PHASE I ENVIRONMENTAL SITE ASSESSMENT
GAINESVILLE RENEWABLE ENERGY CENTER
GAINESVILLE, ALACHUA COUNTY, FLORIDA

PREPARED FOR:

Gainesville Renewable Energy Center

Gainesville, Florida

PREPARED BY:

ECT Environmental Consulting & Technology, Inc

1408 North Westshore Boulevard
Suite 115
Tampa, Florida 33607
(813) 289-9338
Facsimile: (813) 289-9388
www.ectinc.com

101084-0700
MARCH 2014

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1.0 SUMMARY

Environmental Consulting & Technology, Inc. (ECT) has conducted a phase I environmental site assessment (ESA) of the Gainesville Renewable Energy Center (GREC) facility and property located at 11201 NW U.S. 13th Street (also known as Highway 441 [Hwy 441]) in Gainesville, Alachua County, Florida, 32653 (subject property or subject site) in conformance with the scope and limitations of ASTM Practice E 1527-13 for Phase I ESAs. The subject property is approximately 130 acres in size and is developed with the GREC electrical power generating facility.

GREC is a privately-owned 116 megawatt (gross) biomass fueled electrical power generating facility located on a 130 acre leased parcel within the Gainesville Regional Utilities (GRU) Deerhaven Generating Station property. The plant began operation in September 2013.

The historical land use review indicates that the subject site was developed with two structures in the 1937 aerial photograph and one structure in the 1949 aerial photograph. The structures appear to have been agricultural-type buildings with pasture land located to the south. By 1957, the pasture area and the area of the buildings had been planted in pine. The GREC facility is under construction in the 2012 aerial photograph. The eastern adjacent property is part of the Deerhaven Generating Station, a 421-megawatt coal and natural gas-powered electrical power generating facility. The immediately adjacent facilities associated with the Deerhaven power plant are a stormwater treatment pond, a brine disposal area and an ash disposal/storage area. To the west are facilities of the Alachua County Public Works Department, to the north is undeveloped, wooded land, and to the south is Hwy 441 and commercial uses.

The subject property is identified as a Resource Conservation and Recovery Act (RCRA) Conditionally Exempt Small Quantity Generator (CESQG) of hazardous waste. To date, no hazardous wastes have been produced that require offsite disposal. A discharge was reported at the adjacent Deerhaven Generating Station associated with the removal of an underground storage tank (UST) in 1990. Remediation was completed. No discharges have been reported at the western adjacent Alachua County Public Works facility. None of the remaining offsite facilities listed on the environmental database report is likely to pose a significant threat to the environmental quality of the subject site.

A review of third and fourth quarter 2013 groundwater monitoring data indicates exceedances above background conditions for tested constituents. These exceedances are attributable to the operation of the Deerhaven Generating Station and the associated landfills/by-product storage areas and/or process ponds. The only exceedance detected in the groundwater samples collected from the perimeter wells on the GREC property is iron. Iron is not a concern as it is ubiquitous in the surficial aquifer in Florida at levels that exceed the cleanup target level. The concentrations of tested constituents appear to be consistent over time.

ECT has performed a phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-13. Any exceptions to, or deletions from, this practice are described in Section 11 of this report. A recognized environmental condition (REC) is associated with the groundwater contamination in the shallow aquifer beneath the subject site that has been impacted by the operation of the eastern adjacent Deerhaven Generating Station. No phase II ESA activities are recommended at this time to augment the groundwater data currently obtained facility-wide on an ongoing quarterly basis. No notices of violation (NOVs) or Warning Letters have been issued by the Florida Department of Environmental Protection (FDEP) that oversees compliance of the Deerhaven Generating Station.

2.0 INTRODUCTION

ECT has conducted a phase I ESA of the property located at 11201 NW Hwy 441 in Gainesville, Alachua County, Florida (Figure 1). The subject property is developed with the GREC biomass fueled electrical power plant. The property is located in an area of institutional, industrial, and commercial land uses and undeveloped land.

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 1527-13 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 1527-13.

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;
- 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. Bob Donahoe with the GREC facility; 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 the assessment of natural hazards such as naturally-occurring asbestos or methane gas or assessment of non-chemical hazards such as the potential for damage from earthquakes or floods. This phase I ESA does not include a health-based risk assessment or does it provide an assessment of the compliance of the facility.

