- Do you know of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?

Ms. Keough stated that Gulf Power is not familiar with the RMS Timberlands timber management practices. Ms. Keough stated that historical usage of the property includes timber management. Although no specific information is known by Gulf Power, there is concern regarding the extent of onsite impact from the adjacent landfill.

#### **4.4 Commonly Known or Reasonably Ascertainable Information**

Ms. Keough was asked the following question as part of the assessment:

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

Ms. Keough indicated that ground water monitoring wells are located on the northwestern portion of the property associated with the adjacent landfill. Ms. Keough stated that Gulf Power is concerned about potential contamination from the adjacent landfill and stated that it appears that a portion of the landfill is located on the subject property.

#### **4.5 Valuation Reduction for Environmental Issues**

No purchasing price information was provided to ECT; however, Ms. Keough stated that Gulf Power believes that the purchase price reflects fair market value. Based on information obtained from the Escambia County Property Appraiser's online database, there do not appear to be any valuation reduction issues.

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

According to the Escambia County Property Appraiser's online database, RMS Timberlands, L.L.C. is the current owner of the subject property. Mr. Tom Cathey was identified as the RMS representative familiar with the subject property.

#### **4.7 Reason for Performing Phase I**

The reason for performing the phase I ESA is to evaluate the presence/absence of RECs in anticipation of a real estate transaction.

#### **4.8 Other**

Copies of the 1995 Camp Five Landfill boundary survey and the 2002 Camp Five Landfill Eco report were provided by the Client to ECT. Parcel information, site maps, and other location information were provided by the Client to ECT. Mr. Tom Cathey, representative of RMS, provided copies of RMS' Wildfire Procedures, Forest Health and Protection Plan, and Spill Response Plan, as discussed in Section 7.1, below.

### **5.0 RECORDS REVIEW**

The following section presents the results of a review of regulatory agency file information and ECT's historical records review, including aerial photographs, topographic maps, Sanborn fire insurance maps, and city directories pertaining to the subject property, adjacent properties, and proximate properties.

#### **5.1 Standard Environmental Record Sources**

Regulatory agency database information was obtained from FirstSearch Technology Corporation (FirstSearch), which maps and lists properties in federal and state environmental databases with existing conditions or status that may have the potential to affect the subject site. The report is provided as Appendix B.

### **5.1.1 Federal Environmental Record Sources**

The following federal databases were reviewed in accordance with the ASTM E 1527-05 requirements:

#### **5.1.1.1 National Priorities List (NPL; 1.0 mile)**

The National Priorities List (NPL) is a subset of the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) and identifies over 1,200 sites for priority cleanup under the Superfund program. An NPL site must meet or surpass a predetermined hazard ranking system score, be chosen as a state's top priority site, or meet three specific criteria set jointly by the U.S. Department of Health and Human Services and the U.S. Environmental Protection Agency (EPA). Source: U.S. EPA.

There are no NPL sites listed within 1.0 mile of the subject property.

#### **5.1.1.2 Delisted NPL Site List (NPL; 0.5 mile)**

The Delisted NPL Site List includes properties that have been delisted from the NPL.

There are no delisted NPL sites listed within 0.5 mile of the subject property.

#### **5.1.1.3 Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS; 0.5 mile)**

The CERCLIS database contains data on potentially hazardous waste sites that have been reported to EPA by states, municipalities, private companies, and private persons pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The CERCLIS List includes sites that are either proposed for the NPL or in the screening and assessment phase for possible inclusion on the NPL. Source: U.S. EPA/National Technical Information Service (NTIS).

There are no CERCLIS facilities listed within 0.5 mile of the subject property. There is one non-geocoded CERCLIS facility listed within the zip code search. The listed facility is not located in the vicinity of the subject property.

#### **5.1.1.4 CERCLIS-No Further Remedial Action Planned (CERCLIS-NFRAP; 0.5 mile)**

The CERCLIS-NFRAP database contains data on sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. Source: U.S. EPA/NTIS.

There are no CERCLIS-NFRAP listed properties within 0.5-mile of the subject property.

#### **5.1.1.5 Corrective Action Report (CORRACTS; 1.0 mile)**

The CORRACTS database identifies hazardous waste handlers with Resource Conservation and Recovery Act (RCRA) corrective action activity. Source: U.S. EPA.

There are no CORRACTS listed facilities within a 1.0-mile radius of the subject property.

#### **5.1.1.6 Resource Conservation and Recovery Act (RCRA) Treatment, Storage, and Disposal (TSD) Facilities (0.5 mile)**

The RCRA TSD Facilities database includes selected information on facilities that generate, transport, store, treat and/or dispose of hazardous waste, as defined by RCRA.

There are no listed TSD properties within 0.5 mile of the subject property.

#### **5.1.1.7 RCRA Generators Lists (Site and Adjoining Properties)**

RCRA large-quantity generators (LQG) are those facilities that generate at least 1,000 kilograms per month (kg/month) of non-acutely hazardous waste or meet other applicable RCRA requirements. RCRIS small-quantity generators (SQG) generate less than 1,000 kg/month of non-acutely hazardous waste or meet other applicable RCRA requirements.

There are no RCRA-Generator facilities listed within 0.25 mile of the subject site.

#### **5.1.1.8 Federal Institutional Control/Engineering Control Registries (Site only)**

Federal institutional control and engineering control registries were requested in the database search.

The subject property is not identified on either registry.

#### **5.1.1.9 Emergency Response Notification System (ERNS; Site Only)**

ERNS is a national database that records and stores information on reported releases of oil and hazardous substances. The database contains information on spill reports made to federal authorities including EPA, the U.S. Coast Guard, the National Response Center, and the Department of Transportation.

The subject property is not listed on the ERNS database.



### 5.1.2 State Environmental Record Sources

The following state databases were reviewed in accordance with the ASTM E 1527-05 requirements:

#### 5.1.2.1 State-Equivalent CERCLIS Hazardous Waste Sites (SHWS; 1.0 mile)

The state Hazardous Waste database lists potential or confirmed hazardous substance release properties.

There are no facilities listed on this database within 1.0 mile of the subject property. There is one State site listed within the zip code search. The listed facility is not located in proximity to the subject property.

#### 5.1.2.2 State-Equivalent SWF/LF, State Landfill (SWIS; 0.5 mile)

This database is an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 2004 criteria for solid waste landfills or disposal sites.

There is one solid waste facility listed within 0.5 mile of the subject property. The **Camp Five Landfill** is located on the northern adjacent property. Files regarding the Camp Five Landfill were reviewed at the Florida Department of Environmental Protection (FDEP) Northwest District Office in Pensacola, Florida. According to information obtained during the file review, the Camp Five Landfill was a Class II landfill closed to incoming waste on June 30, 1988. The landfill is currently capped. Long-term care, including ongoing ground water monitoring, commenced on February 7, 1995, after approval of the appropriate closure permit. A survey was conducted by FDEP personnel in 1997 to identify the limits of buried waste associated with the former landfill. The survey showed that buried waste, approximately 9 feet (ft) in thickness, extends approximately 10-15 ft southward of the property line, onto the northern portion of the subject property. Appendix C contains figures obtained from various Escambia County submittals to FDEP that show the location and property boundary of the landfill, the extent of buried waste, monitoring well locations, and ground water flow direction.

Ground water monitoring has shown that iron is present in monitoring wells downgradient of the landfill at concentrations that exceed the applicable standards (secondary drinking water standards) and that have been consistently significantly above background levels since 1992. Observed pH levels have also been periodically in excess of the applicable limits. Additional contaminants have been identified in the downgradient wells including petroleum constituents and metals. With the exception of iron, all of the observed contaminant concentrations have historically remained below the applicable cleanup target levels. A copy of the most recent ground water sampling results (Fall 2008) is included in Appendix C. Ground water flow has been in a

consistently southeasterly direction, towards the subject property. According to FDEP, the facility is exempt from being required to meet the secondary standards as long as there is no impact to public health, private water supply, or the environment.

In a letter dated October 13, 2000, FDEP requested that the County conduct an evaluation of potential impacts to private water supplies and/or surface water bodies in order to determine whether ground water remediation would be required. The County conducted a potable well survey that determined that no wells were located within one mile downgradient of the landfill. The FDEP subsequently conducted a surface water study (BioRecon) that concluded that the Camp Five Branch of Mitchell Creek, which flows to the Escambia River, Pensacola Bay, and ultimately, to the Gulf of Mexico, did not meet the Class III State Water Quality Standards pursuant to Chapter 62-302 of the Florida Administrative Code for recreation and propagation and maintenance of a healthy, well-balanced population of fish and wildlife. The study showed that an iron/sulfur bacteria bloom and organic deposition were present at the site, which smothered the wildlife habitat, impairing the stream's fish and wildlife nursery function. The report concludes that leachate effects from the landfill were negatively impacting the downgradient surface water and that isolating the landfill leachate onsite would prevent contaminants from migrating to surface waters through natural springs at the site. A copy of the report is included in Appendix C.

The FDEP subsequently requested that the County conduct additional monitoring to determine the extent of the landfill's impacts on downgradient surface waters. The County retained GeoSyntec Consultants to conduct an iron assessment and a report was issued to FDEP in October 2006. The assessment included the installation of additional downgradient monitoring wells located on the subject property. The report concluded that the landfill was not the likely source of iron impacts to the vicinity surface waters based on the claim that the FDEP BioRecon report was technically flawed, that iron levels in downgradient wells decreased to near background levels, and the presence of naturally occurring iron in the area soils. Tables from the report, as well as a figure showing monitoring well locations, are included in Appendix C.

FDEP refuted the claims of the iron assessment report and is currently recommending that the Site Investigation Section in Tallahassee conduct an investigation to determine the source of surface water impacts at the site. ECT personnel spoke with Ms. Julie Hardy, FDEP Northwest District site manager, who reviewed the iron assessment report. Ms. Hardy stated that once the source of impacts is determined that remediation of the surface waters (Mitchell Creek and its associated branch) will be required. Ms. Hardy stated that the owner of the property and/or facility responsible for the observed impacts will be the party responsible for all cleanup and associated monitoring costs.

#### ***5.1.2.3 State Leaking Underground Storage Tank Database (LUST; 0.5 mile)***

The LUST database is a list of reported LUST incidents.

There are no LUST facilities listed within 0.5 mile of the subject property. There are 18 non-geocoded LUST facilities listed within the zip code search. One of the non-geocoded facilities is the **Escambia County Road Department** Facility, the northern adjacent property located on Camp Road. According to a review of readily available regulatory information, a 10,000-gallon leaded gasoline UST was closed in place in 1987. Strong petroleum odors were noted in a soil boring installed in the vicinity of the tank. The facility was subsequently admitted to the state funded Early Detection Incentive Petroleum Cleanup Program and was given a site priority score of 10. No additional assessment work was subsequently conducted due to the low site priority score. According to County employees, the tank had been out of service for over 10 years prior to being closed in place. The facility previously had one 564-gallon miscellaneous petroleum product aboveground storage tank (AST), one 2,000-gallon waste oil underground storage tank (UST), one 250-gallon other non-regulated waste AST, one 250-gallon waste oil UST, and one 12,000-gallon vehicular diesel UST that were removed from the site. The facility is currently active with two 250-gallon new/lube oil ASTs and one 12,000-gallon vehicular diesel AST. A compliance inspection conducted in August 2007 indicated that the facility is in compliance.

The remaining listed facilities do not appear to be located in proximity to the subject site.

#### **5.1.2.4 State Registered Underground Storage Tank (UST; Property and Adjoining Properties)**

This database contains listings for current UST sites. There are two facilities listed within 0.25 mile of the subject property. The **Grover Blanton Farm**, at 4500 Pine Barren Road, is listed as being onsite; however, it appears to be actually located on the western adjacent property. According to a review of readily available regulatory information, the facility had one 1,000-gallon vehicular diesel AST that was installed in 1984 and removed in 1997. No violations or releases were ever reported in association with this facility.

The **DO Morgan Farm** facility, at 2850 Breastworks Road, is listed as approximately 0.14 mile to the northwest; however, it appears to be actually located approximately 1.0 mile to the northwest and is therefore not considered likely to pose a significant threat to the environmental quality of the subject property.

There are six non-geocoded facilities listed within the zip code search. The **Escambia County Road Department**, located on the northern adjacent property, is one of these facilities. This facility is also listed on the LUST database discussed above. The remaining facilities are not located in proximity to the subject site.

#### **5.1.2.5 Other Database (OTHER; 0.5 mile)**

The FDEP Sinkholes list is a database of sinkholes from the Florida Geological Survey of Sinkholes. The Drycleaners list is a database of dry cleaning facilities registered with the Department. Data is taken from the Storage Tank and Contamination Monitoring database, the registration repository of dry cleaner facility data. The Cattle Dipping Vat (CDV) list is a database of vats that were filled with an arsenic solution for the control and eradication of the cattle fever tick. Other pesticides such as DDT were also widely used. This is a static list from 1910 through the 1950s.

There are no State OTHER facilities listed within the zip code search. There are a number of known CDVs located in Escambia County. Since a title search was not conducted, a comparison of historical ownership entities to the names on the CDV list could not be made. There is no evidence that the historical land uses of the RMS property included cattle grazing. Cattle and cattle pens were observed on one of the western adjacent residential parcels and old, overgrown cattle pens were observed on one of the eastern adjacent parcels.

#### **5.1.2.6 State Institutional Control/Engineering Control Registries (Site Only)**

This database contains registry entries for institutional and engineering controls.

The subject property is not listed on this database.

#### **5.1.2.7 State Voluntary Cleanup Sites (0.5 mile)**

This database contains listings for current voluntary cleanup sites.

There are no properties listed within 0.5 mile of the subject site.

#### **5.1.2.8 State and Tribal Brownfield Sites (0.5 mile)**

This database contains listings for current Brownfield sites.

There are no Brownfield listings within 0.5 mile of the subject site.

### **5.2 Additional Environmental Record Sources**

Additional database records were provided in the database search report. These are summarized in the database report, presented as Appendix B. The subject property is not identified on any of the additional databases. The **Camp Five Landfill**, located on the northern adjacent property, is listed on the FINDS database. Additionally, the **Escambia County Road Department**, located on the northern adjacent property, is listed on the State Spills database. None of the remaining abutting or vicinity properties is identified on the additional databases.

### 5.3 Physical Setting Source(s)

The U.S. Geological Survey (USGS) 7.5-Minute Series of the Bratt and Century, Florida-Alabama quadrangle maps were reviewed. Cox Road is visible, defining portions of the southeastern property boundary, and Camp Road is visible traversing the subject property. Pine Barren Road is visible along the western adjacent parcels. Mitchell Creek traverses the subject property from northwest to southeast and a pipeline is depicted traversing the southern portion of the subject property. Site topography is highly variable ranging from approximately 150 to 250 ft above mean sea level. Ground water flow is expected to follow surface topography in a generally southeasterly direction, as Mitchell Creek flows toward the Escambia River.

### 5.4 Historical Use Information on the Property

To evaluate historical use of the property, ECT reviewed readily available topographic maps, aerial photographs, street directories, and fire insurance maps.

#### 5.4.1 Topographic Maps

ECT reviewed the USGS 7.5-Minute Series of the Bratt and Century, Florida-Alabama quadrangle maps, dated 1941 and 1978. The 1978 maps were retrieved from ECT files. The 1941 historical topographic map was obtained from FirstSearch and is included with the database report in Appendix B.

In the 1941 topographic map, no structures are depicted on the subject property. Cox Road is visible, defining portions of the southeastern property boundary, and Camp Road is visible traversing the subject property. Pine Barren Road is visible along the western adjacent parcels. Mitchell Creek is visible traversing the property from northwest to southeast. In the 1978 topographic map, no structures are depicted on the subject property. Cox Road is visible, defining portions of the southeastern property boundary, and Camp Road is visible, traversing the subject property. Pine Barren Road is visible along the western adjacent parcels and Old Bratt Road is visible along the northern adjacent parcels. Mitchell Creek traverses the subject property from northwest to southeast and a pipeline is depicted traversing the southern portion of the subject property. A copy of the 1978 topographic map is provided as Figure 1.

#### 5.4.2 Aerial Photographs

Historical aerial photographs were obtained from FirstSearch for the years 1940, 1970 and 1999, from the University of Florida, Publication of Archival Library & Museum Materials (PALMM) database for the years 1951, 1958, and 1965, and from Google Earth for the year 2006. The photographs were reviewed to identify former land uses onsite and in the vicinity of the subject property. The photographs consisted of low-altitude, black-and-white photographs with the exception of the 2006 photograph, which was presented in color. Brief descriptions of the subject property and vicinity, as

observed in the aerial photographs, are presented below. Copies of the historic aerial photographs are included as Appendix D, and the 2006 aerial photograph is presented as Figure 2.

The subject property appears to be primarily undeveloped and wooded with numerous unimproved roadways traversing the site in the 1940 aerial photograph, the earliest available. Mitchell Creek is visible traversing the property from northwest to southeast, along with numerous branches of the Creek. Camp Road is visible traversing the northwestern portion of the subject property and Cox Road is visible defining portions of the southeastern property boundary. Pine Barren Road is visible along the western adjacent properties and Old Bratt Road is visible along the northern adjacent properties.

There do not appear to be any significant discernible differences to the subject property in the 1951 and 1958 aerial photographs.

In the 1965 aerial photograph, coverage is not available for the entire subject property. The majority of the subject property has been cleared of vegetation. Numerous irrigation channels have been created across the site.

In the 1970 aerial photograph, additional irrigation channels and land clearing are evident.

Areas of planted pine are evident in the 1999 aerial photograph. Numerous unimproved roadways are visible traversing the subject property. Feed plot/hunting stand clearings are visible scattered throughout the subject property.

In the 2006 aerial photograph, the subject site appears as it did during the phase I ESA site visit. There appear to be no significant discernible changes to the subject property since the previous aerial photograph. A copy of the 2006 aerial photograph is included as Figure 2.

#### **5.4.3 Street Directories**

ECT requested a street directory search from FirstSearch, which is included with the database report in Appendix B. The search concluded that no city directories were available for the subject property vicinity.

#### **5.4.4 Fire Insurance Maps**

Sanborn fire insurance maps were requested from FirstSearch. According to the report (included in Appendix B), no Sanborn maps are available that provide coverage of the subject property vicinity.

#### 5.4.5 Title Records

A chain-of-title report was not obtained during this investigation. According to a review of readily available information, historic owners of the subject property parcels have included St. Regis Paper Company, Champion International, and International Paper. Escambia County has historically maintained a lease with the owner of the subject property to access the northern portion of the subject property for ground water and surface water monitoring associated with the Camp Five Landfill. The most recent lease expired in August 2007. Based on the historic presence of an oil and gas production well (see Section 6.3.14), it is presumed that oil, gas, and mineral rights leases have also historically been in place on the subject property. Mr. Cathey, of RMS, provided a copy of a lease agreement between International Paper (previous owner of the subject property) and Escambia County for access to the northern portion of the subject property for ground water and surface water monitoring associated with the Camp Five Landfill. According to the agreement, the lease expired in August 2007.

#### 5.5 Historical Use Information on Adjoining Properties

To evaluate the historical use of the adjacent properties, ECT reviewed readily available topographic maps, aerial photographs, street directories, and fire insurance maps.

##### 5.5.1 Topographic Maps

ECT reviewed the USGS 7.5-Minute Series of the Bratt and Century, Florida-Alabama quadrangle maps, dated 1941 and 1978. The 1978 maps were retrieved from ECT files. The 1941 historical topographic map was obtained from FirstSearch and is included with the database report in Appendix B. In the 1941 topographic map, several small (apparent residential) structures are depicted along Cox Road on the eastern adjacent parcels. Two small (apparent residential) structures are depicted on the northern adjacent property, to the east of Camp Road. Multiple small (apparent residential) structures are also depicted along Pine Barren Road on the western adjacent parcels and along Old Bratt Road on the northern adjacent parcels. Cox Road is visible defining portions of the eastern property boundary and Camp Road is visible traversing the subject property. Pine Barren Road is visible along the western adjacent parcels. Mitchell Creek is visible traversing the property from northwest to southeast.

In the 1978 topographic map, additional small (apparent residential) structures are depicted on the western adjacent parcels along Pine Barren Road. Cox Road is visible defining portions of the eastern property boundary and Camp Road is visible traversing the subject property. Pine Barren Road is visible along the western adjacent parcels and Old Bratt Road is visible along the northern adjacent parcels. Mitchell Creek traverses the subject property from northwest to southeast and a pipeline is depicted

traversing the southern portion of the subject property. A copy of the topographic map is provided as Figure 1.

### 5.5.2 Aerial Photographs

Historical aerial photographs were obtained from FirstSearch for the years 1940, 1970 and 1999, from the University of Florida, PALMM database for the years 1951, 1958, and 1965, and from Google Earth for the year 2006. The photographs were reviewed to identify former land uses onsite and in the vicinity of the subject property. The photographs consisted of low-altitude, black-and-white photographs with the exception of the 2006 photograph, which was presented in color. Brief descriptions of the subject property and vicinity, as observed in the aerial photographs, are presented below. Copies of the historic aerial photographs are included as Appendix D, and the 2006 aerial photograph is presented as Figure 2.

The adjacent properties appear to be primarily undeveloped and wooded in the 1940 aerial photograph, the earliest available. Residential structures and agricultural land are visible on the western adjacent, northern adjacent, and eastern adjacent properties. Mitchell Creek is visible traversing the property from northwest to southeast along with numerous branches of the Creek. Camp Road is visible traversing the northwestern portion of the subject property and Cox Road is visible defining portions of the southeastern property boundary. Pine Barren Road is visible along the western adjacent properties and Old Bratt Road is visible along the northern adjacent properties. The Escambia County Road Department facility is visible on the northern adjacent parcel at the southwestern corner of Camp Road and Old Bratt Road.

Additional structures are visible on the Escambia County Road Department facility on the northern adjacent parcel in the 1951 aerial photograph. Additional agricultural and residential development is evident on the western, northern, and eastern adjacent parcels.

There do not appear to be any significant discernible differences to the adjacent properties in the 1958 aerial photograph.

In the 1965 aerial photograph, coverage is not available for all of the adjacent properties. The landfill is visible on the northern adjacent property. The beginnings of the northern adjacent borrow pit are also available and additional structures are visible the Escambia County Road Department facility. Additional agricultural and residential development is evident on the western, northern, and eastern adjacent parcels.

In the 1970 aerial photograph, the western adjacent parcels have been cleared of vegetation for agricultural use and structures including residences and outbuildings have been constructed.

The northern adjacent landfill appears to be closed, capped, and covered with grass in the 1999 aerial photograph. The borrow pit on the northern adjacent property appears



significantly larger and additional structures are visible on the Escambia County Road Department facility. Additional agricultural, residential, and recreational development is visible on the adjacent properties and in the surrounding area.

In the 2006 aerial photograph, the adjacent properties appear as they did during the phase I ESA site visit. There appear to be no significant discernible changes to the adjacent properties since the previous aerial photograph. A copy of the 2006 aerial photograph is included as Figure 2.

### **5.5.3 Street Directories**

ECT requested a street directory search from FirstSearch, which is included with the database report in Appendix B. The search concluded that no city directories were available for the subject property vicinity.

### **5.5.4 Fire Insurance Maps**

Sanborn fire insurance maps were requested from FirstSearch. According to the report (included in Appendix B), no Sanborn maps are available that provide coverage of the subject property vicinity.

## **6.0 SITE RECONNAISSANCE**

On November 19, 2008, Ms. Katy Kitanovski, a representative of ECT, performed an assessment of the subject property to observe general site conditions and indications of the possible release(s) of chemicals to the subsurface. A walkover and vehicular site inspection was conducted to identify visible evidence of RECs. An aerial survey, using a fixed wing aircraft, was conducted on November 20, 2008. Ms. Ashley Keough, representative of the Client, accompanied ECT personnel during the vehicular and pedestrian portion of the site visit. Photographs taken during ECT's site inspection are provided in Appendix E. Resumes for ECT personnel are provided in Appendix F.

### **6.1 Methodology and Limiting Conditions**

ECT was provided full access to the subject property. The methodology for the site visit included observing the exterior portions of the subject portion of the subject property.

## **6.2 General Site Setting**

### **6.2.1 Current Use(s) of the Property**

The subject property is owned by RMS Timberlands, LLC and consists of planted pines in various stages of growth. Numerous hunting stands and feed plots are located through the site.

### **6.2.2 Past Use(s) of the Property**

The subject property has been primarily undeveloped historically. Camp Road, Cox Road, Pine Barren Road, and Old Bratt Road were visible in the 1940 aerial photograph. The majority of the subject site was cleared of vegetation in the 1960s and irrigation channels were created. Planted pine was first visible in the 1999 aerial photograph.

### **6.2.3 Current Uses of Adjoining Properties**

The Camp Five Landfill and an Escambia County Road Department facility and borrow pit are located on the northern adjacent property along Camp Road. The remaining surrounding parcels consist of a mix of residential, agricultural, recreational (camping and hunting) uses and undeveloped land.

### **6.2.4 Past Uses of Adjoining Properties**

Based on a review of aerial photographs, the adjacent properties were residentially and agriculturally developed as early as 1940. The Escambia County Road Department facility was visible on the 1940 aerial photograph, the earliest available. The northern adjacent landfill and borrow pit were first visible on the 1965 aerial photograph. By the 1999 aerial photograph, the landfill was closed, capped, and covered with grass, and the borrow pit was much larger. Agricultural, residential, and recreational development was evident on the northern, western, and eastern adjacent parcels in each of the aerial photographs.

### **6.2.5 Current or Past Uses in the Surrounding Area**

The site vicinity consists of a mix of residential, agricultural, recreational (camping and hunting) uses and undeveloped land.

### **6.2.6 Geologic, Hydrogeologic, Hydrologic, and Topographic Conditions**

According to the U.S. Department of Agriculture, Soil Conservation Service, *Soil Survey of Escambia County* (1955), the site is underlain by 22 individual soil types that are categorized into the following three associations: Tifton-Carnegie-Faceville; Lakeland-

Eustis; and, Lakeland, Ruston, and Norfolk-Sunsweet, Carnegie, and Cuthbert. The first two associations are comprised of nearly level to gently sloping soils on uplands, and the third association is comprised of sloping to steep soils on uplands (undifferentiated). The mixed alluvial land, poorly drained soil type defines the area around Mitchell Creek, and its branches and gullies. The majority of the remaining soil types are in the Lakeland, Tifton, Eustis, and Ruston soil series.

According to the Water Resources Atlas of Florida (1998), the property lies in the Escambia River Watershed, in the Western Highlands Physiographic Region. The stratigraphy underlying the surficial sediments in the area of the subject property is sand, clay, and limestone sequences ranging from Miocene to Eocene Age.