2.6 User Reliance

This phase I ESA was conducted for the use and reliance by Gainesville Renewable Energy Center, LLC and may be relied upon only by this party. 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 at 11201 NW Hwy 441 in Gainesville, Alachua County, Florida. The subject property is approximately 130 acres in size and is developed with the GREC biomass fueled electrical power plant. The subject site is an irregularly-shaped parcel. A facility location map, site map, and site plan are provided as Figures 1, 2, and 2A, respectively.

The Alachua County Property Appraiser's Office information identifies the subject property under parcel identification number 05884-001-005. This parcel is owned by the City of Gainesville. The legal description of the property, provided in the Alachua County Property Appraiser's database, is provided in Appendix A.

3.2 Site and Vicinity General Characteristics

A site vicinity map and site map are presented as Figures 1 and 2, respectively. The adjacent properties are described as follows:

North: Undeveloped land.

East: Deerhaven Generating Station, specifically stormwater treatment ponds, a brine disposal area, and an ash disposal/storage area.

South: NW Hwy 441 and commercial uses including HD Supply Plumbing, HD Construction Supply, a carwash, retail shed sales and boat sales and storage.

West: Alachua County Public Works facilities, a radio tower and undeveloped land.

3.3 Current Use of the Property

The subject property is developed with the GREC biomass fueled electrical power plant.

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

3.4.1 General Description of Structures

The following describes the GREC facility, including structures:

The facility consists of a single biomass-fired steam boiler, a steam turbine/generation set, three hydraulic truck dumpers, a wood yard with wood management facilities, a diesel-fuel fired emergency generator, a diesel-fueled fire pump, a cooling tower, a zero liquid discharge water treatment system, baghouse and ash handling systems and potable and process water treatment systems. The power block occupies the northeastern portion of the property. A 23.5-acre conservation area (wooded land) is located in the northwest portion of the property. Three onsite wells provide process water (two wells) and potable water (one well) with reuse water from the town of Alachua providing the balance of the supply from an onsite water tank. Three primary stormwater ponds are located along the northern boundary of the property and two smaller stormwater ponds in the southern portion receive stormwater runoff.

3.4.2 Roads

Access onsite to the property is through a guarded gate from a paved road connected to Hwy 441.

3.4.3 Potable Water Supply

According to the site contact, GREC is provided potable water from an onsite well.

3.4.4 Sewage Disposal System

According to the site contact, sanitary wastewater is collected and pumped offsite to the GRU for offsite treatment and disposal.

3.5 Current Uses of the Adjoining Properties

The Deerhaven Generating Station is located to the east. The eastern adjacent property is developed with stormwater treatment ponds, a brine disposal area and an ash landfill/storage area. The southern adjacent properties are NW Hwy 441, a rail line and commercial uses south of NW Hwy 441. The western adjacent properties are undeveloped land, a radio tower and Alachua County Public Works facilities. The northern adjacent property is undeveloped.

4.0 USER-PROVIDED INFORMATION

This section identifies information provided by Mr. Robert Donahoe with GREC to ECT.

4.1 Title Records

No title records were provided to ECT by the Client or the property owner.

4.2 Environmental Liens or Activity and Use Limitations

Mr. Robert Donahoe 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?

Mr. Donahoe responded no to the first question. Mr. Donahoe answered the second question by indicating that a Conservation Easement was granted as a Condition of Certification for construction and operation of the GREC facility. This conservation area covers approximately 22.8 acres located in the northwestern portion of the property. No other land use limitations are known to exist.

4.3 Specialized Knowledge

Mr. Donahoe 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?

In regards to having specialized knowledge, Mr. Donahoe indicated that he has been associated with the permitting and construction of the power plant throughout the construction period starting before 2008 and through startup in 2013.

Mr. Donahoe stated that the property was previously used for silviculture (pine trees) and was never used for industrial purposes.

In regards to specific chemicals used onsite, Mr. Donahoe stated that historically no specific chemicals were known to have been used. Mr. Donahoe provided a list of specific chemicals and chemical products used by the GREC facility since its startup (Appendix B), which generally include the following: lubricating oils, low sulfur diesel

oil, water treatment chemicals such as caustic soda, sulfuric acid, sodium hypochlorite, aqueous ammonia, various laboratory reagents, soda ash and various miscellaneous maintenance chemicals.

In regards to spills or other chemical releases, Mr. Donahoe indicated that a "daily" log is maintained onsite in the control room of all events occurring on the plant property. No known events have occurred since the plant startup. During construction activities, two events occurred both involving the rupture of hydraulic hoses on equipment during construction. In each occurrence, the amount of the hydraulic oil released was below reportable thresholds and the released oil and associated soils were containerized and properly disposed offsite by Fagan, Inc. There are no outstanding issues regarding the two releases and no other releases are known to have occurred.

Mr. Donahoe stated that there are no known pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property; there are no known pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the property; and there are no known notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products.

4.4 Commonly Known or Reasonably Ascertainable Information

Mr. Donahoe 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?

Mr. Donahoe stated that there were none.

4.5 Valuation Reduction for Environmental Issues

No purchasing price information was provided to ECT.

4.6 Owner, Property Manager, and Occupant Information

According to the Property Appraiser's online database, the City of Gainesville is the current owner of the site. Mr. Robert Donahoe was identified as the site contact for the GREC facility.

4.7 Reason for Performing Phase I

The reason for performing the phase I ESA is to evaluate the presence/absence of RECs at the request of the Client.

4.8 Other

Mr. Robert Klemans with Gainesville Regional Utilities provided ECT with groundwater quality information for proximate monitoring wells that form a part of the groundwater monitoring network for the Deerhaven Generating Station. A review of the data (see Appendix C) for the most recent year for the three closest shallow wells indicates that only iron was detected at a concentration in three of the six samples above the groundwater cleanup target level (GCTLs) and below the natural attenuation default concentrations (NADCs), pursuant to Chapter 62-777 of the Florida Administrative Code. Iron is ubiquitous in the surficial aquifer in Florida.

ECT was provided a phase I ESA report prepared by Dames & Moore (D&M) dated December 8, 1998. The phase I ESA was conducted of the entire Deerhaven Generating Station Property. The following summary of the report is restricted to information relevant to the subject site.

The historical records review included aerial photographs dating back to 1958. An interview with personnel from GRU indicated that there was no known development prior to that of the power plant. D&M concluded that the entire site was undeveloped until development of the power plant beginning in 1970. The report noted that there were petroleum storage tanks located at the western adjacent Alachua County facilities and that no discharges had been reported. No listing was found for this adjacent facility on the attached electronic database report. D&M personnel reviewed groundwater monitoring data from the network of wells. No NOVs or warning letters were found in the file information reviewed by D&M. A limited review of groundwater monitoring data was conducted and D&M found no concern. GRU personnel reported no exceedances of any of the tested constituents above background conditions.

ECT completed a phase I ESA in June 2009. The phase I ESA report identified a REC associated with elevated constituent concentrations detected in routine quarterly monitoring activities. The elevated readings were attributed to the operating Deerhaven Generating Station.

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 Environmental Data Resources, Inc., 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 D.

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.

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 place 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 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 (LQGs) 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. Resource Conservation and Recovery Information System (RCRIS) SQGs generate less than 1,000 kg/month of non-acutely hazardous waste or meet other applicable RCRA requirements.

There are no listed RCRA Generator facilities within 0.25-mile of the subject property. The Deerhaven Generating Station is not a SQG and may be a CESQG. There have been no reported discharges relative to hazardous waste at the Deerhaven Generating Station.

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.

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 are no landfills or solid waste facilities listed within 0.5-mile of the subject property.

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. The 2009 phase I ESA report prepared by ECT noted the following:

Deerhaven Generating Station, located at 10001 Hwy 441, approximately 0.47-mile to the southeast, had a reported discharge of unleaded gasoline on November 8, 1988. According to a review of the database report, remedial actions are complete and a Site Rehabilitation Completion Order has been issued.

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

This database contains listings for current UST and aboveground storage tank (AST) sites.

There are no facilities listed on the UST/AST database within 0.5-mile of the subject property. The 2009 phase I ESA report prepared by ECT noted the following:

Andrews Paving, located at 6327 NW 123rd Place, approximately 0.42-mile to the northwest, is listed with four registered ASTs as follows: two 10,000-gallon diesel fuel ASTs, one 1,000-gallon unleaded gasoline AST, and one 2,000-gallon unleaded AST. All of the tanks except for the 1,000-gallon AST are in service. No discharges have been reported at this facility.