The Surficial deposits consist of the Citronelle Pliocene-Pleistocene Terrace sediments and the Miccosukee Formation. These deposits are approximately 200 to 300-ft thick in the Escambia County area. These sediments form the sand and gravel aquifer, which is a part of the surficial aquifer system. The sand and gravel aquifer is the primary source of potable water in all of Escambia County and most of Santa Rosa County to the east.

Underlying the surficial deposits is the Miocene Age formations including (in descending order): Coarse Clastics, (approximately 100-ft thick), the Upper Pensacola Clay (approximately 500 ft thick), a thin layer of Escambia Sand (less than 50-ft thick), and the Lower Pensacola Clay (approximately 300 ft thick). These Miocene Age formations form the Intermediate Aquifer system in the western panhandle area.

Underlying the Miocene Age deposits is the Oligocene Age Chickasawhay Undifferentiated sediments followed by the Bucatunna Clay. These formations are each approximately 200-ft thick in this area. The Upper Floridan aquifer exists within the limestones of the Chickasawhay Undifferentiated deposits with the Bucatunna Clay serving as a significant confining unit between the Upper and Lower Floridan aquifer.

The Floridan aquifer system is the most productive water-bearing unit in Northwest Florida. This system is primarily composed of limestone and ranges in thickness from 100 to more than 1,000 ft. In many areas of the region, highly mineralized water occurs at the bottom of the aquifer, resulting in a reduced productive or usable thickness.

The Eocene age Ocala Limestone underlies the Miocene Bucatunna Clay confining unit and comprises the Lower Floridan aquifer. The sediments of the Ocala Limestone (dolomite limestone with calcite matrix) form one of the most permeable zones within the aquifer system. The surface and thickness of this formation are highly irregular due to dissolution of the limestone as Karst topography developed.

The Lisbon Formation, underlying the Ocala Limestone, occurs throughout the western panhandle. The carbonate sediments of this formation form the sub-Floridan aquifer system.

## 6.3 Exterior Observations

The following items were looked for, or identification was attempted, as indicated in the ASTM standard.

### 6.3.1 Hazardous Substances and Petroleum Products in Connection with Identified Uses

The presence of hazardous substances or petroleum products in connection with the subject property was investigated. An underground petroleum pipeline traverses the southern portion of the subject property. The length of the pipeline is labeled and vegetation along the pipeline is cleared. No other hazardous substances or petroleum products were observed on the subject property.

### 6.3.2 Storage Tanks

ASTs, USTs or vent pipes, fill pipes, or access ways indicating USTs were looked for during the site visit. No ASTs were observed on the subject property and no evidence of the presence of USTs was observed. Storage tanks are present on the northern adjacent Escambia County Road Department facility.

### 6.3.3 Odors

The subject site was checked for strong, pungent, or noxious odors and their sources during the site visit. No such odors were noted during the site visit.

### 6.3.4 Pools of Liquid

Standing surface water and pools or sumps containing liquids likely to contain hazardous substances or petroleum products were looked for during the site visit. No pools or sumps were observed onsite. Mitchell Creek traverses the subject property from northwest to southeast. Water was observed in the creek at the time of the site visit. The creek's numerous branches and gullies appeared to be dry at the time of the site visit.

### 6.3.5 Drums

Storage drums were looked for during the site visit. Numerous drums and barrels in use as feeders for hunting purposes were observed scattered throughout the subject property. No drums containing hazardous substances or petroleum products were observed.

### **6.3.6 Hazardous Substance and Petroleum Products Containers (Not Necessarily in Connection with Identified Uses)**

Hazardous substance and petroleum products containers were looked for during the site visit. No hazardous substance and petroleum products containers were noted.

### **6.3.7 Unidentified Substance Containers**

Open or damaged containers containing unidentified substances suspected of being hazardous substances or petroleum products were looked for during the site visit. No such containers were observed.

### **6.3.8 PCBs**

Electrical or hydraulic equipment known to contain PCBs or likely to contain PCBs were looked for during the site visit. As indicated in the ASTM standard, fluorescent light ballasts (which may or may not be present onsite) were not evaluated. Several pole-mounted transformers (PMTs) were observed along Cox Road on the southeastern property boundary. The observed PMTs appeared to be in good condition with no evidence of leaks or spills.

### **6.3.9 Pits, Ponds, or Lagoons**

Pits, ponds, or lagoons on the property were looked for during the site visit. Pits, ponds, or lagoons on properties adjoining the property were looked for to the extent they were visually and/or physically observable from the subject site. No pits, ponds, or lagoons were observed onsite, other than those previously mentioned in Section 6.3.4.

### **6.3.10 Stained Soil or Pavement**

Areas of stained soil or pavement were looked for during the site visit. No soil staining was observed on the subject property. Large areas of red soils, including the unpaved Camp Road, were observed, indicating a high iron content.

### **6.3.11 Stressed Vegetation**

Areas of stressed vegetation (from other than insufficient water) were looked for during the site visit. No areas of stressed vegetation were observed. The length of the underground pipeline on the southern portion of the subject property is cleared of vegetation.

### 6.3.12 Solid Waste

Areas that are apparently filled or graded by non-natural causes (or filled by fill of unknown origin) suggesting trash construction debris, demolition debris, or other solid waste disposal, or mounds or depressions suggesting trash or other solid waste disposal were looked for during the site visit. No such areas were observed. The northern adjacent property is a former landfill and the limits of buried waste extend onto the northern portion of the subject property.

### 6.3.13 Wastewater

Wastewater or other liquids (including stormwater) or any discharge into a drain, ditch, underground injection system, or stream on or adjacent to the subject site were looked for during the site visit. Mitchell Creek traverses the subject property from northwest to southeast. Numerous branches of the creek and gullies were observed throughout the site. It is presumed that stormwater drains to the gullies, branches, and Mitchell Creek. No accumulation of wastewater or stormwater was observed during the site visit. Most of the gullies and branches were dry at the time of the site visit. Water was observed in Mitchell Creek.

There was previously a salt water disposal/injection well, associated with oil production, located in the southern portion of the subject property, as discussed in Section 6.3.14, below.

### 6.3.14 Wells

There are no structures onsite. According to ECUA, the subject property vicinity is outside the service area. According to NFWFMD, consumptive use permits for domestic potable wells have been issued to the adjacent residential properties. The NFWFMD also identified one industrial well in the southeastern portion of the site. Central Water Works, Inc. (Central) services some of the residences in the area. Central indicated that they have a water main along Camp Road, but do not service that particular area. They service portions of Cox Road and portions of Old Bratt Road. According to Central, the residences that are not in their service area have private use potable wells, and some of the residences that are serviced by Central also have private wells, for both potable use and irrigation.

According to the FDEP, Oil & Gas Division, the Bluff Springs Oil Field was previously located onsite and on the southern and eastern adjacent parcels and the McDavid Oil Field was previously located to the southeast of the site. The majority of wells in the two oil fields never produced and/or was comprised of dry holes. There was one producing well and one salt water disposal well located on the subject property. These wells were located in the vicinity of the current pipeline, which traverses the southern portion of the subject property. A map showing the location of the wells is included as Appendix G.

ECT personnel contacted Mr. Dave Taylor of the Oil & Gas Division for additional information regarding these two wells. Mr. Taylor stated that the production well was completed in March 1984 and began producing in January 1986 with a production rate of 18,963 barrels per month. Mr. Taylor stated that the well was producing through August 1991 when the production rate was 850 barrels per month. The well was capped and abandoned on November 12, 1991. Mr. Taylor stated that the salt water disposal well was used to inject salt water recovered during oil production back into the ground. Mr. Taylor stated that there was an onsite oil/water separation system that would separate the oil from the salt water for injection. Mr. Taylor stated that the salt water disposal well was completed in February 1986 and plugged on November 12, 1991. Mr. Taylor stated that due to the depth of the production well (16,800 ft), the regulatory requirements, and the plugging parameters, these wells would not likely pose a significant threat to the environmental quality of the subject property.

### **6.3.15 Septic Systems**

There are no structures onsite. According to the ECUA, the subject property vicinity is outside the service area. It is likely that residences on adjacent parcels are connected to individual septic tanks.

### **6.3.16 Other**

A weather tower is proposed for construction by Gulf Power in the northern portion of the subject property, west of Camp Road. The vicinity of the proposed weather tower has been cleared of vegetation.

## **6.4 Interior Observations**

There are no structures located onsite.

## **7.0 INTERVIEWS**

### **7.1 Interviews with Site Contacts**

During the phase I ESA investigations, ECT interviewed Mr. Tom Cathey, representative of RMS, current owner of the majority of the subject property.

Mr. Cathey was asked if he knew whether any of the documents below exist and, if so, whether copies would be provided:

- Environmental site assessment reports;
- Environmental audit reports;

- Environmental permits (for example, solid waste disposal permits, hazardous waste disposal permits, wastewater permits, National Pollutant Discharge Elimination System permits, underground injection permits);
- Registrations for USTs and ASTs;
- Registrations for underground injection systems;
- Material safety data sheets;
- Community right-to-know plan;
- Safety plans; preparedness and prevention plans; spill prevention, countermeasure, and control plans; etc.;
- Reports regarding hydrogeologic conditions on the property or surrounding area;
- Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property;
- Hazardous waste generator notices or reports;
- Risk assessments; or
- Recorded Activity Use Limitations.

Mr. Tom Cathey stated that prior to the purchase of a portion of the subject site from International Paper RMS conducted environmental assessments on over 2.5 million acres of land, including the subject property. Mr. Cathey stated that due to the extensive area only tracts identified by International Paper as having potential concerns were inspected. Mr. Cathey stated that the subject property parcels were not identified as having potential concerns and no environmental issues were identified. Mr. Cathey provided copies of RMS' Wildfire Procedures, Forest Health and Protection Plan, and Spill Response Plan to ECT. Mr. Cathey responded "no" to the availability of all of the remaining above documents. Mr. Cathey also provided a copy of a lease agreement between International Paper (previous owner of the RMS property) and Escambia County for access to the northern portion of the subject property for ground water and surface water monitoring associated with the Camp Five Landfill. According to the agreement, the lease expired in August 2007.

Mr. Cathey was asked to answer the following question as part of the assessment:

- Based on your knowledge and experience related to the property, is there any evidence of aboveground or underground storage tanks onsite?

Mr. Cathey's response was "no" to the above question.

Mr. Cathey stated that the RMS property has historically been under continuous timber management for many years and the previous owners included St. Regis Paper Company, Champion International, and International Paper.



## 7.2 Interviews with Local Government Officials

Various government officials were contacted during this investigation in order to obtain regulatory information regarding facilities listed on the environmental databases, information regarding the former oil and gas production onsite, and information regarding potable water on the subject property and site vicinity. Information obtained through interviews with government officials is discussed throughout this report.

## 8.0 FINDINGS

This section identifies known or suspect RECs, historical RECs, and *de minimis* conditions discovered during the phase I ESA investigations.

### 8.1 Known or Suspect RECs

The northern adjacent Camp Five Landfill is a REC due to the extent of buried solid waste extending onto the subject property, documented ground water impacts extending onto the subject property, ground water flow direction (the subject site is downgradient of the landfill), and documented surface water impacts potentially a result of landfill leachate.

The northern adjacent Escambia County Road Department facility is a REC based on a documented release, the unknown extent of impact, and the upgradient direction of this facility from the subject property.

### 8.2 Historical RECs

No historical RECs were identified as a result of the phase I ESA investigations.

### 8.3 *De Minimis* Conditions

The presence of the underground petroleum pipeline beneath the southern portion of the subject property is considered a *de minimis* condition.

## 9.0 OPINION

This section includes the environmental professional's opinion(s) of the impact on the property of conditions identified in the findings section.

No evidence of the misapplication of chemicals such as herbicides was observed associated with the timber production activities.

The adjacent Camp Five Landfill and Escambia County Road Department facility are RECs due to the presence of documented discharges. The extent of the former landfill includes part of the northern portion of the subject site and both ground water and surface water impacts have been documented onsite, downgradient of the landfill. The extent of the impact attributable to the upgradient Escambia County Road Department facility is unknown.

The former presence of an oil and gas production well and a salt water disposal/injection well onsite and the presence of a buried petroleum pipeline are considered *de minimis* due to the lack of any reported releases or discharges. Further, the former wells, in use from 1986 to 1991, are not considered likely to pose a significant threat to the environmental condition of the subject property based on information obtained from regulatory personnel.

Based on the results of the phase I ESA investigation, phase II ESA activities are recommended in the northern portion of the subject property in order to address impacts from the northern adjacent landfill and the Escambia County Road Department facility.

## 10.0 CONCLUSIONS

ECT has performed a phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-05. Any exceptions to, or deletions from, this practice are described in Section 11 of this report.

The northern adjacent Camp Five Landfill is a REC due to the extent of buried solid waste extending onto the subject property, documented ground water impacts extending onto the subject property, and documented surface water impacts potentially a result of landfill leachate. The northern adjacent Escambia County Road Department facility is a REC, based on a documented release, the unknown extent of impacts, and the upgradient direction of this facility from the subject property.

Based on the results of the phase I ESA investigation, phase II ESA activities are recommended in the northern portion of the subject property in order to address impacts from the northern adjacent landfill and Escambia County Road Department facility.

## 11.0 DEVIATIONS/DATA GAPS

The following deviations from the ASTM practice were identified:

- The recently-enacted All Appropriate Inquiry standard and ASTM practice indicates that the Tribal equivalent of the CERCLIS, SWF/LF, Institutional Control/Engineering Controls, Voluntary Cleanup, LUST, and Brownfield

databases be searched. It is the understanding of ECT that these databases are not available for the State of Florida. Given that all other databases searched did not identify the subject site, the impact of this deviation is considered negligible with regard to identifying RECs.

## 12.0 ADDITIONAL SERVICES

No additional services outside of the scope of work (i.e., asbestos, radon, lead-based paint, lead in drinking water, wetlands, regulatory compliance, cultural and historic resources, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality, and biological agents) were provided during this investigation. A baseline natural resources inventory, a range analysis, and a ranch management plan were performed in conjunction with this phase I ESA investigation and are submitted as separate reports.

### 13.0 REFERENCES

- Escambia County Property Appraisers Website. Property Cards. November 17, 2008 and December 5, 2008. <http://www.escpa.org/>
- FirstSearch Technology Corporation Environmental Database Report, Target Property: Century, Florida, 32535. November 14, 2008.
- FSTC. City Directory Search. Target Property: Century, Florida, 32535. November 14, 2008.
- FSTC. Fire Insurance Map Coverage. Target Property: Century, Florida, 32535. November 14, 2008.
- FSTC. Historic Aerial Photographs. Target Property: Century, Florida, 32535. November 14, 2008.
- Google Earth Images. 2006 Aerial Photograph.
- Northwest Florida Water Management District. Well Data. 2008. <http://www.nwfwmd.state.fl.us/permits/permits-wells.html>
- University of West Florida. Haas Center for Business Research & Economic Development Website. Property Card. November 10, 2008. [http://haasgis.cob.uwf.edu.freeance/Client/PublicAccess1/index.html?appconf ig=Escambia\\_County](http://haasgis.cob.uwf.edu.freeance/Client/PublicAccess1/index.html?appconf ig=Escambia_County)
- U.S. Geological Survey, 7.5-Minute Series Topographic Map, Century, Florida. 1978.
- U.S. Geological Survey, 7.5-Minute Series Topographic Map, Bratt, Florida. 1978.
- U.S. Department of Agriculture, Natural Resource Conservation Service, 1955. Soil Survey of Escambia County, Florida.

#### 14.0 SIGNATURE(S) OF ENVIRONMENTAL PROFESSIONAL(S)

The environmental assessment described herein was conducted by the undersigned employees of ECT. ECT's investigation consisted solely of the activities described in the Introduction of this report, and in accordance with the Terms and Conditions of the Standard Consulting Services Agreement signed prior to initiation of the assessment, as applicable.

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. 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 312.

Report Prepared By:

---

Katy A. Kitanovski  
Senior Associate Scientist

Report Reviewed and Approved By:

---

Darren L. Stowe, CFEA  
Project Manager

## FIGURES

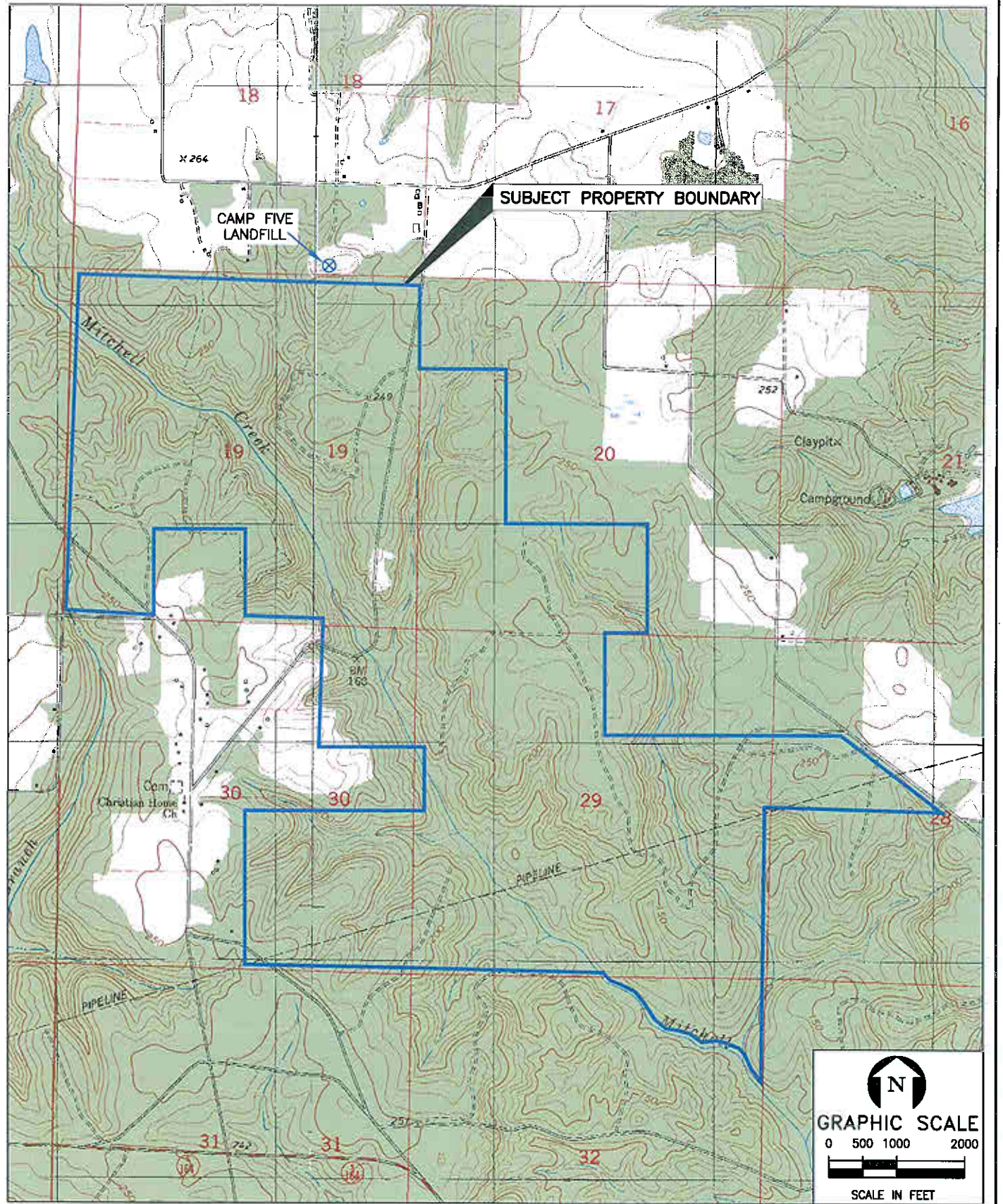


FIGURE 1.  
SITE VICINITY MAP  
CELIA SITE  
ESCAMBIA COUNTY, FLORIDA

Source: ECT, 2009.

**ECT**  
Environmental Consulting & Technology, Inc.

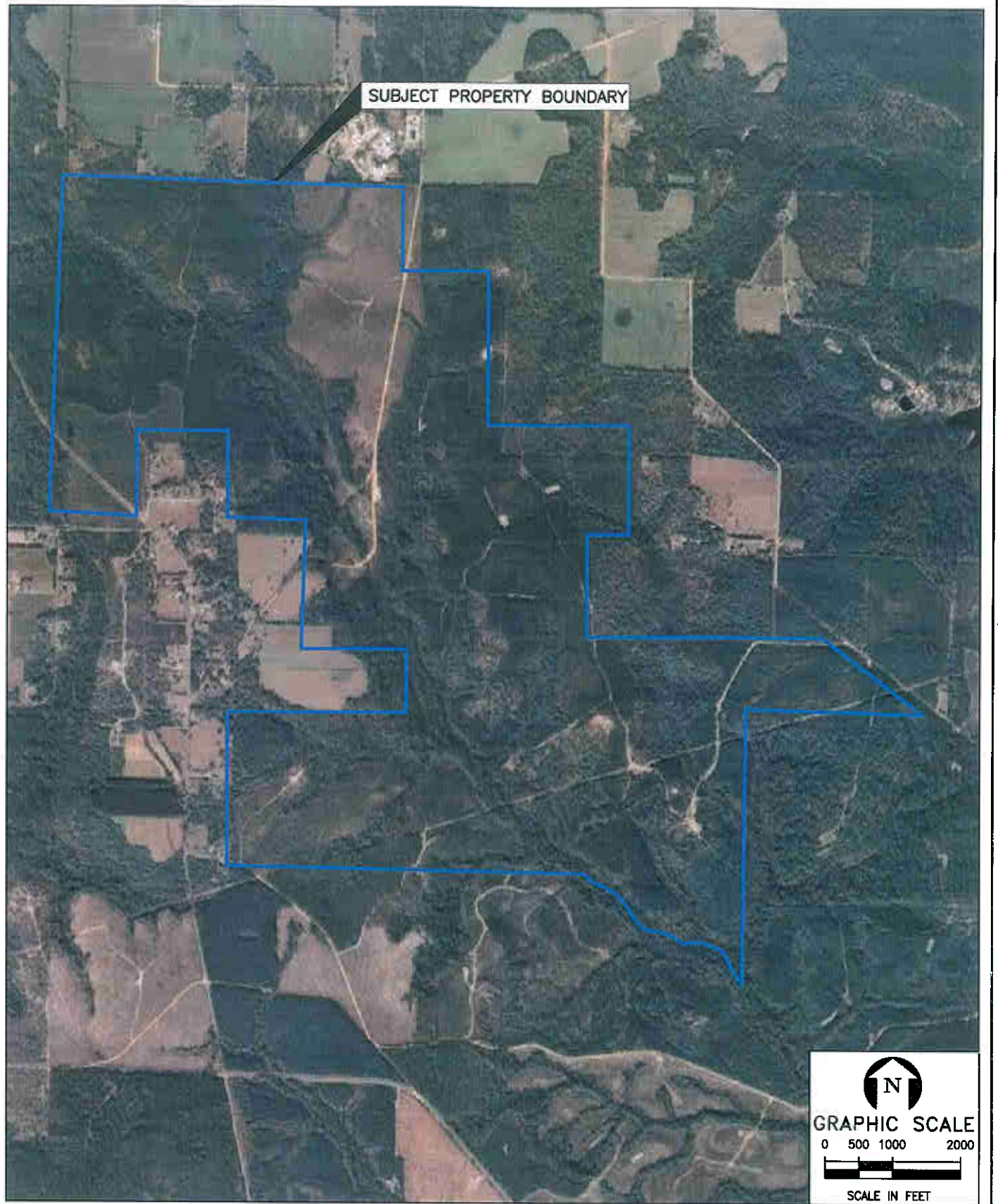


FIGURE 2.  
2006 AERIAL PHOTOGRAPH  
CELIA SITE  
ESCAMBIA COUNTY, FLORIDA

Sources: Google Earth Aerial, 2006; ECT, 2009.

**ECT**

Environmental Consulting & Technology, Inc.



**APPENDIX A**

**ESCAMBIA COUNTY  
PROPERTY APPRAISER'S OFFICE  
INFORMATION**

Source: Escambia County Property Appraiser

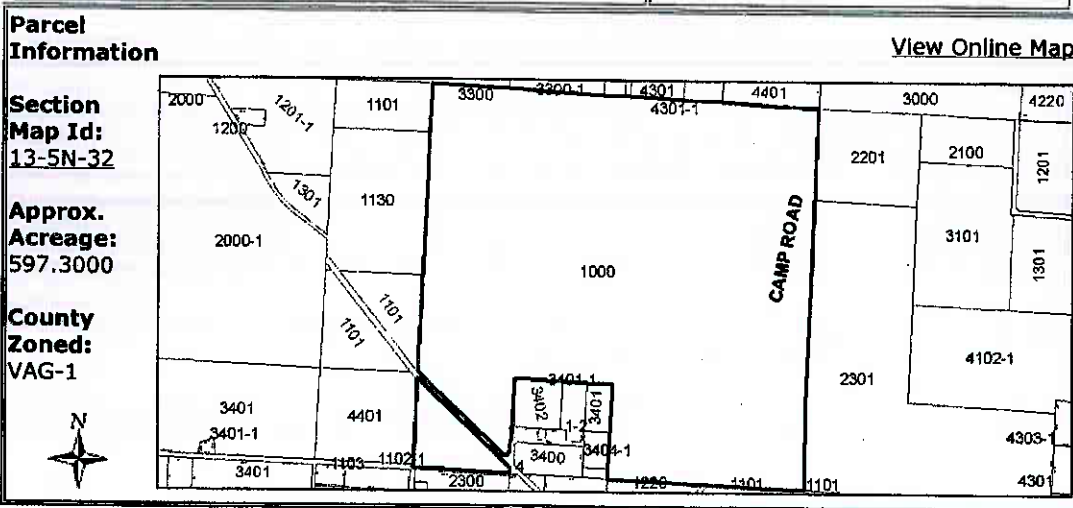
[Restore Full Page Version](#)

General Information	
<b>Reference:</b>	195N311000000000
<b>Account:</b>	121730000
<b>Owners:</b>	RMS TIMBERLANDS LLC
<b>Mail:</b>	14 E QUINTETTE RD CANTONMENT, FL 32533
<b>Situs:</b>	CAMP RD
<b>Use Code:</b>	TIMBER 2
<b>Tax Inquiry:</b>	<a href="#">Open Tax Inquiry Window</a>
Tax Inquiry link courtesy of Janet Holley, Escambia County Tax Collector	

2008 Certified Roll Assessment	
<b>Improvements:</b>	\$0
<b>Land:</b>	\$47,724
<b>Total:</b>	\$47,724
<i>Save Our Homes:</i>	\$0
<a href="#">Disclaimer</a>	
<b>Amendment 1 Calculations</b>	

Sales Data					
Sale Date	Book Page	Value	Type	Official Records (New Window)	
11/2006	6055 0785	\$100	QC	<a href="#">View Instr</a>	
11/2006	6055 0752	\$54,042,600	WD	<a href="#">View Instr</a>	
05/1985	2066 0460	\$100	OT	<a href="#">View Instr</a>	
12/1983	1917 0467	\$100	OT	<a href="#">View Instr</a>	
Official Records Inquiry courtesy of Ernie Lee Magaha, Escambia County Clerk of the Court					

2008 Certified Roll Exemptions	
None	
<b>Legal Description</b>	<input type="text" value="ALL LESS SE1/4 OF SW1/4 OR 6055 P 752/785 LESS OR 815 P 503 COUNTY RD R/W..."/>
<b>Extra Features</b>	None



<b>Buildings</b>
<b>Images</b>

None

The primary use of the assessment data is for the preparation of the current year tax roll. No responsibility or liability is assumed for inaccuracies or errors.

**Source: Escambia County Property Appraiser**


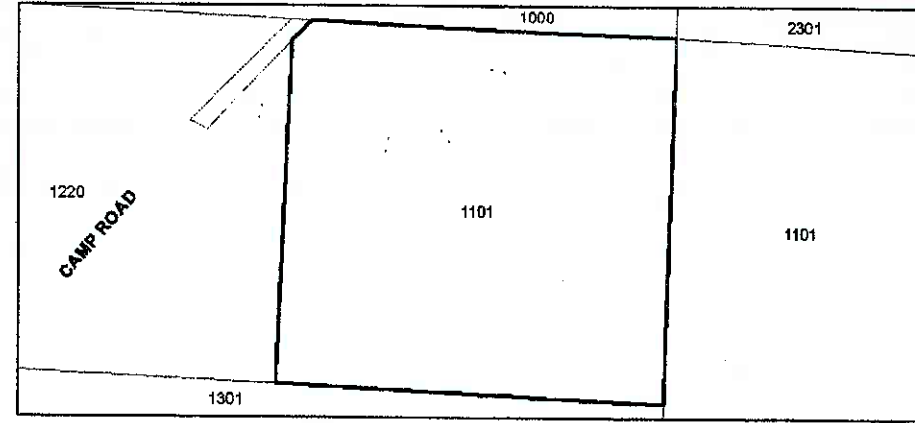
[Restore Full Page Version](#)

General Information	
<b>Reference:</b>	305N311101000000
<b>Account:</b>	121832000
<b>Owners:</b>	RMS TIMBERLANDS LLC
<b>Mail:</b>	14 E QUINTETTE RD CANTONMENT, FL 32533
<b>Situs:</b>	3400 CAMP RD BLK
<b>Use Code:</b>	TIMBER 2
<b>Tax Inquiry:</b>	<a href="#">Open Tax Inquiry Window</a>
Tax Inquiry link courtesy of Janet Holley, Escambia County Tax Collector	

2008 Certified Roll Assessment	
<b>Improvements:</b>	\$0
<b>Land:</b>	\$2,664
<b>Total:</b>	\$2,664
<b>Save Our Homes:</b>	\$0
<a href="#">Disclaimer</a>	
<b>Amendment 1 Calculations</b>	

Sales Data					
Sale Date	Book Page	Value	Type	Official Records (New Window)	
11/2006	6055 0785	\$100	QC	<a href="#">View Instr</a>	
11/2006	6055 0752	\$54,042,600	WD	<a href="#">View Instr</a>	
05/1985	2066 0460	\$100	OT	<a href="#">View Instr</a>	
12/1983	1917 0467	\$100	OT	<a href="#">View Instr</a>	
Official Records Inquiry courtesy of Ernie Lee Magaha, Escambia County Clerk of the Court					

2008 Certified Roll Exemptions	
None	
<b>Legal Description</b>	<input type="text"/>
NE1/4 OF NE1/4 OR 6055 P 752/785 LESS OR 116 P 101 RD R/W LESS OR 5873 P 396 RD R/W...	
<b>Extra Features</b>	<input type="text"/>
None	

Parcel Information	<a href="#">View Online Map</a>
<b>Section Map Id:</b> 19-5N-31  <b>Approx. Acreage:</b> 41.5500  <b>County Zoned:</b> VAG-1  	

<b>Buildings</b>
<b>Images</b>

None

The primary use of the assessment data is for the preparation of the current year tax roll. No responsibility or liability is assumed for inaccuracies or errors.

Source: Escambia County Property Appraiser

[Restore Full Page Version](#)

General Information	
<b>Reference:</b>	305N314101000000
<b>Account:</b>	121849000
<b>Owners:</b>	RMS TIMBERLANDS LLC
<b>Mail:</b>	14 E QUINTETTE RD CANTONMENT, FL 32533
<b>Situs:</b>	VICTOR RD
<b>Use Code:</b>	TIMBER 2
<b>Tax Inquiry:</b>	<a href="#">Open Tax Inquiry Window</a>
Tax Inquiry link courtesy of Janet Holley, Escambia County Tax Collector	

2008 Certified Roll Assessment	
<b>Improvements:</b>	\$0
<b>Land:</b>	\$11,088
<b>Total:</b>	\$11,088
<b>Save Our Homes:</b>	\$0
<a href="#">Disclaimer</a>	

Sales Data					
Sale Date	Book	Page	Value	Type	Official Records (New Window)
11/2006	6055	0785	\$54,042,600	WD	<a href="#">View Instr</a>
11/2006	6055	0752	\$100	QC	<a href="#">View Instr</a>
05/1985	2066	0460	\$100	OT	<a href="#">View Instr</a>
12/1983	1917	0467	\$100	OT	<a href="#">View Instr</a>
Official Records Inquiry courtesy of Ernie Lee Magaha, Escambia County Clerk of the Court					

**Amendment 1 Calculations**

2008 Certified Roll Exemptions
None

Legal Description
SE 1/4 OR 6055 P 752/785 LESS MINERAL RIGHTS

Extra Features
None

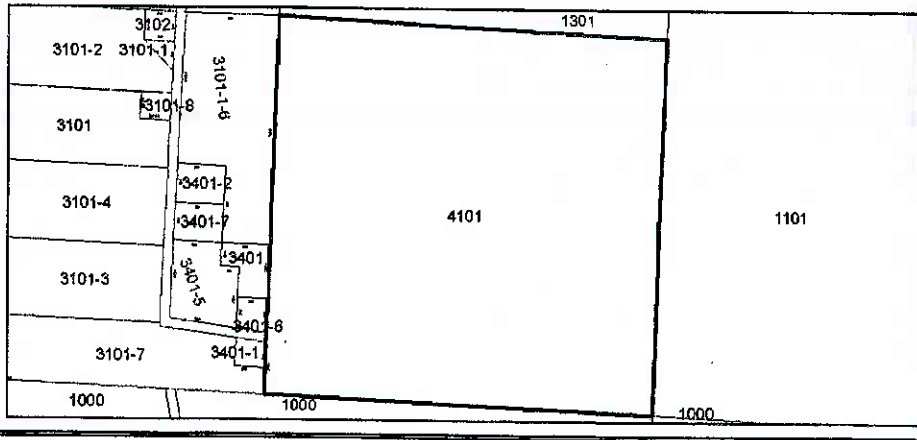
**Parcel Information**

[View Online Map](#)

**Section Map Id:**  
29-5N-31

**Approx. Acreage:**  
161.8200

**County Zoned:**  
VAG-1



<b>Buildings</b>
<b>Images</b>

None

The primary use of the assessment data is for the preparation of the current year tax roll. No responsibility or liability is assumed for inaccuracies or errors.

Source: Escambia County Property Appraiser

[Restore Full Page Version](#)

General Information	
<b>Reference:</b>	295N311101000000
<b>Account:</b>	121830000
<b>Owners:</b>	RMS TIMBERLANDS LLC
<b>Mail:</b>	14 E QUINTETTE RD CANTONMENT, FL 32533
<b>Situs:</b>	
<b>Use Code:</b>	TIMBERLAND, MISC.
<b>Tax Inquiry:</b>	<a href="#">Open Tax Inquiry Window</a>
Tax Inquiry link courtesy of Janet Holley, Escambia County Tax Collector	

2008 Certified Roll Assessment	
<b>Improvements:</b>	\$0
<b>Land:</b>	\$33,880
<b>Total:</b>	\$33,880
<b>Save Our Homes:</b>	\$0
<a href="#">Disclaimer</a>	
<b>Amendment 1 Calculations</b>	

Sales Data					
Sale Date	Book Page	Value	Type	Official Records (New Window)	
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11/2006	6055 0752	\$54,042,600	WD	<a href="#">View Instr</a>	
05/1985	2066 0460	\$100	OT	<a href="#">View Instr</a>	
12/1983	1917 0467	\$100	OT	<a href="#">View Instr</a>	
Official Records Inquiry courtesy of Ernie Lee Magaha, Escambia County Clerk of the Court					


2008 Certified Roll Exemptions
None
Legal Description
ALL LESS N 1/2 OF NE 1/4 OR 6055 P 752/785 LESS MINERAL RIGHTS
Extra Features
None

**Parcel Information**

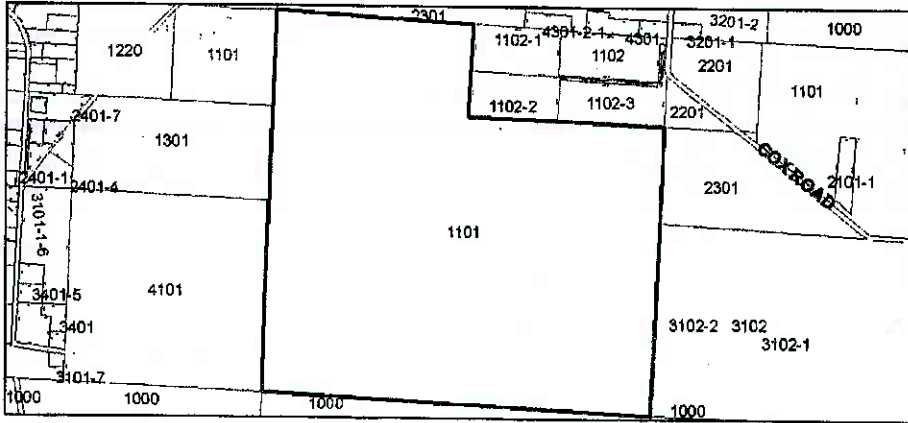
**Section Map Id:**  
33-5N-31

**Approx. Acreage:**  
559.4900

**County Zoned:**  
VAG-1



[View Online Map](#)





<b>Buildings</b>
<b>Images</b>

None

The primary use of the assessment data is for the preparation of the current year tax roll. No responsibility or liability is assumed for inaccuracies or errors.

Source: Escambia County Property Appraiser

[Restore Full Page Version](#)

General Information	
<b>Reference:</b>	285N312301000000
<b>Account:</b>	121828000
<b>Owners:</b>	RMS TIMBERLANDS LLC
<b>Mail:</b>	14 E QUINTETTE RD CANTONMENT, FL 32533
<b>Situs:</b>	COX RD
<b>Use Code:</b>	TIMBER 2
<b>Tax Inquiry:</b>	<a href="#">Open Tax Inquiry Window</a>
Tax Inquiry link courtesy of Janet Holley, Escambia County Tax Collector	

2008 Certified Roll Assessment	
<b>Improvements:</b>	\$0
<b>Land:</b>	\$5,459
<b>Total:</b>	\$5,459
<b>Save Our Homes:</b>	\$0
<a href="#">Disclaimer</a>	

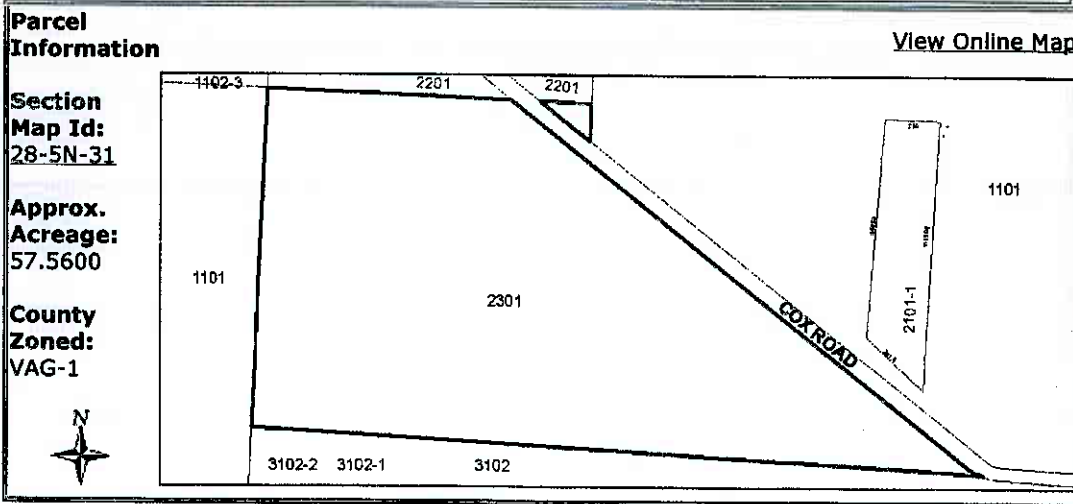
[Amendment 1 Calculations](#)

Sales Data					
Sale Date	Book Page	Value	Type	Official Records (New Window)	
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11/2006	6055 0752	\$54,042,600	WD	<a href="#">View Instr</a>	
05/1985	2066 0460	\$100	OT	<a href="#">View Instr</a>	
12/1983	1917 0467	\$100	OT	<a href="#">View Instr</a>	
Official Records Inquiry courtesy of Ernie Lee Magaha, Escambia County Clerk of the Court					

2008 Certified Roll Exemptions
None

**Legal Description**

Extra Features
None



<b>Buildings</b>
<b>Images</b>

None

The primary use of the assessment data is for the preparation of the current year tax roll. No responsibility or liability is assumed for inaccuracies or errors.

Source: Escambia County Property Appraiser

[Restore Full Page Version](#)

General Information	
<b>Reference:</b>	205N312301000000
<b>Account:</b>	121738000
<b>Owners:</b>	RMS TIMBERLANDS LLC
<b>Mail:</b>	14 E QUINTETTE RD CANTONMENT, FL 32533
<b>Situs:</b>	
<b>Use Code:</b>	TIMBER 2
<b>Tax Inquiry:</b>	<a href="#">Open Tax Inquiry Window</a>
Tax Inquiry link courtesy of Janet Holley, Escambia County Tax Collector	

2008 Certified Roll Assessment	
<b>Improvements:</b>	\$0
<b>Land:</b>	\$17,669
<b>Total:</b>	\$17,669
<i>Save Our Homes:</i>	\$0
<a href="#">Disclaimer</a>	

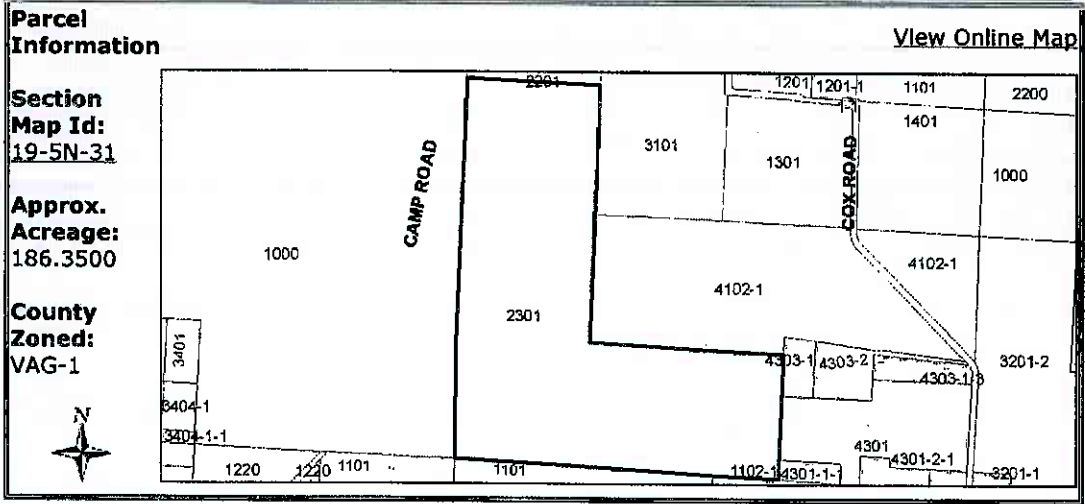
Sales Data					
Sale Date	Book	Page	Value	Type	Official Records (New Window)
11/2006	6055	0785	\$100	QC	<a href="#">View Instr</a>
11/2006	6055	0752	\$54,042,600	WD	<a href="#">View Instr</a>
05/1985	2066	0460	\$100	OT	<a href="#">View Instr</a>
12/1983	1917	0467	\$100	OT	<a href="#">View Instr</a>
Official Records Inquiry courtesy of Ernie Lee Magaha, Escambia County Clerk of the Court					

Amendment 1 Calculations

2008 Certified Roll Exemptions	
None	

Legal Description
SW1/4 OF NW1/4 AND NW1/4 OF SW1/4 AND S1/2 OF SW1/4 AND W1/2 OF SW1/4 OF SE1/4 OR 6055 P 752/785...

Extra Features
None



<b>Buildings</b>
<b>Images</b>

None

The primary use of the assessment data is for the preparation of the current year tax roll. No responsibility or liability is assumed for inaccuracies or errors.

Source: Escambia County Property Appraiser

[Restore Full Page Version](#)

General Information	
<b>Reference:</b>	325N311000000000
<b>Account:</b>	121851000
<b>Owners:</b>	RMS TIMBERLANDS LLC
<b>Mail:</b>	14 E QUINTETTE RD CANTONMENT, FL 32533
<b>Situs:</b>	HWY 164
<b>Use Code:</b>	TIMBER 2
<b>Tax Inquiry:</b>	<a href="#">Open Tax Inquiry Window</a>
Tax Inquiry link courtesy of Janet Holley, Escambia County Tax Collector	

2008 Certified Roll Assessment	
<b>Improvements:</b>	\$0
<b>Land:</b>	\$43,010
<b>Total:</b>	\$43,010
<b>Save Our Homes:</b>	\$0
<a href="#">Disclaimer</a>	

Sales Data					
Sale Date	Book	Page	Value	Type	Official Records (New Window)
11/2006	6055	0785	\$54,042,600	WD	<a href="#">View Instr</a>
11/2006	6055	0752	\$100	QC	<a href="#">View Instr</a>
05/1985	2066	0460	\$100	OT	<a href="#">View Instr</a>
12/1983	1917	0467	\$100	OT	<a href="#">View Instr</a>
Official Records Inquiry courtesy of Ernie Lee Magaha, Escambia County Clerk of the Court					

Amendment 1 Calculations	
2008 Certified Roll Exemptions	
None	

Legal Description	
ALL OR 6055 P 752/785 LESS MBA 8 P 242 SR 164 LESS MINERAL RIGHTS	

Extra Features	
None	

**Parcel Information**

**Section Map Id:**  
04-4N-31

**Approx. Acreage:**  
625.2400

**County Zoned:**  
VAG-1

[View Online Map](#)

(NE Corner Only)

<b>Buildings</b>
<b>Images</b>

None

The primary use of the assessment data is for the preparation of the current year tax roll. No responsibility or liability is assumed for inaccuracies or errors.

**APPENDIX B**  
**FIRSTSEARCH ENVIRONMENTAL DATABASE**  
**REPORT**



# *FirstSearch Technology Corporation*

## **Environmental FirstSearch™ Report**

Target Property: ESCAMBIA COUNTY

**CENTURY FL 32535**

Job Number: 111408

### **PREPARED FOR:**

Environmental Consulting and Technology

1408 North Westshore Blvd Ste 115

Tampa FL 33607

11-14-08



*Tel: (407) 265-8900*

*Fax: (407) 265-8904*

Environmental FirstSearch is a registered trademark of FirstSearch Technology Corporation. All rights reserved.

## Environmental FirstSearch Search Summary Report

**Target Site:**

CENTURY FL 32535

### FirstSearch Summary

Database	Sel	Updated	Radius	Site	1/8	1/4	1/2	1/2>	ZIP	TOTALS
NPL	Y	10-08-08	1.00	0	0	0	0	0	0	0
NPL Delisted	Y	10-08-08	0.50	0	0	0	0	-	0	0
CERCLIS	Y	10-08-08	0.50	0	0	0	0	-	1	1
NFRAP	Y	10-08-08	0.50	0	0	0	0	-	0	0
RCRA COR ACT	Y	09-08-08	1.00	0	0	0	0	0	0	0
RCRA TSD	Y	09-08-08	0.50	0	0	0	0	-	0	0
RCRA GEN	Y	09-08-08	0.25	0	0	0	-	-	0	0
RCRA NLR	Y	09-08-08	0.25	0	0	0	-	-	0	0
Federal IC / EC	Y	10-01-08	0.50	0	0	0	0	-	0	0
ERNS	Y	07-30-08	0.12	0	0	-	-	-	0	0
Tribal Lands	Y	12-01-05	1.00	0	0	0	0	0	2	2
State/Tribal Sites	Y	08-15-08	1.00	0	0	0	0	0	1	1
State Spills 90	Y	10-06-08	0.12	0	0	-	-	-	0	0
State Spills 80	Y	09-01-01	0.25	0	0	0	-	-	1	1
State/Tribal SWL	Y	08-12-08	0.50	1	0	0	0	-	0	1
State/Tribal LUST	Y	10-06-08	0.50	0	0	0	0	-	18	18
State/Tribal UST/AST	Y	10-06-08	0.25	1	0	1	-	-	6	8
State/Tribal EC	Y	08-28-08	0.50	0	0	0	0	-	0	0
State/Tribal IC	Y	08-28-08	0.25	0	0	0	-	-	0	0
State/Tribal VCP	Y	NA	0.50	0	0	0	0	-	0	0
State/Tribal Brownfields	Y	09-15-08	0.50	0	0	0	0	-	0	0
Receptors	Y	01-01-05	0.50	0	0	0	0	-	0	0
NPDES	Y	04-12-08	0.25	0	0	0	-	-	0	0
FINDS	Y	07-10-07	0.25	0	0	0	-	-	2	2
TRIS	Y	09-23-08	0.25	0	0	0	-	-	0	0
HMIRS	Y	10-08-08	0.25	0	0	0	-	-	0	0
NCDB	Y	06-30-08	0.25	0	0	0	-	-	0	0
PADS	Y	01-01-08	0.25	0	0	0	-	-	0	0
AIRS	Y	03-15-08	0.25	0	0	0	-	-	0	0

#### Notice of Disclaimer

Due to the limitations, constraints, inaccuracies and incompleteness of government information and computer mapping data currently available to FirstSearch Technology Corp., certain conventions have been utilized in preparing the locations of all federal, state and local agency sites residing in FirstSearch Technology Corp.'s databases. All EPA NPL and state landfill sites are depicted by a rectangle approximating their location and size. The boundaries of the rectangles represent the eastern and western most longitudes; the northern and southern most latitudes. As such, the mapped areas may exceed the actual areas and do not represent the actual boundaries of these properties. All other sites are depicted by a point representing their approximate address location and make no attempt to represent the actual areas of the associated property. Actual boundaries and locations of individual properties can be found in the files residing at the agency responsible for such information.

#### Waiver of Liability

Although FirstSearch Technology Corp. uses its best efforts to research the actual location of each site, FirstSearch Technology Corp. does not and can not warrant the accuracy of these sites with regard to exact location and size. All authorized users of FirstSearch Technology Corp.'s services proceeding are signifying an understanding of FirstSearch Technology Corp.'s searching and mapping conventions, and agree to waive any and all liability claims associated with search and map results showing incomplete and or inaccurate site locations.

- Continued on next page -

## *Environmental FirstSearch Search Summary Report*

**Target Site:**

CENTURY FL 32535

### FirstSearch Summary

Database	Sel	Updated	Radius	Site	1/8	1/4	1/2	1/2>	ZIP	TOTALS
DOCKET	Y	01-09-06	0.25	0	0	0	-	-	0	0
Nuclear Permits	Y	04-30-99	0.50	0	0	0	0	-	0	0
Releases	Y	07-30-08	0.25	0	0	0	-	-	0	0
Federal Other	Y	01-12-08	0.25	0	0	0	-	-	0	0
State Permits	Y	01-14-05	0.25	0	0	0	-	-	0	0
State Other	Y	08-01-08	0.25	0	0	0	-	-	0	0
FI Map Coverage	Y	10-16-08	0.12	0	0	-	-	-	0	0
- TOTALS -				2	0	1	0	0	31	34

#### Notice of Disclaimer

Due to the limitations, constraints, inaccuracies and incompleteness of government information and computer mapping data currently available to FirstSearch Technology Corp., certain conventions have been utilized in preparing the locations of all federal, state and local agency sites residing in FirstSearch Technology Corp.'s databases. All EPA NPL and state landfill sites are depicted by a rectangle approximating their location and size. The boundaries of the rectangles represent the eastern and western most longitudes; the northern and southern most latitudes. As such, the mapped areas may exceed the actual areas and do not represent the actual boundaries of these properties. All other sites are depicted by a point representing their approximate address location and make no attempt to represent the actual areas of the associated property. Actual boundaries and locations of individual properties can be found in the files residing at the agency responsible for such information.

#### Waiver of Liability

Although FirstSearch Technology Corp. uses its best efforts to research the actual location of each site, FirstSearch Technology Corp. does not and can not warrant the accuracy of these sites with regard to exact location and size. All authorized users of FirstSearch Technology Corp.'s services proceeding are signifying an understanding of FirstSearch Technology Corp.'s searching and mapping conventions, and agree to waive any and all liability claims associated with search and map results showing incomplete and or inaccurate site locations.