Swearingen Farm, located at 12216 Hwy 441, approximately 0.29-mile to the southwest, has two registered storage tanks as follows: one 550-gallon unleaded gasoline UST and one 550-gallon diesel fuel UST. According to a review of the database report, both tanks have been removed as of March 31, 1990. No discharges have been reported at this facility.

Deerhaven Generating Station, located at 10001 Hwy 441, approximately 0.47-mile to the southeast, has 22 registered storage tanks containing or that contained unleaded gasoline, diesel fuel, new lube oil, mineral acid, fuel oil and bunker C residual oils. Currently, seven tanks are in service as follows: two 5,000-gallon mineral acid ASTs, one 500-gallon mineral acid AST, one 10,000-gallon vehicular diesel fuel AST, one 2,314,578-gallon bunker C residual oil AST, one 2,289,504-gallon diesel fuel AST (generator fuel) and one 124,278-gallon bunker C residual oil AST. Section 5.1.2.3 discusses the one identified discharge at this facility.

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 OTHER facilities listed within 0.50-mile of the subject property.

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 are provided in the database search report. These are summarized in the database report, presented as Appendix D. Neither the subject property nor abutting properties are identified in the additional databases.

5.3 Physical Setting Source(s)

The U.S. Geological Survey (USGS) 7.5-Minute Series of the Alachua, Florida quadrangle map was reviewed. The majority of the subject property is depicted as forested. No structures are shown onsite. The subject property is located at an approximate elevation of 180 feet above mean sea level. A rail line and Hwy 441 are depicted near the southern boundary of the subject site.

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 Alachua, Florida quadrangle map, dated 1966 with photo revision dated 1993. This map was retrieved from ECT files. The majority of the subject property is depicted as forested. Wetland symbols are illustrated in the northwestern, central and southern portions of the subject property. No structures are shown onsite. A rail line and Hwy 441 are depicted near the southern boundary of the subject site. A copy of the topographic map is provided as Figure 1.

5.4.2 Aerial Photographs

Historical aerial photographs dated 1937, 1949, 1955, 1964, 1975, 1987, 1998, and 2008 were obtained through the Historical Aerials of Florida online database. The most recent aerial photography was reviewed on Google Earth. The photographs were reviewed to identify former land uses on, and in the vicinity of, the subject property. The photographs are low-altitude, black-and-white photographs. A 2008 color aerial photograph was obtained from the Alachua County Property Appraiser's website. Brief descriptions of the subject property and vicinity, as observed in the aerial photographs, are presented below. A copy of each of the aerial photographs is provided in Appendix E.

Two apparent agricultural-type structures are evident onsite along the northern property boundary in the earliest available (1937) aerial photograph. The structures are at the northern edge of an apparent pasture located in the northwestern portion of the subject site. An unpaved road appears to provide access to the buildings from offsite to the north. An unpaved road is just visible in the southern portion of the subject site. The remainder of the site appears to be undeveloped woodland with several wetland areas evident. A rail line and Hwy 441 are evident to the south and west.

Only one agricultural-type structure is apparent onsite along the northern property boundary in the 1949 aerial photograph. A strip of land along the northern property boundary has been cleared and may be an unpaved road. The vegetation has matured in an area that appears to have been in agricultural use in the prior aerial photograph. Several unknown objects are apparent in the west-central and south-central areas of the site. Some selective timbering appears to have occurred in portions of the subject property.

The pasture area and the adjacent area that appeared to be in agricultural use have been converted to planted pine in the 1955 aerial photograph. Other areas onsite have become more densely vegetated.

An unpaved road near the eastern property boundary provides a connection from the unpaved road in the southern portion of the subject site to the cleared strip of land along the northern property boundary in the 1964 aerial photograph. Areas of the property have been timbered.

The property appears to be re-forested in the 1975 aerial photograph. A cleared strip is apparent along a portion of the western property boundary. No other significant changes are apparent.

An area in the northeastern portion of the subject site has been cleared in the 1987 aerial photograph. The unpaved roads onsite are more difficult to discern due to the tree coverage.

One area in the southern portion of the subject site has been timbered in the 1998 aerial photograph. No other significant changes are apparent.

Numerous unpaved trails are evident onsite in the 2008 aerial photograph. Some selective timbering has occurred in the northern portion of the site and the cleared area evident in the 1998 aerial photograph has been revegetated.

A review of the aerial photographic image (2012) on Google Earth depicts construction activities in the northern portion of the subject site. Three excavations are apparent along the northern property boundary and building and clearing activities are apparent at the current location of the GREC facility. A parking area is evident in the south-central portion of the subject site.