**Environmental FirstSearch  
Site Information Report**

<b>Request Date:</b>	11-14-08	<b>Search Type:</b>	AREA
<b>Requestor Name:</b>	de/ect/dstowe		3.15 sq mile(s)
<b>Standard:</b>	AAI	<b>Job Number:</b>	111408
			<b>Filtered Report</b>

**Target Site:**

CENTURY FL 32535

*Demographics*

<b>Sites:</b> 34	<b>Non-Geocoded:</b> 31	<b>Population:</b> NA
<b>Radon:</b> NA		

*Site Location*

	<u>Degrees (Decimal)</u>	<u>Degrees (Min/Sec)</u>		<u>UTMs</u>
<b>Longitude:</b>	-87.365916	-87:21:57	<b>Easting:</b>	465040.864
<b>Latitude:</b>	30.929317	30:55:46	<b>Northing:</b>	3421642.25
<b>Elevation:</b>	N/A		<b>Zone:</b>	16

*Comment*

<b>Comment:</b>
-----------------

*Additional Requests/Services*

<b>Adjacent ZIP Codes:</b> 1 Mile(s)	<b>Services:</b>
--------------------------------------	------------------

<u>ZIP Code</u>	<u>City Name</u>	<u>ST</u>	<u>Dist/Dir</u>	<u>Sel</u>	<u>Requested?</u>	<u>Date</u>
32568	MC DAVID	FL	0.00 --	Y	Fire Insurance Maps	No
					Aerial Photographs	Yes 11-14-08
					Historical Topos	Yes 11-14-08
					City Directories	Yes 11-14-08
					Title Search/Env Liens	No
					Municipal Reports	No
					Online Topos	No

*Environmental FirstSearch  
Sites Summary Report*

**Target Property:** CENTURY FL 32535

**JOB:** 111408

**TOTAL:** 34      **GEOCODED:** 3      **NON GEOCODED:** 31      **SELECTED:** 34

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
2	SWL	CAMP FIVE LANDFILL 1017C00008/CLOSED, WITH GW MONI	OLD BRATT RD, 6MI SW CENTUR CENTURY FL 32535	0.00 --	N/A	1
1	UST	GROVER BLANTON FARM 178736880/CLOSED	4500 PINE BARREN ROAD CENTURY FL 32535	0.00 --	N/A	2
3	UST	D O MORGAN FARM 178837529/CLOSED	2850 BREASTWORKS ROAD MCDAVID FL 32568	0.14 NW	N/A	3

## Environmental FirstSearch Sites Summary Report

**Target Property:** CENTURY FL 32535

**JOB:** 111408

**TOTAL:** 34      **GEOCODED:** 3      **NON GEOCODED:** 31      **SELECTED:** 34

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
	CERCLIS	B and B ENTERPRISES RELEASE FLN000407659/NOT PROPOSED	130 WEST HWY 4 W. CENTURY CENTURY FL 32535	NON GC	N/A	N/A
	FINDS	CAMP FIVE LANDFILL 110013929561/FRS	OLD BRATT RD, 6MI SW CENTUR CENTURY FL 32535	NON GC	N/A	N/A
	FINDS	NORTHVIEW HIGH SCHOOL 110009083829/FRS	HWY 4 AT PINE BARREN BRATT FL 32535	NON GC	N/A	N/A
	LUST	ECK FARM HAROLD 178736904/FACILITY OPEN	VAN PELT ROAD DAVISVILLE FL 32535	NON GC	N/A	N/A
	LUST	CHAMPION INTERNATIONAL CORP-PERDID 178521309/FACILITY CLOSED	WOODLANDS GARAGE CANTONMENT FL 32535	NON GC	N/A	N/A
	LUST	CHEVRON-DEANS 178507828/FACILITY CLOSED	US 29 CENTURY FL 32535	NON GC	N/A	N/A
	LUST	ESCAMBIA CNTY ROAD DEPT-MCDAVID 178626780/FACILITY OPEN	CAMP ROAD MCDAVID FL 32535	NON GC	N/A	N/A
	LUST	ESCAMBIA CNTY SHERIFFS DEPT-SUB ST 178626835/FACILITY CLOSED	HWY 29 CENTURY FL 32535	NON GC	N/A	N/A
	LUST	EXXON-JORDANS 178838250/FACILITY CLOSED	HWY 29 CENTURY FL 32535	NON GC	N/A	N/A
	LUST	HOWARD NICKEL 178737080/FACILITY OPEN	5420 BROWN HWY WALNUT HILL FL 32568	NON GC	N/A	N/A
	LUST	RAYMOND SCHNEIDER 178508088/FACILITY CLOSED	STAR RT B BOX 360 WALNUT HILL FL 32568	NON GC	N/A	N/A
	LUST	CHEROKEE OIL CO 178507792/FACILITY CLOSED	SR 29 CENTURY FL 32535	NON GC	N/A	N/A
	LUST	SONNY and NELL S COUNTRY STORE 178508132/FACILITY CLOSED	NORTH HWY 29 MCDAVID FL 32568	NON GC	N/A	N/A
	LUST	NORTHROP OIL CO INC-BULK PLANT 178520449	SOUTH HWY 29 CENTURY FL 32535	NON GC	N/A	N/A
	LUST	MENNONITE CHURCH 178942939/FACILITY CLOSED	97 HIGH ROAD WALNUT HILL FL 32568	NON GC	N/A	N/A
	LUST	WALNUT HILL FARM SUPPLY 178942872/FACILITY CLOSED	20 SOUTH HWY 99 WALNUT HILL FL 32568	NON GC	N/A	N/A
	LUST	GREEN S GROCERY 179063891/FACILITY CLOSED	HWY 97 WALNUT HILL FL 32568	NON GC	N/A	N/A
	LUST	GODWIN FARMS VONZIE C 178508209/FACILITY CLOSED	STAR RT B BOX 26 WALNUT HILL FL 32568	NON GC	N/A	N/A
	LUST	ESCAMBIA CNTY SCHOOL BD - WALNUT H 178626016/FACILITY OPEN	HWY 97 WALNUT HILL FL 32568	NON GC	N/A	N/A
	LUST	BRYAN S GROCERY 178837535/FACILITY CLOSED	HWY 97 WALNUT HILL FL 32568	NON GC	N/A	N/A

***Environmental FirstSearch  
Sites Summary Report***

**Target Property:** CENTURY FL 32535

**JOB:** 111408

**TOTAL:** 34      **GEOCODED:** 3      **NON GEOCODED:** 31      **SELECTED:** 34

<b>Map ID</b>	<b>DB Type</b>	<b>Site Name/ID/Status</b>	<b>Address</b>	<b>Dist/Dir</b>	<b>ElevDiff</b>	<b>Page No.</b>
LUST		PINE TREE STABLES 179101756/FACILITY CLOSED	6291 MEADOWS ROAD DAVISVILLE FL 32535	NON GC	N/A	N/A
SPILLS80		ESCAMBIA CNTY-ROAD OPERATIONS 178626780/OPEN	CAMP ROAD MCDAVID FL 32535	NON GC	N/A	N/A
STATE		WDC DOORS (FORMERLY JIM WALTER DOO SITE 000077/STATE SITE	1ST ST CENTURY FL 32535	NON GC	N/A	N/A
TRIBALLAND		BUREAU OF INDIAN AFFAIRS CONTACT I BIA-32568	UNKNOWN FL 32568	NON GC	N/A	N/A
TRIBALLAND		BUREAU OF INDIAN AFFAIRS CONTACT I BIA-32535	UNKNOWN FL 32535	NON GC	N/A	N/A
UST		MIKE PLAN FARM 178736889/OPEN	BRATT ROAD CENTURY FL 32535	NON GC	N/A	N/A
UST		CAIN FARM H M 178736883/OPEN	OLD BRATT ROAD CENTURY FL 32535	NON GC	N/A	N/A
UST		HELTON BROS FARM 178736902/CLOSED	SOUTH 8TH AT GREENLANDS BRA DAVISVILLE FL 32535	NON GC	N/A	N/A
UST		HELTON BROS FARM 178837860/OPEN	GREENLAND BRATTS ROAD WALNUT HILL FL 32568	NON GC	N/A	N/A
UST		HELTON BROS FARM 178837861/CLOSED	GREENLAND BRATTS ROAD WALNUT HILL FL 32568	NON GC	N/A	N/A
UST		ESCAMBIA CNTY ROAD DEPT-MCDAVID 178626780/OPEN	CAMP ROAD MCDAVID FL 32535	NON GC	N/A	N/A

*Environmental FirstSearch  
Site Detail Report*

**Target Property:** CENTURY FL 32535

**JOB:** 111408

SWL

**SEARCH ID:** 1      **DIST/DIR:** 0.00 --      **ELEVATION:**      **MAP ID:** 2

<b>NAME:</b> CAMP FIVE LANDFILL	<b>REV:</b> 8/12/08
<b>ADDRESS:</b> OLD BRATT RD, 6MI SW CENTURY CENTURY FL 32535	<b>ID1:</b> 1017C00008
	<b>ID2:</b> 00001689
<b>CONTACT:</b> ESCAMBIA COUNTY BRD OF COMMISS	<b>STATUS:</b> CLOSED, WITH GW MONITORING
	<b>PHONE:</b> (850) 436-5783

**SITE INFORMATION**

<b>LANDFILL CLASS:</b>	CLASS II LANDFILL
<b>FACILITY STATUS:</b>	CLOSED, WITH GW MONITORING
<b>DISTRICT:</b>	NWD

**RESPONSIBLE AUTHORITY**

ESCAMBIA COUNTY BRD OF COMMISS  
13009 BEULAH RD  
CANTONMENT FL 32533  
  
(850) 436-5783



*Environmental FirstSearch  
Site Detail Report*

**Target Property:** CENTURY FL 32535

**JOB:** 111408

UST

**SEARCH ID:** 3      **DIST/DIR:** 0.00 --      **ELEVATION:** 253      **MAP ID:** 1

<b>NAME:</b> GROVER BLANTON FARM	<b>REV:</b> 10/6/08
<b>ADDRESS:</b> 4500 PINE BARREN ROAD	<b>ID1:</b> 178736880
CENTURY FL 32535	<b>ID2:</b> 8736880.00
ESCAMBIA	<b>STATUS:</b> CLOSED
<b>CONTACT:</b> GROVER BLANTON	<b>PHONE:</b> (904) 327-4640

**SITE INFORMATION**

**TOTAL NUMBER OF TANKS:** 1

**FACILITY TYPE:** M - AGRICULTURAL  
**DEP CO:** N

**TANK INFORMATION**

<b>TANK ID:</b> 1	<b>STATUS:</b> CLOSED
<b>TVI:</b> TANK	<b>DEP CO:</b> N
<b>INSTALLED:</b> 01-JUL-1984	<b>STAT DATE:</b> 01-OCT-1997

**TK STAT:** B - REMOVED  
**CAPACITY(GAL):** 1000  
**CONTENT:** D - VEHICULAR DIESEL  
**PLACE:** ABOVEGROUND  
**TYPE:** M - AGRICULTURAL

**Environmental FirstSearch  
Site Detail Report**

**Target Property:** CENTURY FL 32535

**JOB:** 111408

UST

**SEARCH ID:** 2      **DIST/DIR:** 0.14 NW      **ELEVATION:** 253      **MAP ID:** 3

<b>NAME:</b> D O MORGAN FARM	<b>REV:</b> 10/6/08
<b>ADDRESS:</b> 2850 BREASTWORKS ROAD	<b>ID1:</b> 178837529
MCDAVID FL 32568	<b>ID2:</b> 8837529.00
ESCAMBIA	<b>STATUS:</b> CLOSED
<b>CONTACT:</b> FELIX NICHOLAS	<b>PHONE:</b> (205) 368-3183

**SITE INFORMATION**

**TOTAL NUMBER OF TANKS:** 2

**FACILITY TYPE:** M - AGRICULTURAL  
**DEP CO:** N

**TANK INFORMATION**

<b>TANK ID:</b> 1	<b>STATUS:</b> CLOSED
<b>TVI:</b> TANK	<b>DEP CO:</b> N
<b>INSTALLED:</b>	<b>STAT DATE:</b>

**TK STAT:** B - REMOVED  
**CAPACITY(GAL):** 550  
**CONTENT:** D - VEHICULAR DIESEL  
**PLACE:** UNDERGROUND  
**TYPE:** M - AGRICULTURAL

<b>TANK ID:</b> 2	<b>STATUS:</b> CLOSED
<b>TVI:</b> TANK	<b>DEP CO:</b> N
<b>INSTALLED:</b>	<b>STAT DATE:</b>

**TK STAT:** B - REMOVED  
**CAPACITY(GAL):** 550  
**CONTENT:** D - VEHICULAR DIESEL  
**PLACE:** UNDERGROUND  
**TYPE:** M - AGRICULTURAL

## Environmental FirstSearch Descriptions

**NPL: EPA NATIONAL PRIORITY LIST** - The National Priorities List is a list of the worst hazardous waste sites that have been identified by Superfund. Sites are only put on the list after they have been scored using the Hazard Ranking System (HRS), and have been subjected to public comment. Any site on the NPL is eligible for cleanup using Superfund Trust money.

A Superfund site is any land in the United States that has been contaminated by hazardous waste and identified by the Environmental Protection Agency (EPA) as a candidate for cleanup because it poses a risk to human health and/or the environment.

FINAL - Currently on the Final NPL

PROPOSED - Proposed for NPL

**NPL DELISTED: EPA NATIONAL PRIORITY LIST Subset** - Database of delisted NPL sites. 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 - Deleted from the Final NPL

**CERCLIS: EPA COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY INFORMATION SYSTEM (CERCLIS)**- CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL.

PART OF NPL- Site is part of NPL site

DELETED - Deleted from the Final NPL

FINAL - Currently on the Final NPL

NOT PROPOSED - Not on the NPL

NOT VALID - Not Valid Site or Incident

PROPOSED - Proposed for NPL

REMOVED - Removed from Proposed NPL

SCAN PLAN - Pre-proposal Site

WITHDRAWN - Withdrawn

**NFRAP: EPA COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY INFORMATION SYSTEM ARCHIVED SITES** - database of Archive designated CERCLA sites that, to the best of EPA's knowledge, assessment has been completed and has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

NFRAP -- No Further Remedial Action Plan

P - Site is part of NPL site

D - Deleted from the Final NPL

F - Currently on the Final NPL

N - Not on the NPL

O - Not Valid Site or Incident

P - Proposed for NPL

R - Removed from Proposed NPL

S - Pre-proposal Site

W - Withdrawn

**RCRA COR ACT: EPA RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM SITES** - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.

RCRAInfo facilities that have reported violations and subject to corrective actions.

**RCRA TSD: EPA RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM**

TREATMENT, STORAGE, and DISPOSAL FACILITIES. - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.

Facilities that treat, store, dispose, or incinerate hazardous waste.

**RCRA GEN: EPA/MA DEP/CT DEP** RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM GENERATORS - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.

Facilities that generate or transport hazardous waste or meet other RCRA requirements.

LGN - Large Quantity Generators

SGN - Small Quantity Generators

VGN - Conditionally Exempt Generator.

Included are RAATS (RCRA Administrative Action Tracking System) and CMEL (Compliance Monitoring & Enforcement List) facilities.

CONNECTICUT HAZARDOUS WASTE MANIFEST - Database of all shipments of hazardous waste within, into or from Connecticut. The data includes date of shipment, transporter and TSD info, and material shipped and quantity. This data is appended to the details of existing generator records.

MASSACHUSETTES HAZARDOUS WASTE GENERATOR - database of generators that are regulated under the MA DEP.

VQN-MA = generates less than 220 pounds or 27 gallons per month of hazardous waste or waste oil.

SQN-MA = generates 220 to 2,200 pounds or 27 to 270 gallons per month of waste oil.

LQG-MA = generates greater than 2,200 lbs of hazardous waste or waste oil per month.

**RCRA NLR: EPA** RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM SITES - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.

Facilities not currently classified by the EPA but are still included in the RCRAInfo database. Reasons for non classification:

Failure to report in a timely matter.

No longer in business.

No longer in business at the listed address.

No longer generating hazardous waste materials in quantities which require reporting.

**Federal IC / EC: EPA** BROWNFIELD MANAGEMENT SYSTEM (BMS) - database designed to assist EPA in collecting, tracking, and updating information, as well as reporting on the major activities and accomplishments of the various Brownfield grant Programs.

FEDERAL ENGINEERING AND INSTITUTIONAL CONTROLS- Superfund sites that have either an engineering or an institutional control. The data includes the control and the media contaminated.

**ERNS: EPA/NRC** EMERGENCY RESPONSE NOTIFICATION SYSTEM (ERNS) - Database of incidents reported to the National Response Center. These incidents include chemical spills, accidents involving chemicals (such as fires or explosions), oil spills, transportation accidents that involve oil or chemicals, releases of radioactive materials, sightings of oil sheens on bodies of water, terrorist incidents involving chemicals, incidents where illegally dumped chemicals have been found, and drills intended to prepare responders to handle these kinds of incidents. Data since January 2001 has been received from the National Response System database as the EPA no longer maintains this data.

**Tribal Lands: BIA** INDIAN LANDS AND NATIVE ENTITIES IN FLORIDA - database of American Indian reservations in Florida.

**Tribal Lands: DOI/BIA INDIAN LANDS OF THE UNITED STATES** - Database of areas with boundaries established by treaty, statute, and (or) executive or court order, recognized by the Federal Government as territory in which American Indian tribes have primary governmental authority. The Indian Lands of the United States map layer shows areas of 640 acres or more, administered by the Bureau of Indian Affairs. Included are Federally-administered lands within a reservation which may or may not be considered part of the reservation.  
BUREAU OF INDIAN AFFIARS CONTACT - Regional contact information for the Bureau of Indian Affairs offices.

**State/Tribal Sites: FL DER/DEP/EPA FLORIDA SITES LIST** - database of identified facilities and/or locations that the Florida Department of Environmental Regulation has recognized with potential or existing environmental contamination.

**SUPERFUND HAZARDOUS WASTE SITES-** database that correlates to the NPL list and includes active, delisted, and Federal sites.

**State Spills 90: FDEP PETROLEUM CONTAMINATION AND CLEANUP REPORTS** - database of contaminated facility reports provide the Facility ID, Facility Type, Score, Rank, Operator Information, and Owner Information, for facilities that currently have contamination

**State/Tribal SWL: FDEP SOLID WASTE FACILITIES LIST** - database concerned with the handling of waste and includes locations identified with solid waste landfilling or associated activities involving the handling of solid waste. The presence of a site on this list does not necessarily indicate existing environmental contamination, but rather the potential. The FDEP assigns scores to the sites based on the threat to human health and the environment. The Rank is determined by the site's Score and reflects the state's priority for remedial action on that site. Typically, the lower the Rank value, the greater the priority for remedial action from the state.

**State/Tribal LUST: FDEP LEAKING UNDERGROUND STORAGE TANKS LIST** - database of petroleum storage tank systems that have reported the possible release of contaminants. Included within this list are sites that are in the Florida Early Detection Incentive (EDI) Program, the Abandoned Tank Restoration Program (ATRP) and the Petroleum Liability Insurance Restoration Program (PLIRP). These programs support remedial action or reimbursement for those sites with environmental problems due to leaking fuel storage tanks. Some sites listed in the report have not yet been accepted in these programs.

**State/Tribal UST/AST: FDEP/EPA STORAGE TANK AND CONTAMINATION MONITORING DATABASE** - Database of all storage tank facilities registered with the Department and tracked for active storage tanks, storage tank history, or petroleum cleanup activity. Information includes facility identification number, site location information, and basic storage tank information such as size, placement, substance stored, installation date and current tank status.

**TRIBAL LAND UNDERGROUND STORAGE TANKS** - database of underground storage tanks that are reported to be on Native American lands. These sites are reported to the region 4 office of the EPA by the local tribal governments. The sites can be identified by their ID: NL-FL- number.

**State/Tribal EC: FDEP INSTITUTIONAL CONTROLS REGISTRY DATABASE Subset-** database of sites that have institutional controls and engineering controls was developed to assist with tracking those properties upon which an institutional control has been imposed pursuant to the provisions contained in Chapters 376 or 403, F.S. For Brownfield sites the ICR has been prepared for the public and local governments to monitor the status of those controls.

**State/Tribal IC: FDEP INSTITUTIONAL CONTROLS REGISTRY DATABASE** - database of institutional controls was developed to assist with tracking those properties upon which an institutional control has been imposed pursuant to the provisions contained in Chapters 376 or 403, F.S. For Brownfield sites the ICR has been prepared for the public and local governments to monitor the status of those controls.

**State/Tribal VCP: FL DEP VOLUNTARY CLEANUP PROGRAM-** A static state wide database of sites that have or may receive a tax credit. Tax credits are issued based on a percentage of the costs of "voluntary" cleanup. In other words, the person conducting cleanup is paying for it rather than the site being cleaned up using state funding through the Drycleaning Solvent Cleanup Program. The following three types of sites may be eligible for tax credits: (1) A drycleaning solvent contaminated site eligible for state-funded site rehabilitation under s. 376.3078(3), F.S.; (2) A drycleaning solvent contaminated site at which cleanup is undertaken by the real property owner pursuant to s. 376.3078(10), F.S., if the real property owner is not also, and has never been, the owner or operator of the drycleaning facility where the contamination exists; or (3) A brownfield site in a

designated brownfield area under s. 376.80,F.S.

**State/Tribal Brownfields:** *FDEP* BROWNFIELDS REDEVELOPMENT PROGRAM DATABASE-database of reports generated from the Brownfield Access Database which tracks the number of designated Brownfield areas, executed Brownfield site rehabilitation agreements, state and federal programs funding, and local Brownfield coordinators' contact information

**Receptors:** *US DOC* SENSITIVE RECEPTORS - 2005 Census Bureau's TIGER (Topologically Integrated Geographic Encoding and Referencing System) database of schools and hospitals. List of schools and hospitals that may house individuals deemed sensitive to environmental discharges due to their fragile immune systems.

**NPDES:** *EPA* THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM - Database of permitted facilities receiving and discharging effluents to and from a natural source where treatment of the effluent is monitored.

**FINDS:** *EPA* FACILITY INDEX SYSTEM(FINDS)/FACILITY REGISTRY SYSTEM(FRS) - The index of identification numbers associated with a property or facility which the EPA has investigated or has been made aware of in conjunction with various regulatory programs. Each record indicates the EPA office that may have files on the site or facility. A Facility Registry System site has an FRS in the status field.

**TRIS:** *EPA* TOXIC RELEASE INVENTORY SYSTEM (TRIS)- Database that contains information on toxic chemical releases and other waste management activities reported annually by certain covered industry groups as well as federal facilities. This inventory was established under the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA) and expanded by the Pollution Prevention Act of 1990.

**HMIRS:** *US DOT* HAZARDOUS MATERIALS INCIDENT RESPONSE SYSTEM - Database of information regarding materials, packaging, and a description of events for tracked incidents.

**NCDB:** *EPA* NATIONAL COMPLIANCE DATA BASE SYSTEM - Database of regional compliance and enforcement activity and manages the Pesticides and Toxic Substances Compliance and Enforcement program at a national level. The system tracks all compliance monitoring and enforcement activities from the time an inspector conducts and inspection until the time the inspector closes or the case settles the enforcement action. NCDB is the national repository of the 10 regional and Headquarters FIFRA/TSCA Tracking System (FTTS). Data collected in the regional FTTS is transferred to NCDB to support the need for monitoring national performance of regional programs.

**PADS:** *EPA* DATABASE OF PCB HANDLERS - Database of PolyChlorinatedBiPhenol generators, transporters, storers and/or disposers that are required to register with the EPA. This database indicates the type of handler and registration number. Also included is the PCB Transformer Registration Database.

**AIRS:** *EPA* AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) – database of detailed information pertaining to sites which submit air emissions reports. Developed under the Clean Air Act, this database also maintains data on compliance status and enforcement actions.

**RADON:** *NTIS* NATIONAL RADON DATABASE - EPA radon data from 1990-1991 national radon project collected for a variety of zip codes across the United States.

**DOCKET:** *EPA* INTERGRATED COMPLIANCE INFORMATION SYSTEM (ICIS) - database of federal administrative and federal judicial cases under the following environmental statutes: the Clean Air Act (CAA), the Clean Water Act (CWA), the Resource Conservation and Recovery Act (RCRA), the Emergency Planning and Community Right-to-Know Act (EPCRA) Section 313, the Toxic Substances Control Act (TSCA), the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund), the Safe Drinking Water Act (SDWA), and the Marine Protection, Research, and Sanctuaries Act (MPRSA).

**Nuclear Permits:** *EPA/NRC* PERMITTED NUCLEAR FACILITIES - This database is a comprehensive listing of all facilities which have been issued permits for the handling of radioactive materials, in addition it also contains a complete listing of all licensed and active nuclear power plants located within the United States. THE RADINFO DATABASE - Database of basic information about facilities that are permitted and regulated for their use and handling of radioactive materials.

**Federal Other:** *EPA* SECTION SEVEN TRACKING SYSTEM (SSTS) – database of registration and

production data for facilities which manufacture pesticides.

VAPOR INTRUSION DATABASE – database that records the migration of volatile chemicals from the subsurface into overlying buildings. Volatile chemicals in contaminated soil or groundwater can emit vapors that may migrate through soil and into indoor air spaces.

**State Permits: *DERM/DNRP* BROWARD COUNTY**

EARLY DETECTION INCENTIVE (EDI)- database of leaking tank sites that fall under the following categories: Early Detection Incentive (EDI), Petroleum Liability Insurance Reimbursement (PLIRP), and Abandoned Tank Restoration (ATRP)

ENVIRONMENTAL ASSESSMENT AND REMEDIATION (EA)- database of sites that have been issued licenses (by DNRP) to ensure that proper assessment and remediation are applied.

REGISTERED UNDERGROUND AND ABOVEGROUND STORAGE TANKS (ST)- database of sites on DNRP inventory of Underground and Aboveground Storage Tanks in Broward County.

HAZARDOUS MATERIALS (HM)- database of sites that are involved in some way in the handling of hazardous substances or wastes. Due to the activities relating to the handling of hazardous substances or waste, these sites possess the potential for environmental contamination.

**DADE COUNTY**

ENFORCEMENT CASES (ENF)- database of sites that have been notified and/or investigated by Dade County to determine if any cleanup activity is necessary. Leaking Underground Storage tanks make up the bulk of this database, but other types of sites include: unauthorized air emissions, unauthorized storage facilities, and site specific spills.

UNDERGROUND STORAGE TANKS (UT)- database of sites on the DERM inventory of Underground Storage Tanks in Dade County.

FUEL CASE SPILL (FSPILL)- database of sites on the DERM listing of spill cases in Dade County. It consists mainly of underground tanks.

INDUSTRIAL WASTE (IW)- IW2 - database of facilities with reclaim systems or holding tanks. IW3 - Facilities with pretreatment or treatment systems that discharge to sewers less than 25,000 gal. per day. IW4 - Facilities that operate treatment systems that discharge to open ground. (Permits are no longer issued to facilities that discharge to open ground.)

INDUSTRIAL WASTE (IW5)- database of Industrial Waste type 5. It is similar to the USEPA RCRA database (RCRIS) and includes sites that are involved in some way in the handling of hazardous and/or non-Hazardous waste. Due to the activities relating to the handling of hazardous substances or waste, these sites possess the potential for environmental contamination.

HAZARDOUS WASTE(HW)- database of sites with confirmed soil or groundwater contamination.

**State Other: *FDEP* SINKHOLES** - database of sinkholes from the Florida Geological Survey Sinkholes.

DRYCLEANERS LIST - database of dry cleaning facilities registered with the Department. Information includes facility identification number, site location information, related party (owner) information, and facility type and status. Data is taken from the Storage Tank & Contamination Monitoring database, the registration repository of dry cleaner facility data.