5.4.3 Street Directories

City directories were not reviewed for this phase I ESA based on a review of aerial photographs and the topographic map, information provided during interviews and the distance and relatively recent development of the adjacent properties.

5.4.4 Fire Insurance Maps

No Sanborn maps are available that provide coverage of this area of Gainesville.

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 Alachua, Florida quadrangle map, dated 1966 with photorevisions dated 1993. This map was retrieved from ECT files. The northern adjacent property is depicted as forested with no structures. Apparent retention ponds are illustrated on the eastern adjacent property. A rail line and Hwy 441 are shown close to the southern property boundary. The area south of the subject site and south of Hwy 441 appears to be forested with no structures shown. Three structures and cleared land are shown west of the subject site as well as some forested land. There is a double dotted line drawn along the northern and part of the western property boundaries. The double line is labeled “Corporate Boundary”. A copy of the topographic map is provided as Figure 1.

5.5.2 Aerial Photographs

Historical aerial photographs dated 1937, 1949, 1955, 1964, 1975, 1987, 1998, and 2008 were obtained through the Historical Aerials of Florida online database. The most recent aerial photography was reviewed on Google Earth. The photographs were reviewed to identify former land uses on, and in the vicinity of, the subject property. The photographs are low-altitude, black-and-white photographs. A 2008 color aerial photograph was obtained from the Alachua County Property Appraiser's website. Brief descriptions of the subject property and vicinity, as observed in the aerial photographs, are presented below. A copy of each of the aerial photographs is provided in Appendix E.

The adjacent properties are undeveloped with structures in the earliest available (1937) aerial photograph. All of the adjacent properties are heavily wooded. An unpaved road appears to provide access to the onsite buildings from the northern adjacent property. An unpaved road is just visible in the southern portion of the western adjacent property. A rail line and Hwy 441 are evident to the south and west of the subject site.

A strip of land between the northern adjacent property and the subject property has been cleared and may be an unpaved road in the 1949 aerial photograph. No other significant changes are apparent on the remaining adjacent properties.

No significant changes are apparent on the adjacent properties in the 1955 aerial photograph.

An unpaved road near the eastern property boundary of the subject site extends onto a portion of the eastern adjacent property in the 1964 aerial photograph. An unpaved road in the southern portion of the subject site extends onto the western adjacent property. An unpaved road is apparent on the northern adjacent property.

The western adjacent property has been developed with several buildings in the 1975 aerial photograph. Also evident to the west are cleared areas and an apparent area of aggregate storage. No changes are apparent on the northern and eastern adjacent properties. The land south of Hwy 441 has been cleared with only scattered trees evident.

An additional building and additional storage are apparent on the western adjacent property in the 1987 aerial photograph. The southern adjacent property is much more vegetated and remains undeveloped. An apparent landfill has been excavated on the eastern adjacent property as have two ponds and a ditch. An electrical power plant is evident to the far east.

No significant changes are apparent on the adjacent properties in the 1998 aerial photograph.

The adjacent properties appear basically as they looked during the site investigation in the 2008 aerial photograph and on the Google Earth photographic image (2012). Two commercial buildings and other commercial uses are apparent to the south of Hwy 441 on the southern adjacent properties.

5.5.3 Street Directories

City directories were not reviewed for this phase I ESA based on a review of aerial photographs and the topographic map, information provided during interviews and the distance and relatively recent development of the adjacent properties.

5.5.4 Fire Insurance Maps

No Sanborn maps are available that provide coverage of this area of Gainesville.

6.0 SITE RECONNAISSANCE

On February 19, 2014, Mr. Richard Powell, P.E., Principal Scientist with 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 site inspection was conducted to identify visible evidence of RECs. Photographs taken during ECT's site inspection are provided in Appendix F. Resumes for ECT personnel are provided in Appendix G.

6.1 Methodology and Limiting Conditions

ECT was provided full access to the property. A perimeter road was used to observe the wooded, undeveloped Conservation Easement portion of the subject site.

6.2 General Site Setting

6.2.1 Current Use(s) of the Property

The subject property is comprised of approximately 130 acres leased from GRU. Approximately 108 acres is developed with the GREC biomass fired steam electric generating facility.