CATTLE DIPPING VATS - database of vats that were filled with an arsenic solution for the control and eradication of the cattle fever tick. Other pesticides such as DDT were also widely used. This is a static list from 1910 through 1950s.

**State Other: *US DOJ* NATIONAL CLANDESTINE LABORATORY REGISTER** - Database of 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 U.S. Department of Justice ("the Department"), and the Department has not verified the entry and does not guarantee its accuracy. All sites that are included in this data set will have an id that starts with NCLR.

**FI Map Coverage: *PROPRIETARY* FIRE INSURANCE MAP AVAILABILITY** - Database of historical fire insurance map availability.

## Environmental FirstSearch Database Sources

**NPL: EPA** Environmental Protection Agency

*Updated quarterly*

**NPL DELISTED: EPA** Environmental Protection Agency

*Updated quarterly*

**CERCLIS: EPA** Environmental Protection Agency

*Updated quarterly*

**NFRAP: EPA** Environmental Protection Agency.

*Updated quarterly*

**RCRA COR ACT: EPA** Environmental Protection Agency.

*Updated quarterly*

**RCRA TSD: EPA** Environmental Protection Agency.

*Updated quarterly*

**RCRA GEN: EPA/MA DEP/CT DEP** Environmental Protection Agency, Massachusetts Department of Environmental Protection, Connecticut Department of Environmental Protection

*Updated quarterly*

**RCRA NLR: EPA** Environmental Protection Agency

*Updated quarterly*

**Federal IC / EC: EPA** Environmental Protection Agency

*Updated quarterly*

**ERNS: EPA/NRC** Environmental Protection Agency

*Updated annually*

**Tribal Lands: BIA** Bureau of Indian Affairs

*Updated when available*



**Tribal Lands:** *DOI/BIA* United States Department of the Interior

*Updated annually*

**State/Tribal Sites:** *FL DER/DEP/EPA* Florida Department of Environmental Protection, Bureau of Waste Cleanup

*Updated quarterly*

**State Spills 90:** *FDEP* Florida Department of Environmental Protect

*Updated quarterly*

**State/Tribal SWL:** *FDEP* Florida Department of Environmental Protection

*Updated annually*

**State/Tribal LUST:** *FDEP* Florida Department of Environmental Protection

*Updated quarterly*

**State/Tribal UST/AST:** *FDEP/EPA* Florida Department of Environmental Protection

*Updated quarterly*

**State/Tribal EC:** *FDEP* Florida Department of Environmental Protect

*Updated quarterly*

**State/Tribal IC:** *FDEP* Florida Department of Environmental Protect

*Updated quarterly*

**State/Tribal VCP:** *FL DEP* Florida Department of Environmental Protection

*Updated no longer available*

**State/Tribal Brownfields:** *FDEP* The Florida Department of Environmental Protection, Division of Waste Management.

*Updated quarterly*

**Receptors:** *US DOC* US Department of Commerce, Census Bureau

*Updated periodically*

**NPDES:** *EPA* Environmental Protection Agency

*Updated quarterly*

**FINDS: EPA** Environmental Protection Agency

*Updated annually*

**TRIS: EPA** Environmental Protection Agency.

*Updated quarterly*

**HMIRS: US DOT** US Department of Transportation

*Updated quarterly*

**NCDB: EPA** Environmental Protection Agency

*Updated quarterly*

**PADS: EPA** Environmental Protection Agency

*Updated quarterly*

**AIRS: EPA** Environmental Protection Agency

*Updated quarterly*

**RADON: NTIS** Environmental Protection Agency, National Technical Information Services

*Updated periodically*

**DOCKET: EPA** Environmental Protection Agency

*Updated when available*

**Nuclear Permits: EPA/NRC** Nuclear Regulatory Commission

*Updated periodically*

**Federal Other: EPA** Environmental Protection Agency

*Updated quarterly*

**State Permits: DERM/DNRP** DADE COUNTY Department of Environmental Resource Management (DERM)

*Updated quarterly*

**State Other: FDEP** Florida Department of Environmental Protection Storage Tank & Contamination Monitoring.  
Florida Department of Environmental Protection Cattle Dipping Vats

*Updated quarterly*

**State Other:** *US DOJ* U.S. Department of Justice

*Updated when available*

**FI Map Coverage:** *PROPRIETARY* Library of Congress  
Catalogue of Maps Published by Sanborn Mapping and Geographic Information Service in February 1988®  
ProQuest  
Other internally produced datasets

*Updated quarterly*

***Environmental FirstSearch***  
***Street Name Report for Streets within .25 Mile(s) of Target Property***

**Target Property:** CENTURY FL 32535

**JOB:** 111408

<b>Street Name</b>	<b>Dist/Dir</b>	<b>Street Name</b>	<b>Dist/Dir</b>
Bratt Rd	0.25 N-		
Breastworks Rd	0.00 --		
Camp Rd	0.00 --		
Christian Home Rd	0.00 --		
Commalander Rd	0.09 -E		
Cox Rd	0.00 --		
Holland Rd	0.10 SE		
Judy Ln	0.03 N-		
N Pine Barren Rd	0.00 --		
Purdue Rd	0.05 SW		
Victor Rd	0.03 SW		



## **HISTORICAL FIRE INSURANCE MAPS**

**NO MAPS AVAILABLE**

**11-14-08**

**111408**

**CENTURY FL 32535**

A search of FirstSearch Technology Corporation's proprietary database of historical fire insurance map availability confirmed that there are NO MAPS AVAILABLE for the Subject Location as shown above.

FirstSearch Technology Corporation's proprietary database of historical fire insurance map availability represents abstracted information from the Sanborn® Map Company obtained through online access to the U.S. Library of Congress via local libraries.

### Copyright Policy & Disclaimer

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## CITY DIRECTORY REVIEW

Report Date: November 14, 2008  
Client Job Number: 111408  
FirstSearch ID: 186573  
Site Address(es): Century, FL 32535

A search was conducted for the subject area noted above to identify any Historical City Directory coverage/tenant information maintained at national repositories, local city/town libraries and/or various public sources.

The following information is the result of the search:

City Directories not ascertainable using the information provided.

**Notes:** No further coverage available

## GLOSSARY OF TERMS

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“No Listing/Not Listed” - address not listed in the directory

“Vacant” or “No Current Listing” - status of address in directory

“Residential Listing” - one residential listing located at address

“Multiple Residential Listings” - more than one residential listing located at address

“Multiple Retail Listings” - more than one retail facility located at address

“Multiple Business Listings” - more than one business listing at address

“Multiple Government Offices” - more than one federal listing at an address

“Multiple Municipal Listings” - more than one municipal listing at an address

“Multiple Military Listings” - more than one military listing at an address

“Street Not Listed” - street not listed in directory

---

When multiple tenants/facilities are observed for one address, the information may be summarized as shown in the following examples:

- An apartment building will be represented by “Multiple Residential Listings”
- A retail shopping center will be represented by “Multiple Retail Listings” followed by a separate listing of sites, if present, which may contain the use of regulated/chemical/hazardous materials such as dry cleaners, photo finishers, hair salons, auto repair shops, etc.
- An office building consisting of attorneys, insurance, firms, or other facilities which do not indicate the use of regulated/chemical/hazardous materials will be represented by “Multiple Business Listings”

Residential addresses, including individual houses and apartment buildings, are listed as residential. Names of tenants can be provided if needed.

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Unless otherwise noted, the subject address(es) plus four adjacent addresses up from the subject property and four addresses down from the subject property are included in the report, if available.

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*Although great care has been taken by FirstSearch Technology Corporation in compiling and verifying the information contained in this report to insure that it is accurate, FirstSearch Technology Corporation disclaims any and all liability for any errors, omissions, or inaccuracies in such information and data.*

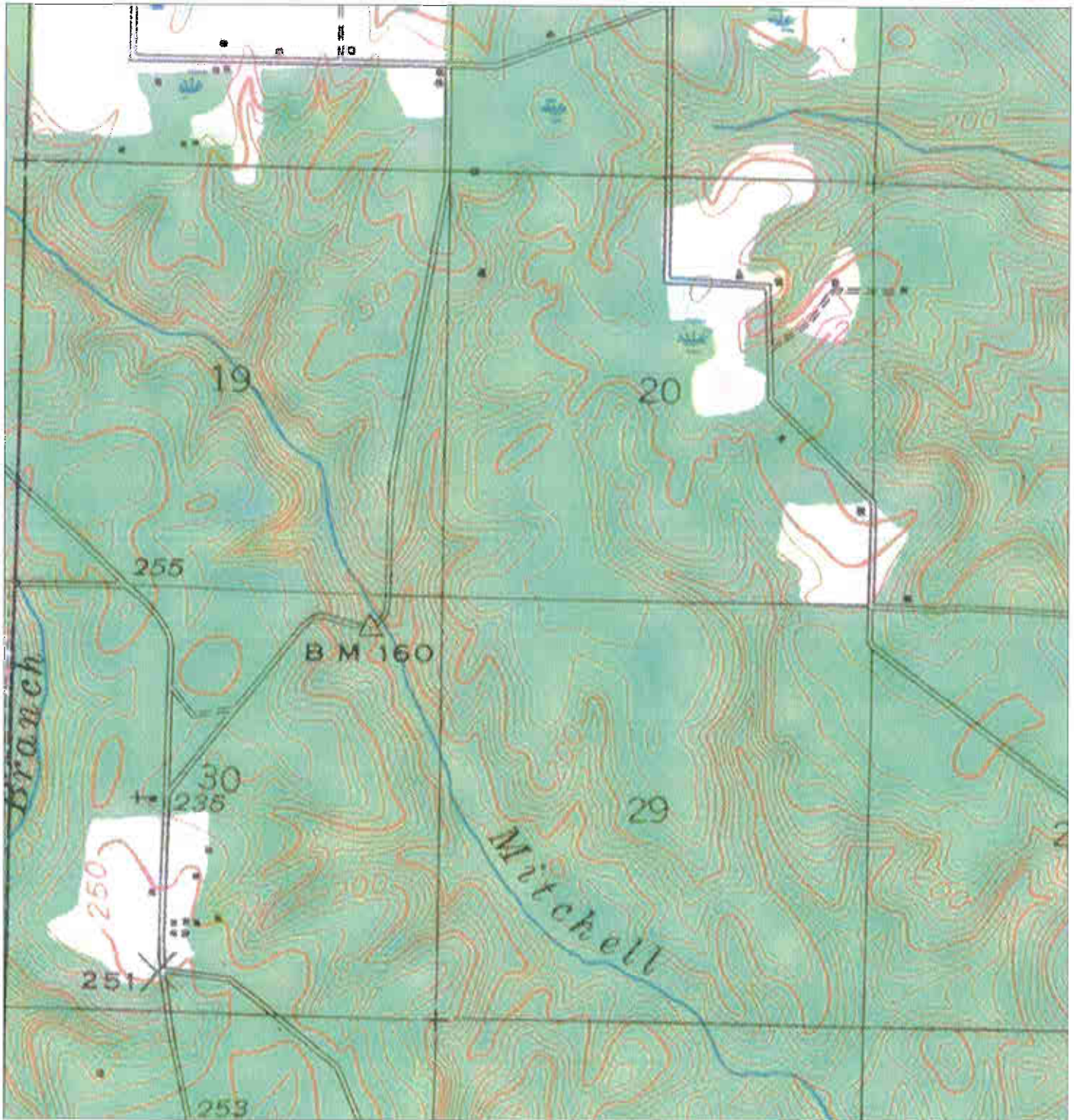
# Environmental FirstSearch

Topo: Current Map 1.25 Mile Radius

Historical Topo

1941 1: 62500

CENTURY, FL





**APPENDIX C**

**CAMP FIVE LANDFILL DOCUMENTS**

**Table 3-1  
Well Information Summary  
Camp Five Landfill**

Well ID	Year of Installation	Well Use	Well Diameter (in)	TOC Elevation (ft NGVD)	Ground Surface Elevation (ft NGVD)	Total Depth (ft BLS)	Top of Screen Interval (ft BLS)	Bottom of Screen Interval (ft BLS)	Screen Length (ft)	Top of Screen Elevation (ft NGVD)	Bottom of Screen Elevation (ft NGVD)
MW-1	1981	Piezometer	4	234.79	NR	25.00	20.00	25.00	5.00	NR	NR
MW-2	1985	Piezometer	4	239.35	NR	37.00	27.00	37.00	10.00	NR	NR
MW-3	1985	Piezometer	4	269.13	NR	50.00	40.00	50.00	10.00	NR	NR
MW-4	1989	Piezometer	4	258.80	256.00	57.70	47.20	57.20	10.00	208.80	198.80
MW-5	1989	Piezometer	2	269.00	267.70	69.20	58.70	68.70	10.00	209.00	199.00
MW-6	1989	Piezometer	2	267.80	266.90	59.60	49.10	59.10	10.00	217.80	207.80
MW-7	1989	Piezometer	2	262.20	260.90	59.20	48.70	58.70	10.00	212.20	202.20
MW-8	1990	Background	4	247.38	244.61	62.20	47.20	62.20	15.00	197.41	182.41
MW-9	1991	Compliance	4	255.81	253.59	61.00	43.00	58.00	15.00	210.59	195.59
MW-10	1991	Compliance	4	255.10	254.04	53.00	37.50	52.50	15.00	216.54	201.54
MW-11	2000	Compliance	4	229.14	226.25	31.50	18.00	28.00	10.00	208.25	198.25
MW-12	2006	Delineation	2	250.91	248.20	49.40	39.40	49.40	10.00	208.80	198.80
MW-13	2006	Delineation	2	249.19	246.55	50.75	40.75	50.75	10.00	205.80	195.80
MW-14	2006	Delineation	2	241.18	238.06	44.80	34.80	44.80	10.00	203.26	193.26

Notes:

in - inches  
ft - feet

NGVD - National Geodetic Vertical Datum (Mean Sea Level)

NR - Not recorded

BLS - Below land surface

Table 5-1  
Summary of Field Measurements  
Camp Five Landfill

Parameter	Units	Monitoring Wells																							
		MW-8			MW-9			MW-10			MW-11			MW-12			MW-13			MW-14					
		Mar-06	Jul-06	Sep-06	Mar-06	Jul-06	Sep-06	Mar-06	Jul-06	Sep-06	Mar-06	Jul-06	Sep-06	Mar-06	Jul-06	Sep-06	Mar-06	Jul-06	Sep-06	Mar-06	Jul-06	Sep-06			
Specific conductivity	umhos/cm	19	2	3	139	16	27	219	21	39	44	30	15	34	4	12	7	7	12	4	5	8			
pH	std. units	4.27	4.10	4.2	5.71	6.80	5.20	6.20	6.10	5.70	5.03	5.60	5.60	5.22	4.80	3.88	4.40	4.40	3.88	4.80	4.10	3.74			
Dissolved oxygen	mg/L	6.0	7.1	7.2	0.2	4.3	0.5	0.5	3.4	1.3	1.2	0.3	4.5	1.0	1.4	1.0	5.2	5.2	1.0	1.4	8.6	7.0			
Oxidation-Reduction Potential	mV	222	298	343	9	-43	19	-17	-99	-46	131	79	45	25	190	282	182	182	282	104	253	395			
Temperature	°C	21.2	21.7	24.1	21.5	23.0	21.9	22.9	25.9	24.1	20.3	22.6	22.3	24.9	24.7	22.0	22.0	22.0	22.6	22.0	21.7	21.5			
Ferrous Iron	mg/L	NA	0.08	0.04	NA	7.55	3.03	NA	8.23	8.22	NA	0.96	2.54	3.19	0.80	0.22	0.22	0.22	0.25	0.55	0.34	0.09			

Notes:  
 NA - not analyzed  
 umhos/cm - micromhos per centimeter  
 std. units - standard pH units  
 mg/L - milligrams per liter  
 mV - millivolts  
 NTU - Nephelometric Turbidity Units  
 °C - degrees Celsius

TABLE 4

Summary of Detected Constituents in Groundwater  
Fall 2008 Semi-Annual Report

Camp V Landfill  
Escambia County, Florida

Parameter	Units	MCL	EQ-1-C	MW-10	MW-11	MW-8	MW-9
			8/12/2008	8/12/2008	8/12/2008	8/12/2008	8/12/2008
Volatile and Semivolatile Organic Compounds							
Benzene	µg/L	1	< 0.3 U	0.42 I	< 0.3 U	< 0.3 U	< 0.3 U
Chlorobenzene	µg/L	100	< 0.28 U	0.95 I	< 0.28 U	< 0.28 U	< 0.28 U
Inorganic Constituents							
Ammonia (as N)	µg/L	2800*	< 8 U	1300	1800	< 8 U	1400
Arsenic	µg/L	10	< 1.1 U	6.73 I	2.97 I	< 1.1 U	3.72 I
Barium	µg/L	2000	< 5 U	45.6 I	19.9 I	< 5 U	18.1 I
Chloride	µg/L	250000	970 I	14000	7600	2500 I	2900 I
Chromium	µg/L	100	< 0.69 U	0.906 I	< 0.69 U	0.996 I	0.806 I
Iron	µg/L	300	26.5 IV	19100 V	14000 V	62.3 V	13100 V
Nitrate-N	µg/L	10000	< 4 U	310 I	< 4 U	240 I	220 I
Sodium	µg/L	160000	897 IV	11000 V	6010 V	2090 V	2180 V
Total Dissolved Solids	µg/L	500000	< 10000 U	130000	88000	26000	48000
Zinc	µg/L	5000	7.65 I	9.16 I	10.1 I	< 6.5 U	32 I

NOTES:

µg/L = Micrograms per Liter

**Bold** = Exceeds regulatory values.

U = Below laboratory detection limit. Value reported is the detection limit.

I = The reported value is between the laboratory method detection limit and the practical quantitation limit.

V = The analyte was detected in both the sample and the associated method blank.

\*No MCL or Class III standard established, clean-up criteria from 62.777 used instead

**Table 5-2  
Summary of Iron Results  
Camp Five Landfill**

<b>Sample ID</b>	<b>Units</b>	<b>Mar-06</b>	<b>Jul-06</b>	<b>Sep-06</b>
<b>Groundwater</b>				
MW-8	mg/L	0.19	0.14	0.09
MW-9	mg/L	19	14.9	7.5
MW-10	mg/L	18	8.2	8.9
MW-11	mg/L	3.7	NA	NA
MW-12	mg/L	0.78	2.86	7.43
MW-13	mg/L	0.46	0.57	0.35
MW-14	mg/L	0.64	6.96	0.18
<b>Surface Water</b>				
Mitchell Creek-1	mg/L	1.50	NA	NA
Mitchell Creek-2	mg/L	1.00	NA	NA
Mitchell Creek-3	mg/L	0.07	NA	NA

Notes:  
mg/L = milligrams per liter  
NA = not analyzed

**Table 5-3  
Analytical Summary for Geochemical Parameters - March 2006  
Camp Five Landfill**

Parameter	Units	Detection Limit	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	Mitchell Creek-1	Mitchell Creek-2	Mitchell Creek-3
Total ammonia - N	mg/L	0.03	0.26	0.94	1.9	0.39	1.60	0.04	BDL	BDL	BDL	BDL
Chlorides	mg/L	1	2.8	5.8	8.4	3.2	11.00	7.40	4.50	3.60	3.60	7.20
Nitrate	mg/L	0.05	0.11	0.03	0.06	0.06	5.80	0.55	0.78	0.22	BDL	0.66
Total Suspended Solids (TSS)	mg/L	2	NA	NA	NA	NA	12	12	14	13	13	36
Total Dissolved Solids (TDS)	mg/L	5	10	53	72	19	64	28	27	13	91	12
Calcium	mg/L	0.05	NA	NA	NA	NA	2.50	0.96	0.78	0.52	0.47	0.76
Iron	mg/L	0.05	0.19	19	18	3.7	0.78	0.46	0.64	1.50	1.00	0.07
Potassium	mg/L	1	NA	NA	NA	NA	8.60	2.00	1.20	BDL	BDL	BDL
Magnesium	mg/L	0.05	NA	NA	NA	NA	1.30	0.39	0.58	0.46	0.45	1.00
Sodium	mg/L	2.5	1.5	4.3	8.2	1.7	10.00	6.20	3.50	BDL	BDL	2.80
Fluoride	mg/L	0.2	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL
Sulfate	mg/L	5	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL
Total Organic Carbon	mg/L	1	NA	NA	NA	NA	2.00	BDL	BDL	3.20	2.80	2.60
Bicarbonate as HCO <sub>3</sub>	mg/L	1	NA	NA	NA	NA	45.0	5.8	1.7	BDL	BDL	BDL
Alkalinity	mg/L	1	NA	NA	NA	NA	45.0	5.8	1.7	BDL	BDL	BDL
Phosphate - as P	mg/L	0.05	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL

Notes:  
mg/L - milligrams per liter  
BDL - below detection limit

**Table 4-1  
Data Use Summary - 2006 Assessment  
Camp Five Landfill**

Analysis	Data Use
<b>Field Based</b>	
Iron(II)	Ferrous iron is produced during anaerobic iron reduction. Elevated ferrous iron indicates microbial activity within a contaminant plume. Ferrous iron is unstable and must be quickly analyzed in the field.
Temperature	General groundwater quality measurement used to gauge sample stability. May be indicative of biological processes.
Turbidity	General groundwater quality measurement used to gauge sample stability. Turbid samples may provide information on iron reduction
Conductivity	General groundwater quality measurement, indicates that groundwater quality is consistent throughout a site.
Alkalinity	Field measurement of alkalinity required for charge balances.
Redox	An indication of the availability of electrons in the groundwater. A negative redox indicates anaerobic or reduced conditions, a positive redox indicates aerobic or oxidized conditions.
pH	Provides evidence of sample stability and a pH in a biologically suitable range.
Dissolved Oxygen	Determines whether an aquifer is aerobic or anaerobic.
<b>Laboratory Based</b>	
Cations (Fe, Mg, Na, K)	Charge balance and comparison of different waters
Anions (SO <sub>4</sub> , Cl, bicarbonate alkalinity)	Charge balance and comparison of different waters
Total Organic Carbon (TOC)	Leachate parameter

**TABLE 1**

**Monitoring Well Construction Details  
Fall 2008 Semi-Annual Report**

**Camp V Landfill  
Escambia County, Florida**

Well ID	Well Diameter (inches)	Total Depth (ft bl TOC)	TOC Elevation (ft NGVD)	Screen Interval	
				from (ft bls)	to (ft bls)
<b>MW-1</b>	4.0	17.39	234.79	20.0	25.0
<b>MW-2</b>	4.0	21.82	239.35	27.0	37.0
<b>MW-3</b>	4.0	55.78	269.13	40.0	50.0
<b>MW-5</b>	2.0	57.67	269.00	58.7	68.7
<b>MW-6</b>	2.0	50.68	267.80	49.10	59.10
<b>MW-8</b>	4.0	62.20	247.38	47.20	62.20
<b>MW-9</b>	4.0	61.00	255.81	43.00	58.00
<b>MW-10</b>	4.0	53.00	255.10	37.50	52.50
<b>MW-11</b>	4.0	28.00	229.14	16.00	31.00

**NOTES:**

ft bl TOC = feet below top of casing

ft NGVD = feet National Geodetic Vertical Datum of 1929

ft bls = feet below land surface



**TABLE 2**

**Groundwater Level Elevations  
Fall 2008 Semi-Annual Report**

**Camp V Landfill  
Escambia County, Florida**

<b>Well ID</b>	<b>Date</b>	<b>TOC Elevation (ft NGVD)</b>	<b>Depth to Water (ft bl TOC)</b>	<b>Groundwater Elevation</b>
<b>MW-1</b>	8/12/2008	234.79	19.40	215.39
<b>MW-2</b>	8/12/2008	239.35	23.72	215.63
<b>MW-3</b>	8/12/2008	269.13	57.52	211.61
<b>MW-5</b>	8/12/2008	269.00	59.24	209.76
<b>MW-6</b>	8/12/2008	267.80	52.57	215.23
<b>MW-8</b>	8/12/2008	247.38	31.13	216.25
<b>MW-9</b>	8/12/2008	255.81	41.47	214.34
<b>MW-10</b>	8/12/2008	255.10	40.84	214.26
<b>MW-11</b>	8/12/2008	229.14	14.45	214.69

**NOTES:**

ft NGVD = feet National Geodetic Vertical Datum of 1929

ft bl TOC = feet below top of casing

**TABLE 3**

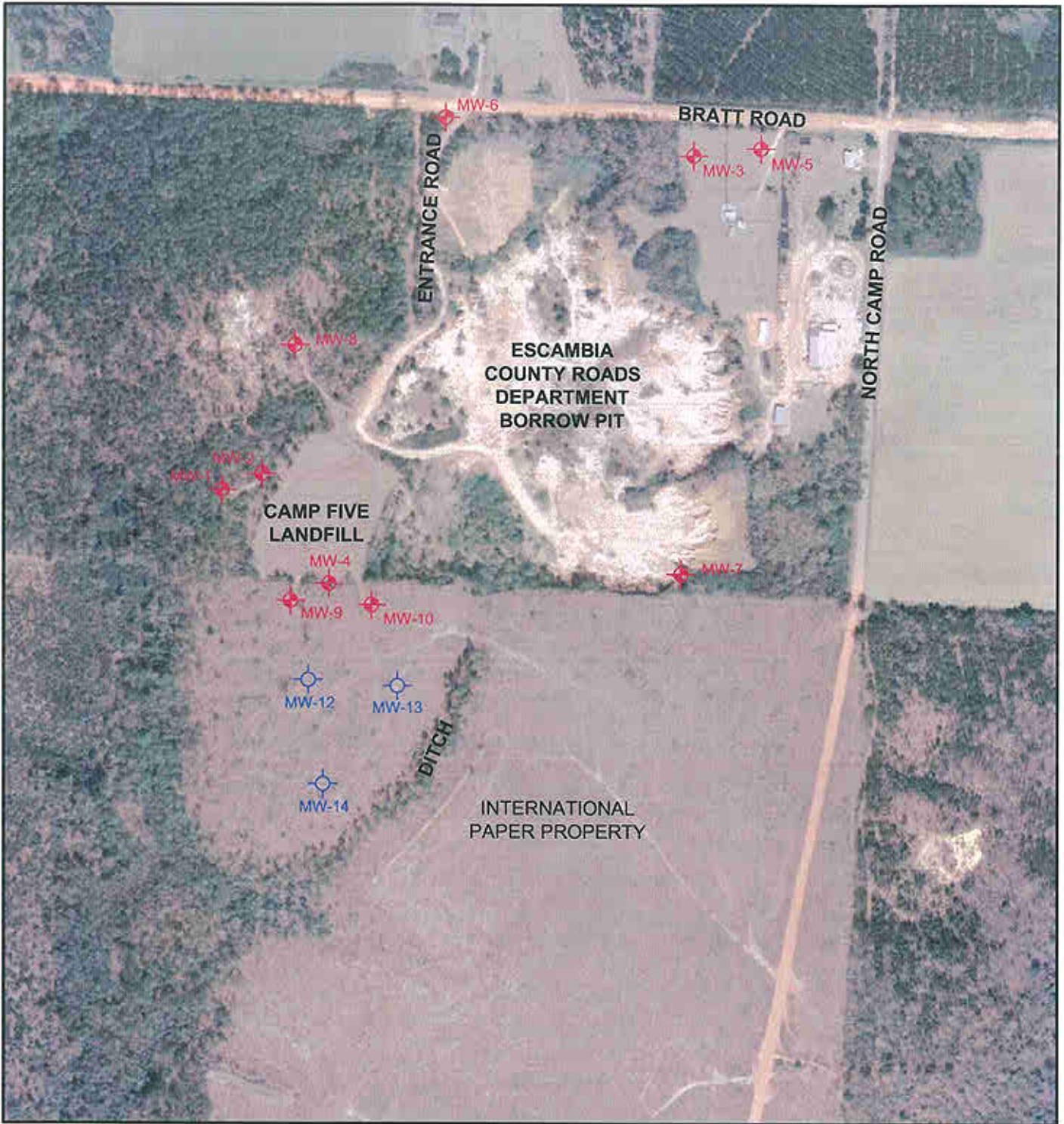
**Summary of Groundwater Field Parameters  
Fall 2008 Semi-Annual Report**

**Camp V Landfill  
Pensacola, Florida**

Well Locations	Date	pH (SU)	Turbidity (NTU)	Temperature (°C)	Conductivity (µS/cm)	ORP (mV)	D.O. (mg/L)
<b>MW-8</b>	8/12/2008	4.66	2.9	21.33	15	80.5	4.51
<b>MW-9</b>	8/12/2008	5.78	0.94	21.57	88	-3.7	0.93
<b>MW-10</b>	8/12/2008	5.90	1.85	22.97	203	-17.1	0.93
<b>MW-11</b>	8/12/2008	5.68	0.71	22.26	151	-21.4	0.53

**NOTES:**

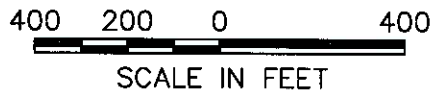
- SU = Standard Units
- NTU = Nephelometric Turbidity Units
- °C = Degrees Celsius
- µS/cm = microSiemens per centimeter
- mV = millivolt
- mg/L = milligram per Liter
- ORP = Oxidation Reduction Potential
- D.O. = Dissolved Oxygen



MAP SOURCE: FDEP WEBSITE WWW.LABINS.ORG  
 PHOTO DATE: 15 JUNE 2004

**LEGEND**

-  EXISTING SITE MONITORING WELL
-  MONITORING WELL INSTALLED IN 2005



**SITE LAYOUT MAP**

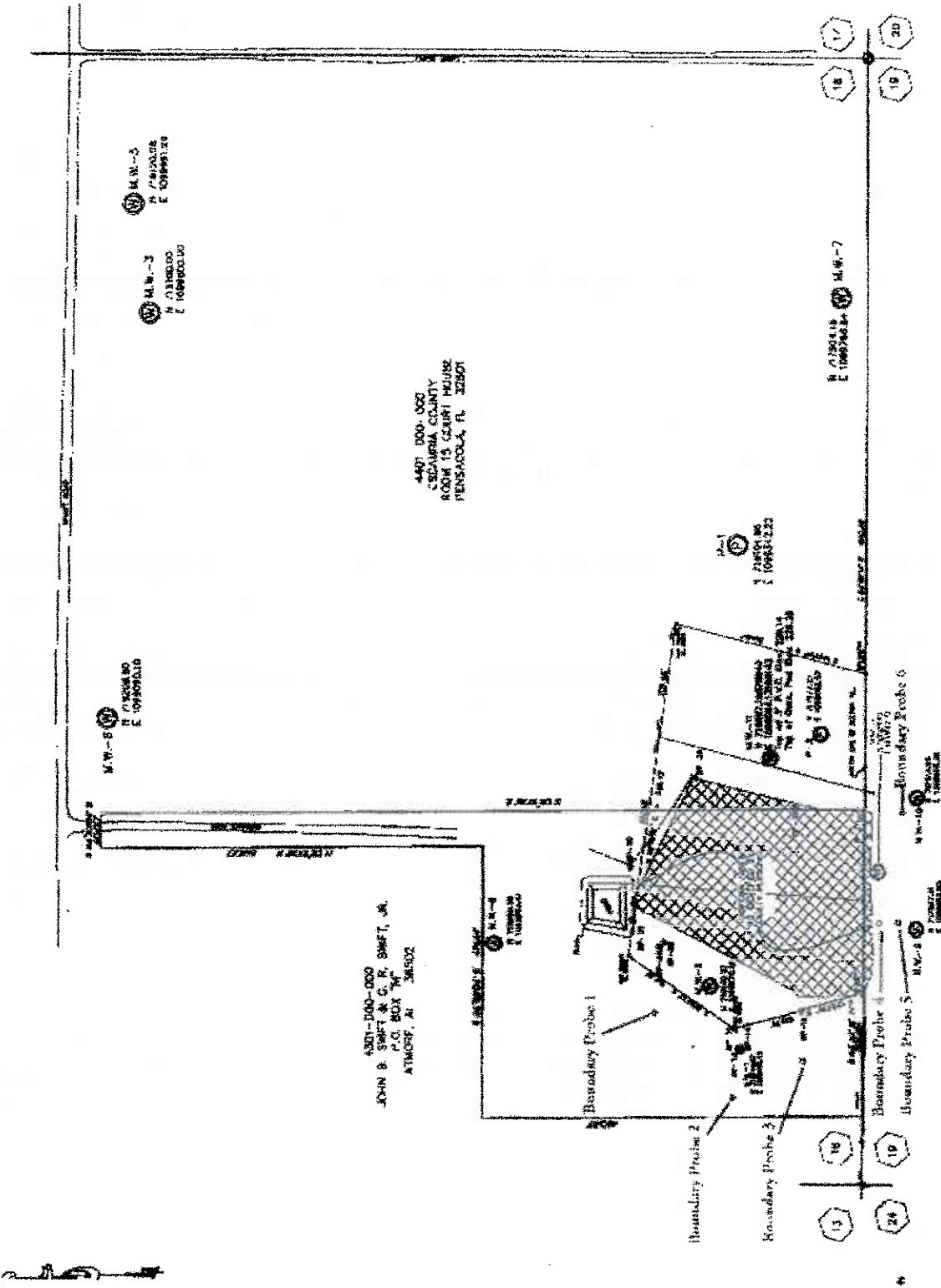
FIGURE NO.	1-2
PROJECT NO.	FL0649.03
FILE NO.	FL0649.03F016.DWG



ESCAMBIA COUNTY  
 DEPARTMENT OF  
 SOLID WASTE MANAGEMENT  
 CANTONMENT, FLORIDA



**GEOSYNTEC CONSULTANTS**



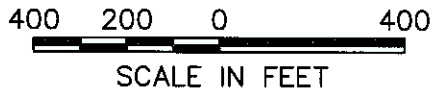
H:\DSWM\Closed LFs\camp five landfill\FG\Qtr Boundary Probe Survey\2008\08-01.tif



MAP SOURCE: FDEP WEBSITE WWW.LABINS.ORG  
 PHOTO DATE: 15 JUNE 2004

**LEGEND**

-  EXISTING SITE MONITORING WELL
-  MONITORING WELL INSTALLED IN 2005



**SITE LAYOUT MAP**

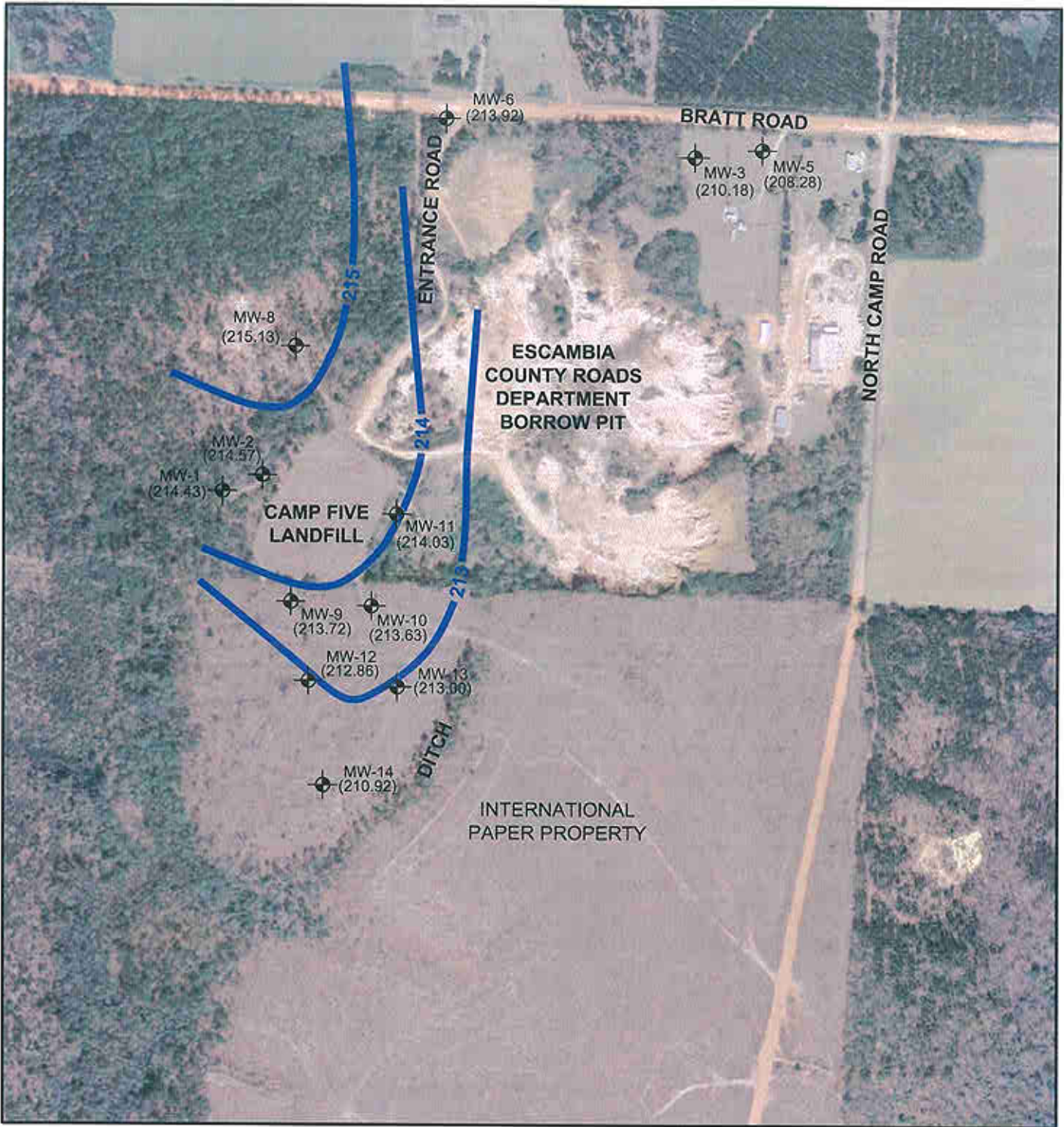
FIGURE NO.	1-2
PROJECT NO.	FL0649.03
FILE NO.	FL0649.03F016.DWG



ESCAMBI COUNTY  
 DEPARTMENT OF  
 SOLID WASTE MANAGEMENT  
 CANTONMENT, FLORIDA



**GEOSYNTEC CONSULTANTS**

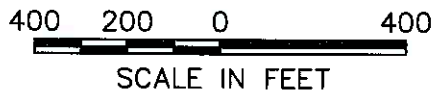


MAP SOURCE: FDEP WEBSITE WWW.LABINS.ORG  
 PHOTO DATE: 15 JUNE 2004

**LEGEND**

 GROUNDWATER GAUGING  
 MW-10 LOCATION APRIL 2006

(226.5) ELEVATION (FT MSL)



**POTENTIOMETRIC SURFACE MAP  
 (MARCH 2006)**

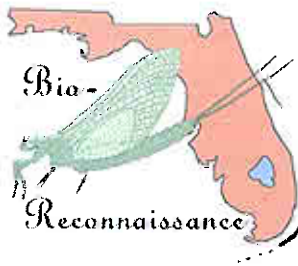


ESCAMBIA COUNTY  
 DEPARTMENT OF  
 SOLID WASTE MANAGEMENT  
 CANTONMENT, FLORIDA



**GEOSYNTEC CONSULTANTS**

FIGURE NO.	3-4
PROJECT NO.	FL0649.03
FILE NO.	FL0649.03F006.DWG



# EcoSummary

BioRecon Report



## Camp Five Branch below Camp Five Landfill, Escambia County March 21, 2002

BioRecon: A rapid, cost-effective screening mechanism for identification of biological impairment

### Introduction

A bioassessment was performed at this site to assess the impacts of Escambia County's Camp Five landfill to the biota and wildlife habitat to Camp Five Branch. This bioassessment was in technical support of a compliance action by the FDEP Northwest District's Waste Management Cleanup Section. Camp Five Branch at the bioassessment site is a second order stream, originating at the landfill, below Bratt Road ~2 miles southeast of Bratt, Escambia County (Lat. 30° 56' 22.7" Long. 87° 22' 36.7"). This spring-seepage ravine stream type was typical of the geology of the northern part of the westernmost county of Florida. Camp Five Branch flows into Pensacola Bay via the Escambia River and drains the Southern Pine Plains and Hills of subecoregion 65f.



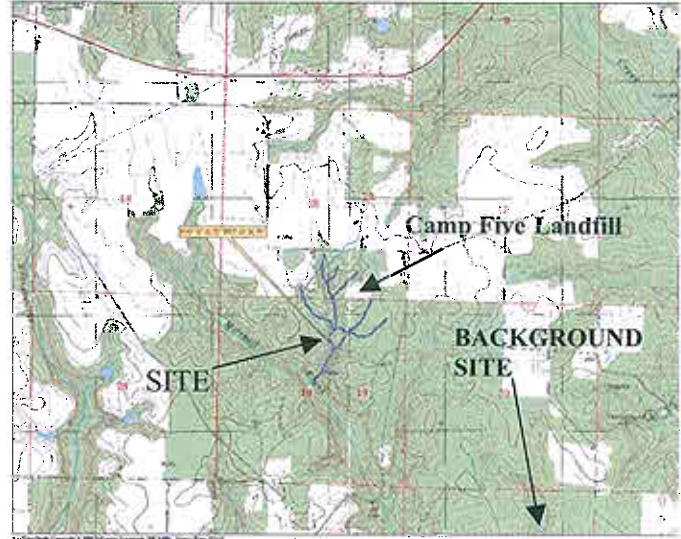
### Results and Discussion

The BioRecon indicated a severely impaired biological community. All 3 biological indicators failed thresholds established for a healthy aquatic wildlife community:

Biometrics	Value	Thresholds	Nearby Background
Taxa Richness	16	≥24	43
Florida Index	5	≥22	27
EPT	1	≥17	20

The stream community was severely limited by iron rich pollutants. A profuse bloom of iron/sulfur bacteria covered the stream, producing a sheen that covered much of the water surface. Iron/sulfur bacteria smothered 99% of the aquatic habitats, which eliminated the stream's wildlife diversity and productivity. These bacteria and the associated precipitated iron smother the gills and bodies of the fish and wildlife. No fish were observed however; shiners and madtoms were common in background at the near by Pipeline Branch. Anaerobic sediments filled the stream channel to a depth of 0.3 meters (1 foot) or more in the 100-meter sample reach. The stream was very turbid after disturbance, and the orange colored flocculent sediments re-suspended rapidly in the water column. During rainfall events the turbidity, iron and sediment pollution load will be transported down to Mitchell Creek, Escambia River and eventually into Escambia and Pensacola Bay. Iron is a contributor for algal blooms in marine waters. Both Bays have experienced a fish killing red tide bloom for the in past.

Excessive iron loading may be a factor. The dissolved oxygen was low (5.48 mg/l & 55% saturation {background = 8.3 mg/l & 84%}) due to excessive organic loading caused by the iron rich pollution. The low 55% oxygen saturation would result in violation of Florida's Class III Waters dissolved oxygen standard of 5 mg/l during the warmer summer season. Three species of salamanders were observed in the beech-magnolia forest seepage slope streams. The Florida Committee on Rare and Endangered Plants and Animals lists the seal salamander as rare. The seal salamander has only been found in Florida from 5 near by small Beech-Magnolia forest spring-seepages. Camp Five Branch should be surveyed as possible seal salamander habitat.



### Conclusions

The Camp Five Branch site did not meet Class III State Water Quality Standards 62-302 for recreation and the propagation and maintenance of a healthy, well-balanced population of fish and wildlife. The iron/sulfur bacteria and chemical leachate effects from the landfill contributed to this stream not meeting State designated use. Organic sediment and nutrient loading from the landfill's groundwater discharge reduced the dissolved oxygen below the background site at the near by Pipeline Branch. During warmer months, the low % oxygen saturation, chemical and biological oxygen demand will deplete the oxygen concentrations below State Water Quality Standard of >5 mg/l. The iron/sulfur bacteria bloom and organic deposition smothered the wildlife habitat impairing the stream's fish and wildlife nursery function. Leachate affects from the Camp Five landfill negatively impacts Mitchell Creek, Escambia River, and Pensacola Bay's fish and wildlife. Isolating the landfill leachate onsite would prevent contaminants from migrating to State Waters through natural springs at the site. Restoration of the stream's natural hydrology (i.e. flow, depth) and preserving riparian wetland forests buffer zones would benefit the watershed's fish and wildlife. For more information, contact Donald Ray, FDEP Northwest District, 160 Governmental Center, Pensacola, FL 32501 (850) 595-8300 x1126 or SC 695-8300

**APPENDIX D**  
**HISTORIC AERIAL PHOTOGRAPHS**

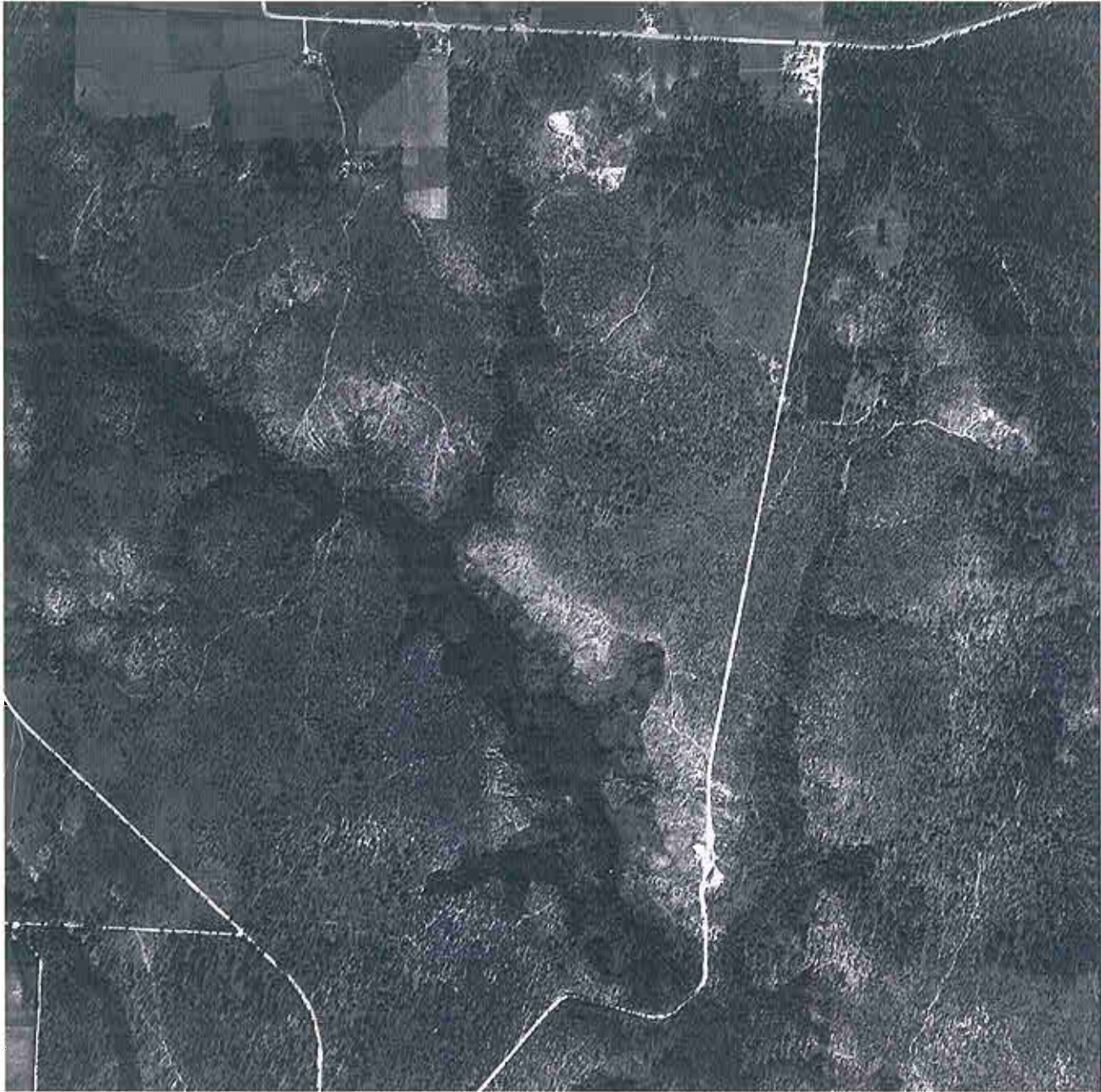
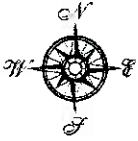


# Environmental FirstSearch

Historical Aerial

1940

SECTION 1 - CENTURY FL 32535



Source:  
Target Site (Latitude: 30.936736 Longitude: -87.375807)  
Quad Name: Bratt  
Date: 1940

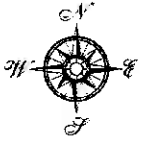
Approximate Scale: 1 inch equals 1,125 feet

# Environmental FirstSearch

Historical Aerial

1940/1941 - Composite Image

**SECTION 2 - MC DAVID FL 32568**



**Source:**

Target Site (Latitude: 30.936755 Longitude: -87.354948)

Quad Name: Century

Date: 1940/1941 - Composite Image

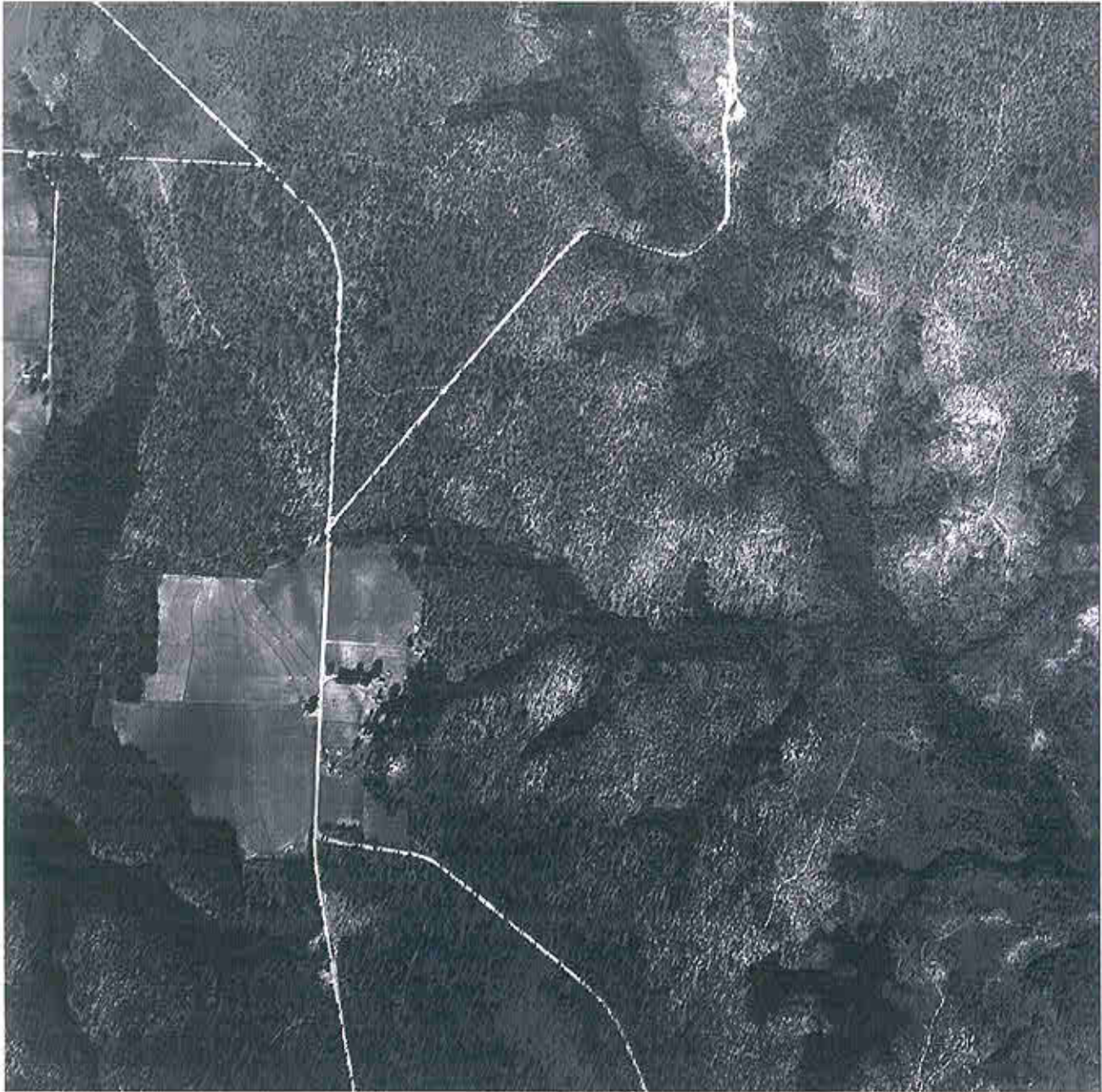
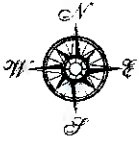
Approximate Scale: 1 inch equals 1,125 feet

# Environmental FirstSearch

Historical Aerial

1940

SECTION 3 - MC DAVID FL 32568



**Source:**

Target Site (Latitude: 30.92157 Longitude: -87.375866)

Quad Name: Bratt

Date: 1940

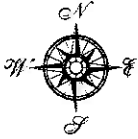
Approximate Scale: 1 inch equals 1,125 feet

# Environmental FirstSearch

Historical Aerial

1940/1941 - Composite Image

**SECTION 4 - MC DAVID FL 32568**



**Source:**  
Target Site (Latitude: 30.921659 Longitude: -87.355096)  
Quad Name: Century  
Date: 1940/1941 - Composite Image

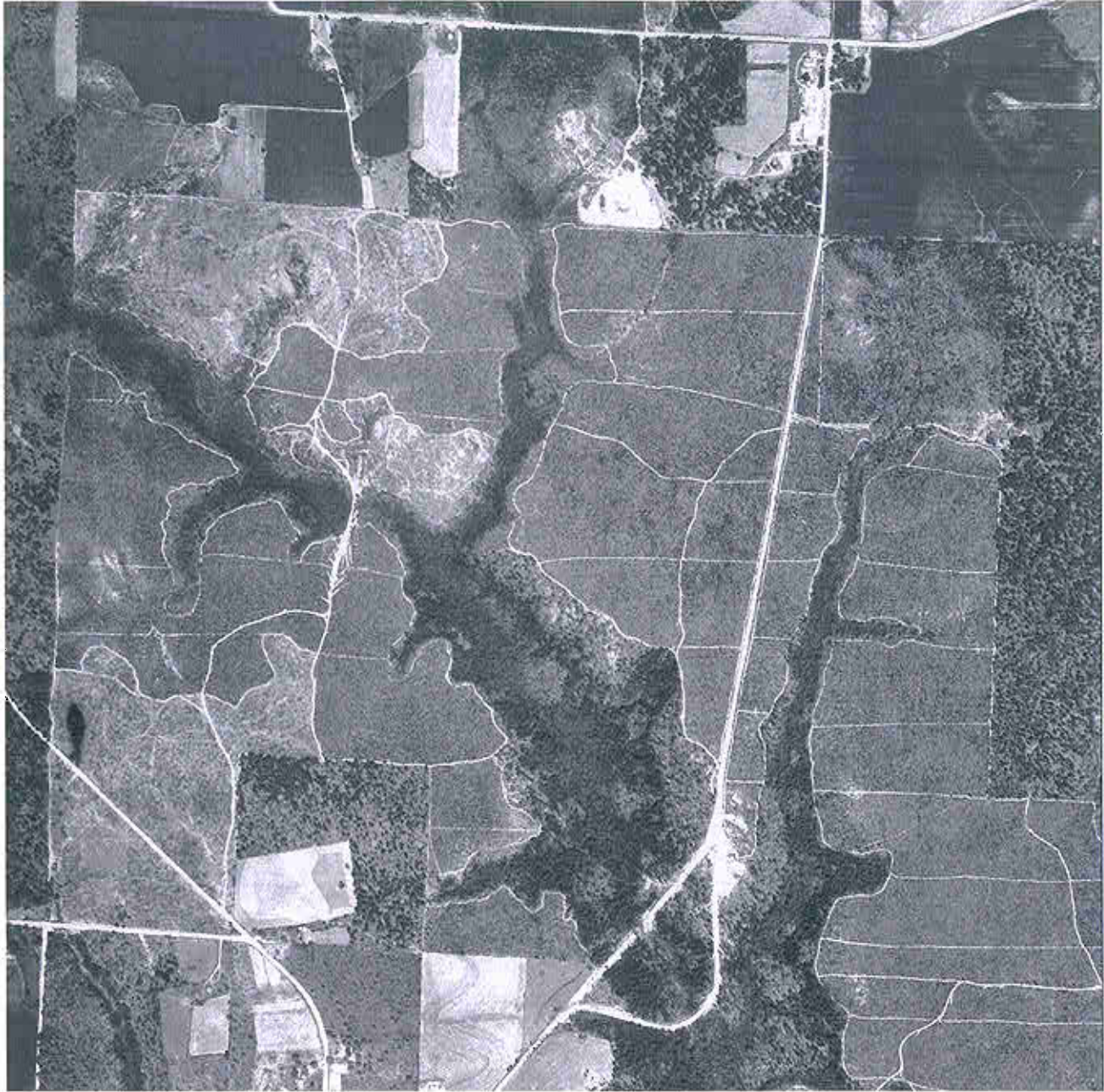
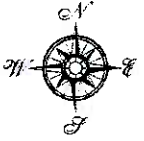
Approximate Scale: 1 inch equals 1,125 feet

# Environmental FirstSearch

Historical Aerial

1970

SECTION 1 - CENTURY FL 32535



Source:  
Target Site (Latitude: 30.936736 Longitude: -87.375807)  
Quad Name: Bratt  
Date: 1970

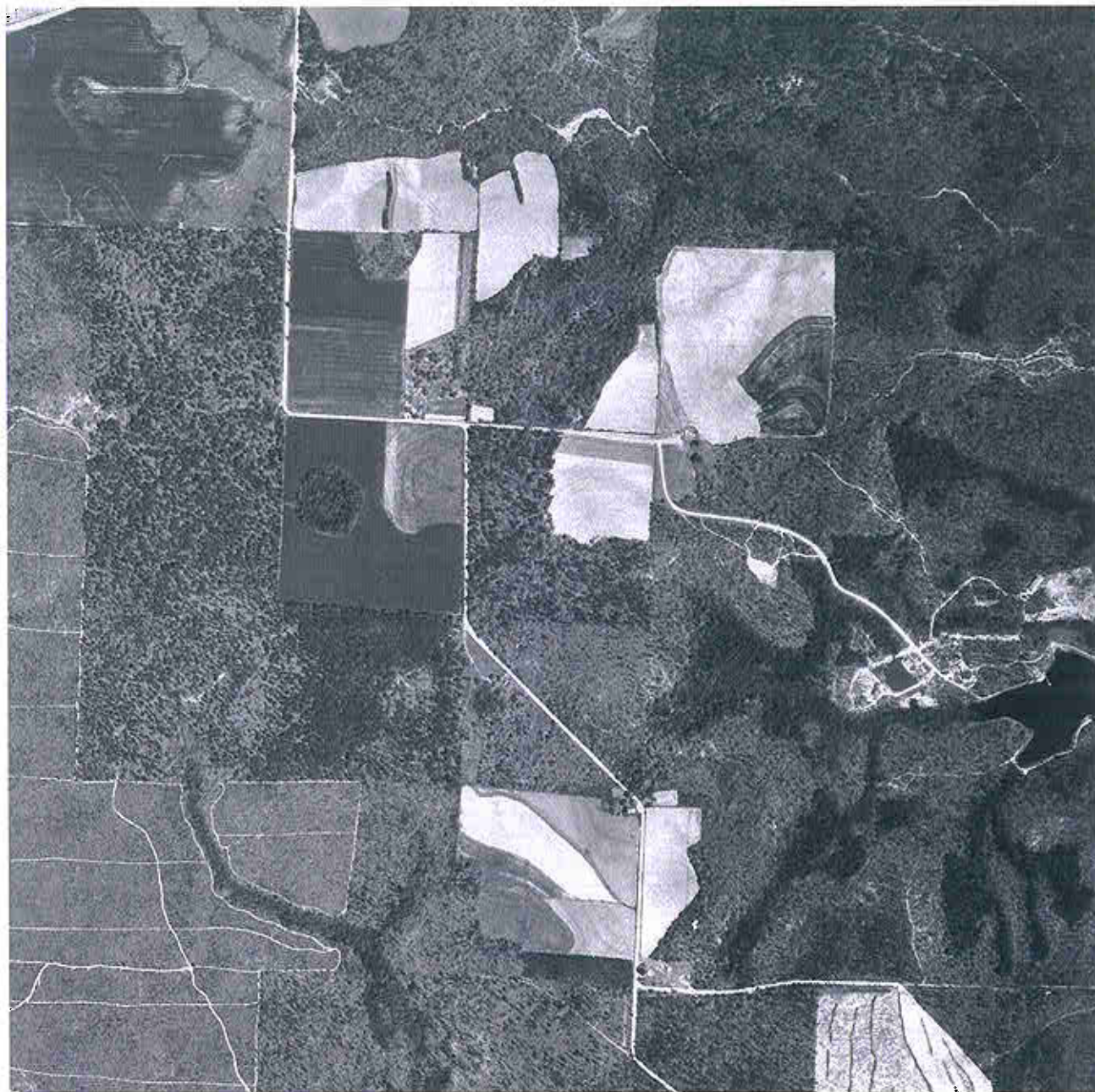
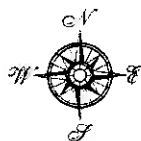
Approximate Scale: 1 inch equals 1,125 feet

# Environmental FirstSearch

Historical Aerial

1970

SECTION 2 - MC DAVID FL 32568



Source:  
Target Site (Latitude: 30.936755 Longitude: -87.354948)  
Quad Name: Century  
Date: 1970

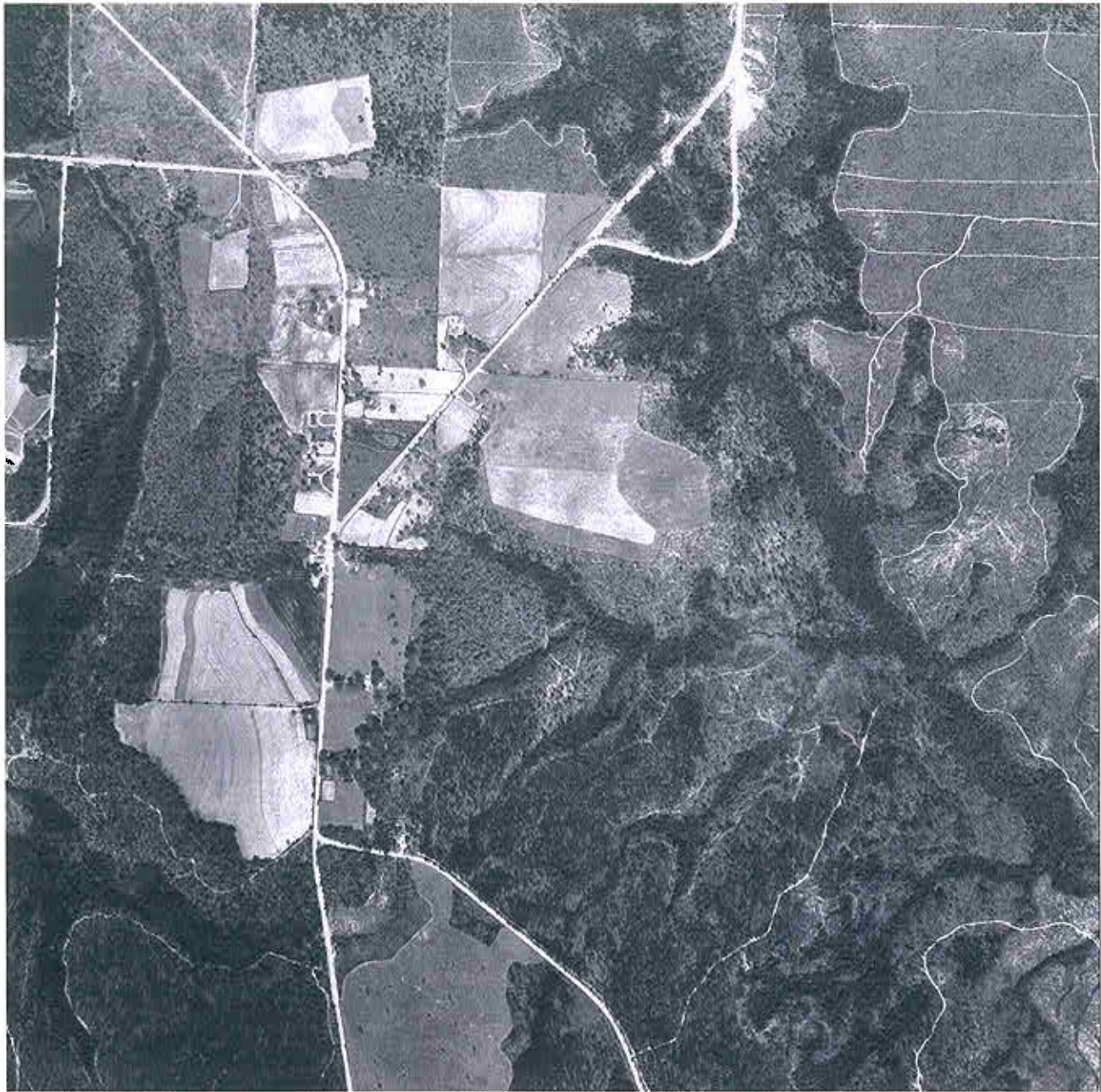
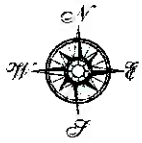
Approximate Scale: 1 inch equals 1,125 feet

# Environmental FirstSearch

Historical Aerial

1970

SECTION 3 - MC DAVID FL 32568



**Source:**

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Quad Name: Bratt

Date: 1970

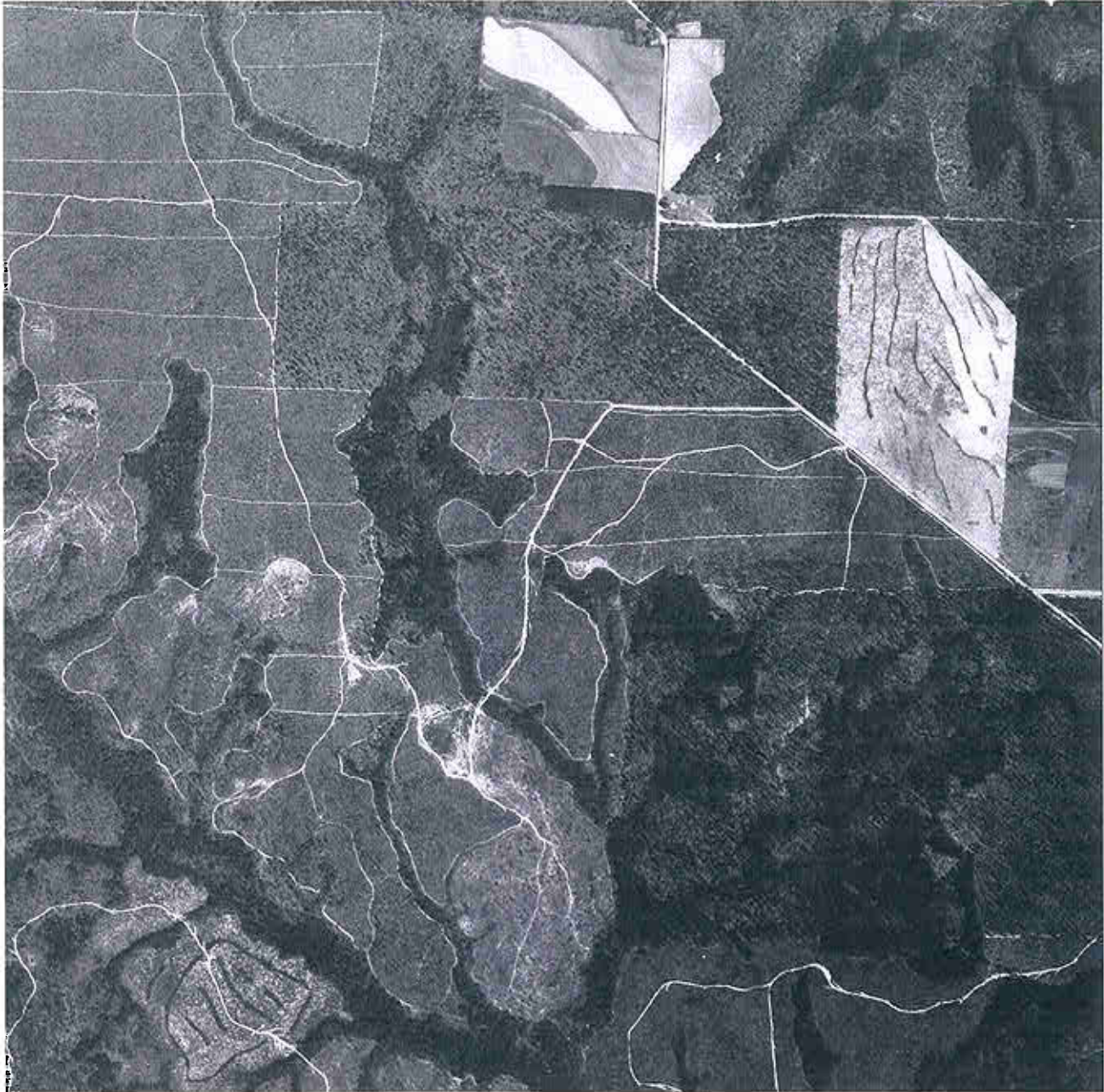
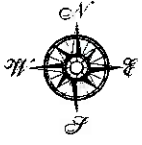
Approximate Scale: 1 inch equals 1,125 feet

# Environmental FirstSearch

Historical Aerial

1970

SECTION 4 - MC DAVID FL 32568



**Source:**

Target Site (Latitude: 30.921659 Longitude: -87.355096)

Quad Name: Century

Date: 1970

Approximate Scale: 1 inch equals 1,125 feet

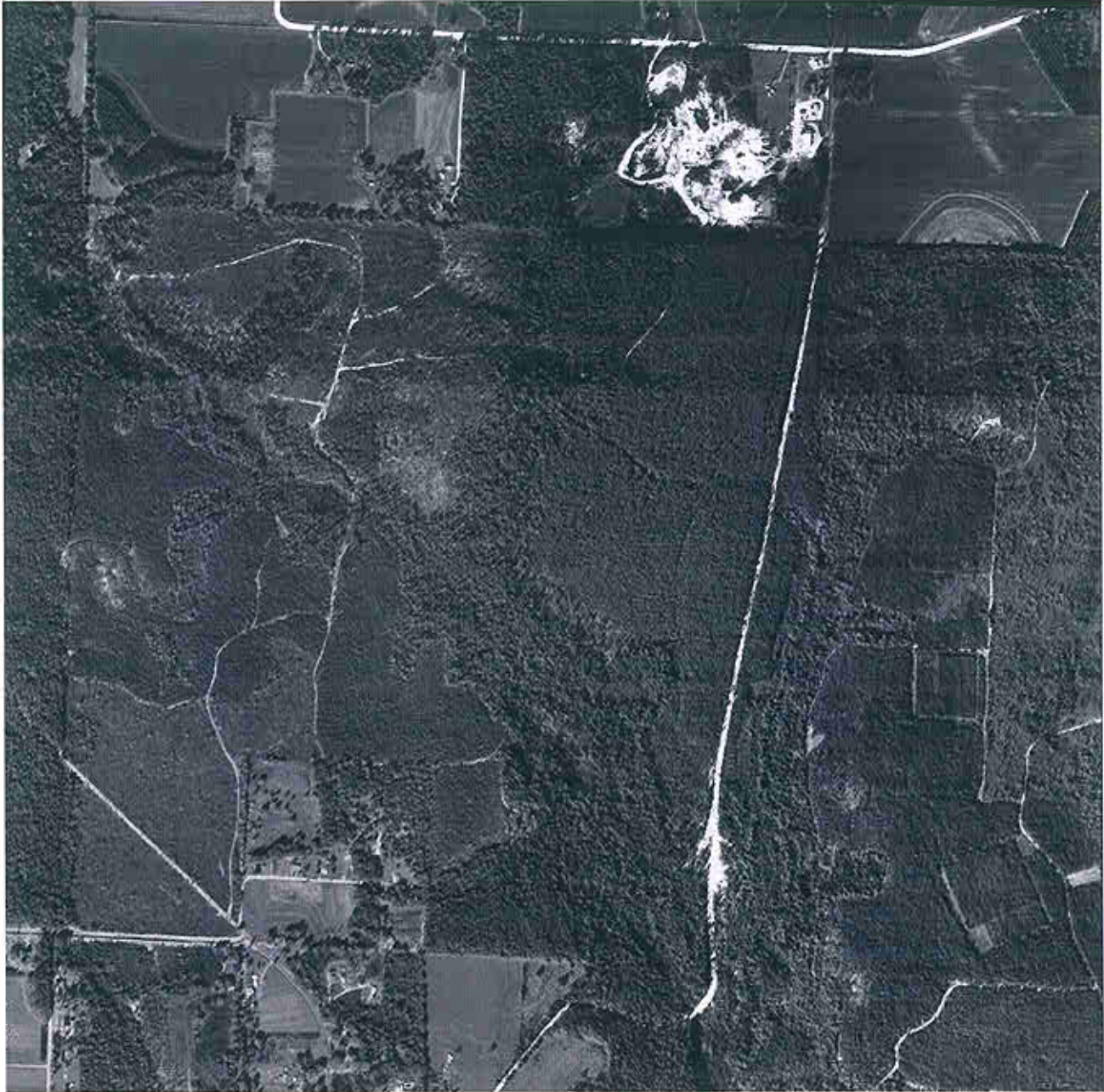
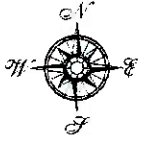


# Environmental FirstSearch

Historical Aerial

1999

SECTION 1 - CENTURY FL 32535



**Source:**

Target Site (Latitude: 30.936736 Longitude: -87.375807)

Quad Name: Bratt

Date: 1999

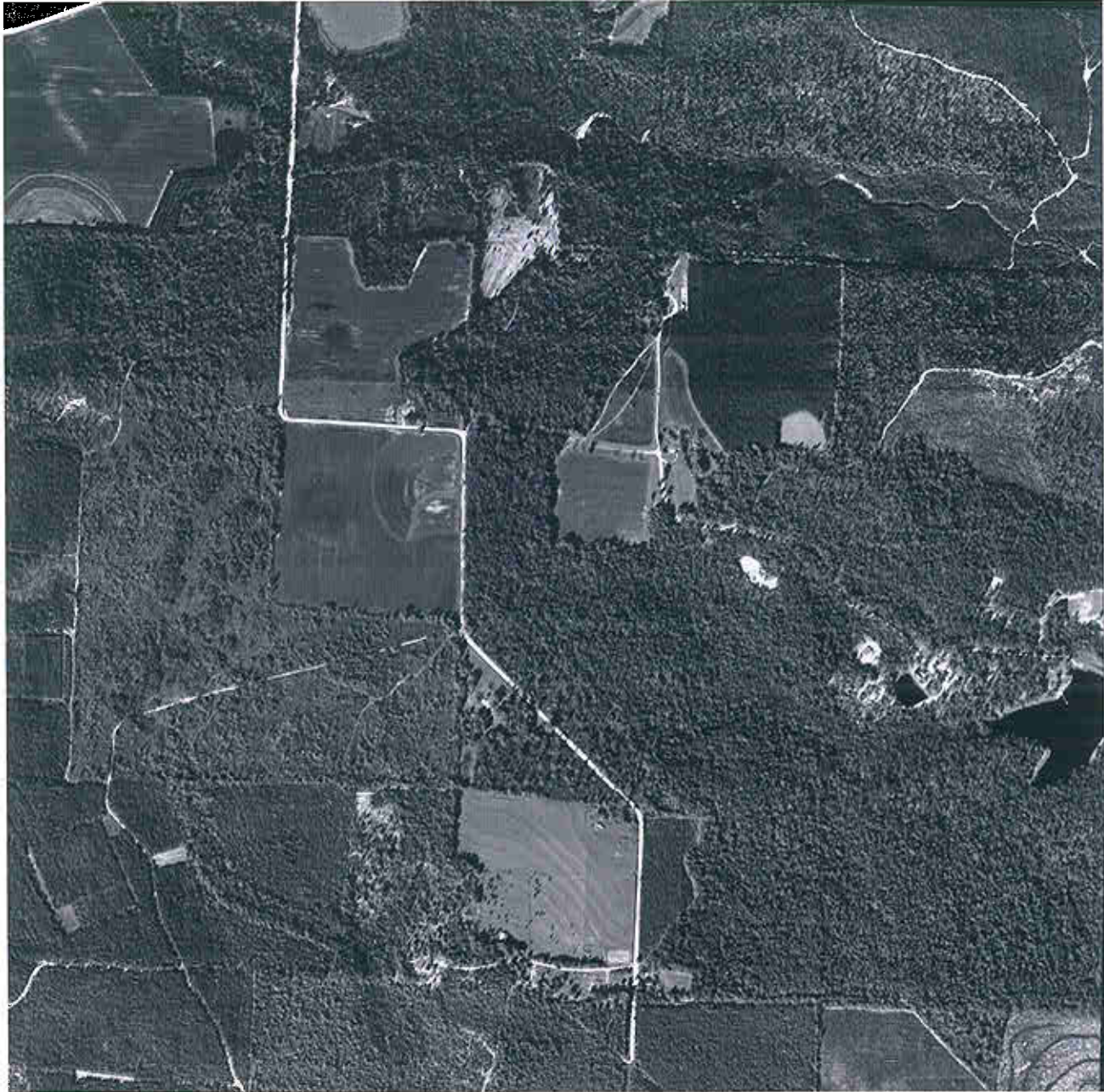
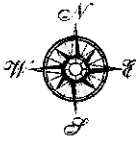
Approximate Scale: 1 inch equals 1,125 feet

# Environmental FirstSearch

Historical Aerial

1999

**SECTION 2 - MC DAVID FL 32568**



**Source:**

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Quad Name: Century

Date: 1999

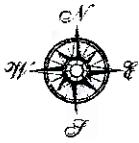
Approximate Scale: 1 inch equals 1,125 feet

# Environmental FirstSearch

Historical Aerial

1999

SECTION 3 - MC DAVID FL 32568



**Source:**

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Quad Name: Bratt

Date: 1999

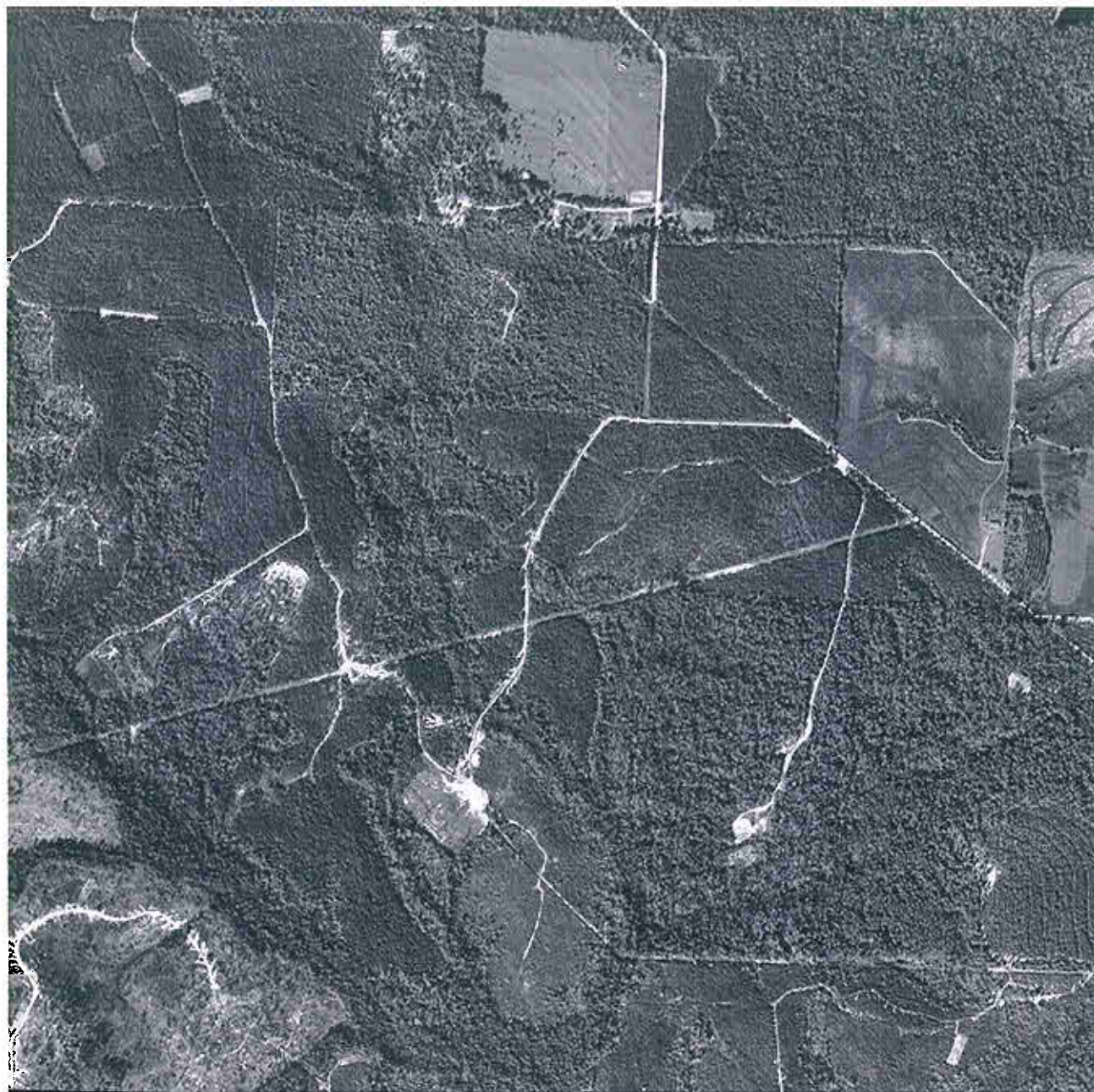
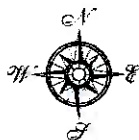
Approximate Scale: 1 inch equals 1,125 feet

# Environmental FirstSearch

Historical Aerial

1999

SECTION 4 - MC DAVID FL 32568



**Source:**

Target Site (Latitude: 30.921659 Longitude: -87.355096)

Quad Name: Century

Date: 1999

Approximate Scale: 1 inch equals 1,125 feet

**APPENDIX E**  
**SITE PHOTOGRAPHS**



Photograph No. 1. View, looking north, from the air, of the property located along Camp Road, in northern Escambia County, Florida.



Photograph No. 2. View, looking north, from the air, of the northern portion of the subject property located along Camp Road, with the former landfill visible along the northern property boundary.



Photograph No. 3.

View, looking north, from the air, of the southern portion of the subject property, showing the typical ground cover of the subject property.



Photograph No. 4.

View, looking northeast, from the air, of the southeastern portion of the subject property, with pipeline, unimproved roadways, and feed plots.



Photograph No. 5. View, looking southwest, from the air, of the southwestern corner of the subject property.



Photograph No. 6. View, looking northwest, from the air, western adjacent properties.





Photograph No. 7. View, looking northeast, from the air, of the northern adjacent parcels along Old Bratt Road.



Photograph No. 8. View, looking southwest, from the air, of eastern adjacent residential parcels.



Photograph No. 9. View, looking north, from the air, of the proposed weather tower location on the northern portion of the subject property.



Photograph No. 10. View, looking north, from the air, of the Escambia County Road Department facility and borrow pit on the northern adjacent property.



Photograph No. 11. View, looking north, from the air, of the former landfill (cleared area) and borrow pit located on the northern adjacent property.



Photograph No. 12. View, looking northwest, of southeastern property boundary along Cox Road.



Photograph No. 13. View, looking south, of Camp Road on the northern portion of the subject property.



Photograph No. 14. View, looking west, of one of the many access roads located on the subject property.



Photograph No. 15. View, looking southeast, of Mitchell Creek crossing Camp Road.



Photograph No. 16. View, looking northwest, of Mitchell Creek before crossing Camp Road.



Photograph No. 17. View, looking northwest, of Mitchell Creek on the northwestern portion of the subject property.



Photograph No. 18. View, looking north, of a pile of bricks observed along one of the unpaved roadways adjacent to Mitchell Creek on the northwestern portion of the subject property.



Photograph No. 19. View, looking east, of one of Mitchell Creek's eroded gully areas, located on the southeastern portion of the subject property.



Photograph No. 20. View, looking northeast, of the cleared pipeline, located on the southern portion of the subject property, with a hunt stand and feed plot visible.



Photograph No. 21. View, looking southwest, from Cox Road, of the cleared pipeline, located on the southern portion of the subject property.



Photograph No. 22. View of a feed drum located near one of the hunt stands on the subject property.





Photograph No. 23. View of the cleared area around the proposed weather tower location on the northern portion of the subject property.



Photograph No. 24. View, looking south, of the northern adjacent former landfill.



Photograph No. 25. View, looking east, of the northern adjacent borrow pit.

**APPENDIX F**  
**QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS**



**KATHRYN A. KITANOVSKI**  
**Senior Associate Scientist I**

**Education**

B.S., Environmental Science—  
University of Oregon, 2001

**Registrations**

OSHA 40-hour hazardous waste  
operations and emergency re-  
sponse training

**Areas of Specialization**

Hydrogeology, Statistical and Data  
Analysis, Well Water Sensitivity  
Analysis, Soil and Ground Water  
Sampling and Analysis, Watershed  
Studies, Contamination Assess-  
ment and Remediation, Remedia-  
tion System Operation and Main-  
tenance, Phase I and II Environ-  
mental Site Assessments

**Project Manager; Phase II Environmental Site Assessment (ESA), Confidential Client**—Conducted ground water characterization at a site in Orange County, Florida, to determine whether subsurface impacts were present due to the historical usage of surrounding properties as citrus groves, potential impacts from heating oil due to the age of the onsite structure, potential impacts from nearby petroleum-impacted site, and potential impacts from an adjacent dry cleaning facility. Responsible for all aspects of the project including scope of work planning, proposal writing, field work and subcontractor coordination, and reporting, including continual updates to the client. Completed work within a narrow timeframe due to the nature of the assessment and the reason for performing the work.

**Project Manager/Environmental Auditor; Various Sites, The Nature Conservancy**—Responsibilities included proposal writing and budgeting, review of historical records, such as aerial photographs, city directories, fire insurance maps, property appraiser information, and chain-of-title records. Conducted interviews, regulatory database reviews, and onsite inspections; documented all findings in report.

**Project Manager; Remedial Action, Florida Department of Environmental Protection (FDEP) Preapproval Program**—Responsible for all aspects of project including initial and supplemental assessments of petroleum-impacted sites, remedial action planning, source removal, pilot testing, remedial system design and construction, startup, operation/maintenance, post active remediation ground water monitoring, through site completion at various sites in Orange, Volusia, Polk, Osceola, and Citrus Counties.

**Project Manager; Baseline Environmental Site Assessment, Nicholson Supply Company**—Conducted ground water characterization to determine baseline environmental conditions at lumber yards in Polk and Hardee Counties, Florida. Additional services conducted after baseline sampling including a historical document and regulatory database review to determine potential off-site sources and receptors for contamination.

**Associate Scientist; Contamination Assessment and Remediation Efforts, Confidential Client**—Assisted in various aspects of a contamination assessment at a major industrial dry cleaning facility located Lake Buena Vista, Florida. The contamination assessment was conducted under a consent order from FDEP. Tetrachloroethene and its associated degradation products were identified in soil and ground water samples collected at the site. The groundwater chlorinated solvent plume was delineated and found to be restricted to the surficial aquifer. Responsibilities included technical field activities, operation and maintenance of onsite groundwater recovery system, and reporting.

**Associate Scientist; Site Assessment Activities, Daytona Beach International Airport**—Assisted with technical field aspect of initial and supplemental site assessment of petroleum impacted soil and ground water. Coordinated activities of various subcontractors including drillers, mobile laboratories, fix-based laboratories, and disposal services. Responsible for all reporting aspects associated with field activities. Conducted a historical document review and regulatory database search to identify potential on- and offsite sources and/or receptors for contamination. Responsible for coordination, planning, and implementation of ongoing work.

**Project Manager/Environmental Auditor; Kenansville Ranch, Fellsmere, Indian River County, Saunders Real Estate, LLC**—Responsibilities in-

cluded review of historical records, such as aerial photographs, city directories, fire insurance maps, property appraiser information, and chain-of-title records. Conducted interviews, regulatory database reviews, and onsite inspections of various properties throughout central Florida. Documented all findings in report.

**Associate Scientist, Administrative Support; Lockout/Tagout Procedure Creation and Implementation, Universal Orlando**—Assisted with writing and inputting of lockout/tagout procedures, data entry, and project development tracking.

**Associate Scientist; Toxic Release Inventory (Form R), 2003 and 2004, TPS/Tenaska**—Responsible for preparation of Form R reports in accordance with EPA's community right-to-know requirements for several facilities located in Hardee County, Florida; New Church, Virginia; and Hilo, Hawaii. Projects included conducting a threshold determination analysis, performing calculation for chemical release estimation, and preparation of EPA's Form R reports.

**Associate Scientist; Tier Two Reporting, TECO Power Services Corporation (TPS)/Tenaska**—Responsible for preparation of the Tier Two reports for numerous facilities in accordance with EPA's community right-to-know requirements as required by Title III of the Superfund Amendments and Reauthorization Act of 1986. Power plant facilities were Gila River Power Station in Gila Bend, Arizona; Hamakua Energy Partners in Hilo, Hawaii; Union Power Station and Union water treatment plant in El Dorado, Arkansas; Hardee Power Station in Hardee County, Florida; Commonwealth Chesapeake Power Station in New Church, Virginia; Dell Power Station in Dell, Arkansas; Frontera Power Station in McAllen, Texas; McAdams Power Station in McAdams, Mississippi; Buffalo Mountain Energy Center in Oliver Springs, Tennessee; and Nelson Energy Center in Rock Falls, Illinois. Projects included preparing the Tier Two forms for submittal to the state emergency response commission, the local emergency planning commission, and the local fire departments.

**Associate Scientist; Lithologic Logging and Ground Water Profiling, Confidential Client**—Led field activities at a site in Orange County, Florida. Services included lithologic logging, piezometer and monitoring well installation, ground water flow determination, ground water profiling, ground water sampling and analysis, and aquifer classification utilizing Shelby tubes and slug testing technologies.

**Project Manager; Natural Attenuation Monitoring, FDEP Preapproval Program**—Responsible for proposal writing, budgeting, scheduling field work, documents review, and report preparation in association with natural attenuation monitoring at The Pantry No. 6264 facility, a petroleum-contaminated remediation site in Lake County, Florida

**Associate Scientist; Remedial System Operation and Maintenance of Dry Dock System, Confidential Client**—Taking monthly, quarterly, and annual measurements on dry dock system function at a facility in Orange County, Florida. Perform system maintenance. Perform periodic sampling and analysis. Update tables and figures based on analytical results. Prepare quarterly report on system function and remedial success.

**Associate Scientist; Phase I ESAs, The Nature Conservancy**—Responsibilities included review of historical records, such as aerial photographs, city directories, fire insurance maps, property appraiser information, and chain-of-title records. Conducted interviews, regulatory database reviews, and onsite inspections of various properties throughout central Florida. Documented all findings in report.

**Associate Scientist; Limited Contamination Assessment, Jonathan's Landing Golf Course**—Reviewed reports prepared for the golf course in Martin County, Florida, conducted by previous consultants. Used data collected in the field to prepare tables and figures, reported findings and recommendations, and prepared report in accordance with current standards and practices.

**Associate Scientist; Preliminary Contamination Assessment, Seminole Electric Cooperative, Inc.**—Performed records review for Payne Creek gas separating facility in Hardee County, Florida. Presented results of soil screening, soil sampling, and ground water sampling in preliminary contamination assessment report. Created tables and figures for report. Analyzed results for recommendations.

**Associate Hydrogeologist; Oregon Health Division, Drinking Water Program**—Conducted hydrological studies, watershed assessments, well water contamination assessments, and data analysis. Compiled information from various sources into technical reports. Utilized GIS and computer software to create maps for reports. Mathematically delineated ground water flow and *time of travel*.

**Research Assistant; University of Oregon, Department of Molecular Biology**—Assisted in growing of plants used in laboratory research. Cataloged seeds in seed bank. Selected specific strains of plants to be crossed. Took tissue samples of seedlings with mutations. Hand pollinated plants to be crossed for research. Harvested, dried, seeded, and stored plants at end of growing season. Added seeds to seed bank for use in next round of crossing.

**Education**

B.S., Biology—Cornell University, 1975  
Graduate Study, Urban and Regional Planning—Florida State University, 1990

**Registrations**

American Institute of Certified Planners  
Certified Florida Environmental Assessor

**Affiliations**

Florida Environmental Assessors Association (past president)

**Areas of Specialization**

Planning and Socioeconomic Aspects of Site Certification Applications and Certificate of Public Convenience and Necessity Applications, Comprehensive Plan Amendments, Phase I/II Environmental Site Assessments and Other Due Diligence Investigations, Peer Review, Expert Witness

**Project Manager; Phase I ESA, Phase II ESAs, Remedial Actions – Southwest Florida Water Management District** – Completed numerous phase I ESAs throughout the District. Assessed potential contamination associated with cattle pens, cattle dipping vats, and other agricultural activities. Conducted many peer reviews of due diligence documents preparing detailed review letters.

**Project Manager; Transaction Screen Processes, Phase I and II ESAs, Numerous Banks and Lenders in the Tampa Bay Area**—Performed Phase I/II ESAs on properties ranging from day care centers to automobile repair facilities in the Tampa Bay area of Florida. Performed reviews of phase I ESA reports and prepared detailed review letters.

**Project Manager; Site Assessment, Hunt Douglas Real Estate** – Conducted site assessment activities and achieved and completed a Natural Attenuation Monitoring Program for petroleum contamination on a previously abandoned site. Approval required review of over 6 years of decontamination and development of acceptable work plans for two regulatory agencies.

**Project Manager; Due Diligence Assessment, Confidential Client** – Reviewed all of the documentation associated with a known contaminated metal salvage yard and conducted interviews in order to advise a prospective purchaser of business and environmental risks.

**Project Manager; Phase I ESAs, The Trust for Public Land**—Performed Phase I ESAs of many large-acre, undeveloped tracts for public acquisition for The Trust for Public Land throughout Florida. Conducted a Phase I ESA of a 3,800-acre tract in Pasco County. Subsurface investigations were conducted on two onsite landfill areas. Performed Phase I/II ESAs for proposed rails-to-trails projects in Leesburg, Sarasota County, and St. Petersburg, Florida.

**Project Manager; Phase I ESAs, Verizon Wireless**—Completed many Phase I ESAs throughout Florida for proposed retail stores. Coordinated Phase I ESA efforts with other Florida ECT offices while maintaining consistency of the Phase I ESA reports.

**Project Manager; Phase I ESAs, Florida Power & Light**—Supervised the completion of Phase I ESAs of six wind turbine sites. Sites in McCamey, Upton, and Crockett Counties, Texas (107 turbines and an operation and maintenance [O&M] building); Hancock County, Iowa (148 turbines and an O&M building); Cerro Gordo County, Iowa (55 turbines and an O&M building); Iowa County, Wisconsin (20 turbines and an O&M building); and Pipestone County, Minnesota (138 turbines and an O&M building) were developed. One site in Solano County, California, was a proposed site of up to 90 turbines spread across approximately 5,983 acres. The Phase I ESAs consisted of site visits accompanied by knowledgeable personnel, database records searches including available aerial photography searches, a search of other available standard historical sources, review of prior available reports, and preparation of reports. All of the investigations and reports were delivered on time and on budget. ECT coordinated the work effort using the resources of the Tampa and Michigan offices.

**Project Manager; Phase I ESAs, FPL Energy**—Supervised the completion of six Phase I ESAs and three Phase I ESA updates of nine existing wind turbine sites in seven states. A tenth Phase I ESA was conducted of an approx-

imately 10-mile long transmission corridor as part of the same project. The sites consisted of:

- A 38-turbine site in Umatilla County, Oregon.
- A 27-turbine site, an operations and maintenance (O&M) building, and an electrical substation facility near Highmore, South Dakota.
- A 44-turbine and O&M building site in Tucker County, West Virginia.
- A 68-turbine and O&M building site near Woodward, Oklahoma.
- A 43-turbine and O&M building site in Lackawanna and Wayne Counties, Pennsylvania.
- A 41-turbine, an O&M building, and an electrical substation facility near Edgeley, North Dakota.
- A 20-turbine and O&M building site in Somerset, Pennsylvania, and
- An 80-turbine site, an O&M building, and an electrical substation facility near Evanston, Wyoming.

The Phase I ESAs and updates consisted of site visits accompanied by knowledgeable personnel, database records searches including available aerial photography searches, a search of other available standard historical sources, review of prior available reports, and preparation of reports. All of the investigations and reports were delivered on time and on budget. ECT coordinated the work effort using the resources of the Tampa and Michigan offices.

**Project Manager and Principal Scientist; Hendry Ranch, Carlyle Investments**—Completed Phase I and II ESA, site assessment, and source removal in Hillsborough County, Florida. Detected contamination at cattle dipping vat associated with arsenic and at cattle pen area associated with organochlorine pesticides. Oversaw source removal activities.

**Project Manager; Phase I and II ESAs, City of St. Petersburg and Pinellas County Real Estate**—Performed Phase I and II ESAs for developed and undeveloped properties in Pinellas County, Florida.

**Project Manager and Senior Scientist; Phase I ESAs, Baseline Natural Resource Inventories and Range Analyses, Southwest Florida Water Management District (SWFWMD)**—Performed environmental assessments and natural resource inventories for over 15 properties throughout Florida ranging in size from 35 acres to nearly 2,000 acres. Performed additional Phase I ESAs on properties up to 27,000 acres in size.

**Project Manager; Phase I, II, and III Environmental Services, Confidential Client**—Performed Phase I, II, and III environmental services for a 200,000-square-foot manufacturing facility in Sarasota County, Florida.

**Project Manager; Phase I ESA, Confidential Client**—Conducted a Phase I ESA of a 2,750-acre actively cultivated agricultural property in Manatee County, Florida. Noncompliance issues were identified with numerous above-ground storage tanks.

**Project Planner; Phase I Environmental Site Assessment (ESA), Sargent & Lundy**—Due diligence investigations of an approximately 3,200-acre property in Taylor County, Florida, proposed for development as a solid fuel power plant. Prepared a comprehensive plan text amendment and amendment to the Future Land Use Map. Provided oversight of subcontractors for roadway/railroad alternatives and archaeological/historical resource surveys. Pre-



pared land use and socioeconomic portions of site certification application (SCA).

**Project Manager and Senior Scientist, Preliminary Contamination Assessment, Confidential Client**—Conducted soil and ground water investigations in support of an application to construct on a former landfill in Tampa, Florida. Oversaw geotechnical and civil engineering firms in preparing and submitting the application to a local regulatory agency.

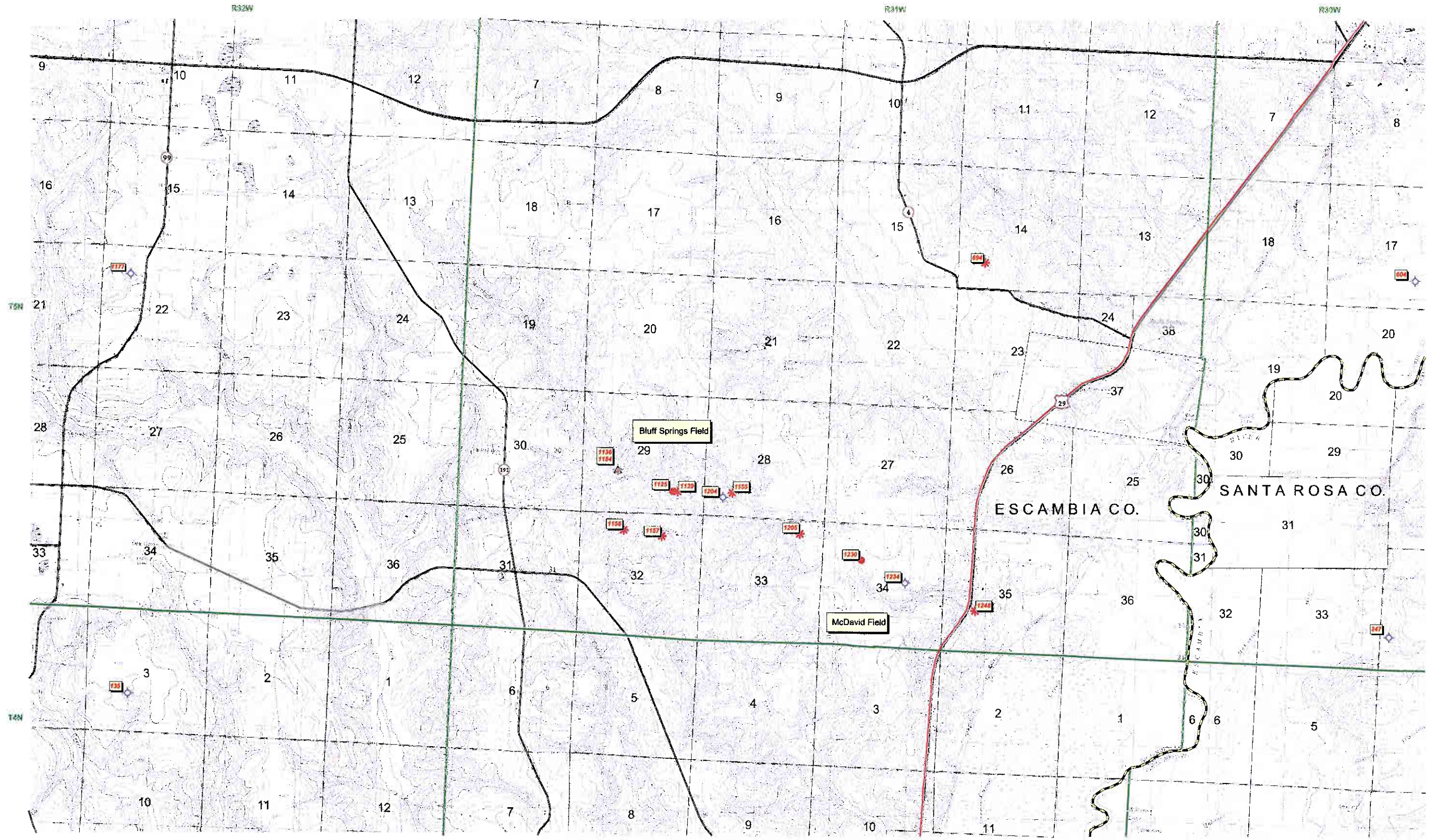
**Project Manager, Phase II ESA and Support Consulting Services, Hillsborough County**—Conducted soil testing and construction oversight of a roadway construction project in that area adjacent to a former city of Tampa landfill.

**Project Assessor; Lowe's Home Improvement Center**—Phase I and II ESA, permitting for construction on a former landfill, and post-construction monitoring in Tampa, Florida. Assessed extent of impact associated with the burial of solid waste. Oversaw post-construction monitoring of landfill gas generation and ground water.

**Project Manager; Site Assessment, Business Communities, L.L.C.** - Conducted source removal activities and site assessment to achieve a Natural Attenuation Monitoring Plan approval through Pinellas County, Florida.

**APPENDIX G**

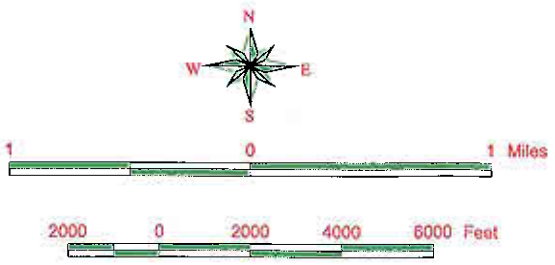
**HISTORIC OIL AND GAS WELLS MAP**



**OIL & GAS INDEX MAP**

Regional Maps	Field Inset Maps
1 Panhandle	15 Jay & M. Carmel
2 Tallahassee	16 Blackfoot Creek
3 Volusia	17 Labagh Park, Lake Trafford & Coonsway
4 Jacksonville	18 West Fields & M&F Fields
5 Apalachicola	19 Sunnivald, Sunoco Fields & Townsend Canal
6 Daytona Beach	20 Seminole
7 West City	21 Bear Island & Pepper Hammock
8 Orlando	22 Ft. Mill Bend
9 Tampa	23 Sweetwater Creek & McLehan Beach
10 Fort Pierce	24 Baxter Island
11 West Palm Beach	25 Rapson Pate
12 Key West	26 Bluff Springs & McDavid

See Field Inset Maps 15, 16, 23 & 26  
See Field Inset Maps 17-21, 24 & 25  
See Field Inset Maps 22 & 25



**Bluff Springs & McDavid - Sheet 26 of 26**

Florida Geological Survey - Map Series 6  
Regional Oil & Gas Well Location Maps

**Key to Features**

◊ Dry Hole	* Never Drilled	▬ County Lines
● Producer	✕ Junked Hole	▬ Interstates
▲ Salt Water Disposal	○ Surface Location	▬ US Highways
● Water Injection Well	SH: Surface Hole	▬ State/County Roads
		▬ Township/Range Lines
		▬ Section Lines
		▬ Well Trace

**Notes:**  
[14] refers to the well numbering system. Well numbers may also be preceded by B, PP, W and WGI. Well locations reflect original not necessarily current locations.  
This map was created using FDEP databases, data obtained from the Florida Geological Survey (FGS) and scanned US Geological Survey 1:250,000 scale 8 1/2 maps. It was produced January, 2002 by the Florida Department of Environmental Protection, Division of Resource Management, FGS, GIS Sub-Section. This document was prepared for the presentation of the geographic (or hydrogeologic), etc. information shown and is not intended to replace site-specific or area-specific investigations. The FGS does not guarantee this document to be free from errors or inaccuracies and disclaims any responsibility or liability for inappropriate change of scale or interpretations or decisions based thereon.  
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