6.2.2 Past Use(s) of the Property

Based on a review of aerial photographs, a review of the topographic map, and information provided during interviews, the subject site was developed with two apparent agricultural buildings in the earliest available photograph. Pasture land was apparent in the northwestern portion of the subject site until it was replaced with

planted pine in about 1957. No structures were evident onsite by the 1957 aerial photograph. The land use of the subject site did not change significantly between 1957 and 2010. Construction of the GREC facility began in 2011.

6.2.3 Current Uses of Adjoining Properties

The Alachua County Public Works Department has maintenance, storage, and office buildings and outdoor storage on the western adjacent property. A radio tower is also located to the west. The northern adjacent property is undeveloped. An ash landfill/storage area, a brine disposal area, two ponds, and a ditch are located on the eastern adjacent property. These are facilities associated with the Deerhaven Generating Station located further to the east. Commercial buildings and businesses are located south of the subject property, across Hwy 441.

6.2.4 Past Uses of Adjoining Properties

Based on a review of aerial photographs, a review of the topographic map and information provided during interviews, the adjacent properties were undeveloped until about 1975. Development of the Alachua County facilities to the west was first apparent in the 1975 aerial photograph, development of the Deerhaven Generating Station facilities was not apparent until the 1987 aerial photograph and the commercial development to the south did not occur until after 1998. The northern adjacent property has not been developed.

6.2.5 Current or Past Uses in the Surrounding Area

Based on a review of aerial photographs, a review of the topographic map and information provided during interviews, the surrounding properties appear to have been undeveloped prior to institutional, commercial and residential development to the west and south and industrial development to the east.

6.2.6 Geologic, Hydrogeologic, Hydrologic, and Topographic Conditions

There is no apparent direction of groundwater flow based on a review of the USGS quadrangle map.

Alachua County is part of the Central Florida Ridge within the Central Highlands of the Atlantic Coastal Plain. It has four major geological formations that have influenced soil development. They are the Ocala Group, the Hawthorn Formation, the Alachua Formation, and the Plio-Pleistiocene Terrace Deposits. The area of the subject site consists of the Hawthorn Group, Coosawhatchle Formation.

The regional aquifer system consists of three major geohydrologic units: the surficial aquifer, intermediate, and Floridan aquifer systems; in this area; however, the Plio-Pleistocene Terrace Deposits that comprise the surficial aquifer, are not present.

Recharge to this aquifer is by infiltration of rainwater. The intermediate aquifer is from infiltration from overlying aquifers and point source recharge. The Hawthorn Formation acts as the upper confining unit for the Floridan aquifer. Recharge to the Floridan aquifer is from rainwater infiltration in unconfined areas and point source recharge through solution features. Virtually all of Alachua County's water supply for potable consumption, industry, and irrigation is withdrawn from wells in the Floridan aquifer.

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.

Many totes and drums of water treatment chemical products were observed in a secondary containment structure located north of the cooling tower. No spillage was observed on the concrete base of the containment area. Various chemicals are in use at the zero liquid discharge treatment area and at the cooling tower. These in-use chemicals are stored within secondary containment. A sulfuric acid tank and an aqueous ammonium hydroxide tank are within secondary containment as well as unloading containment; no evidence of releases or spillage was evident. A double-walled fuel tank is provided for the standby diesel generator. No evidence of the spillage of fuel was noted. A portable 500-gallon fuel "wagon" is provided to fuel the fuel yard vehicles, gators and other service vehicles. This mobile fueling unit is double-walled to provide tank containment and appears to be in good operating condition. No evidence of any releases was noted. Bulk soda ash is stored in an onsite storage silo. The silo receives product from trucks specifically designed to transport and transfer the specific product. Small quantities of reagent chemicals were noted for laboratory use.

A chemical inventory list was provided by Mr. Donahoe and is included as Appendix B.

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 evidence of USTs was observed onsite.

There is one 500-gallon double-walled diesel fuel AST, associated with the fire pump, housed inside a structure. There is a 5,750-gallon double-walled diesel fuel tank integral to the emergency generator. There is a 500-gallon double-walled mobile diesel

fuel fueling "wagon" located in the wood yard used to fuel plant equipment. There is a 5,200-gallon sulfuric acid storage tank in secondary containment located north of the cooling tower. There is a 15,000-gallon aqueous ammonia tank within secondary containment located north of the cooling tower. Other ASTs include raw water / fire water tanks, reclaimed water tank, a condensate tank, dimineralized water tank, sodium hypochlorite tank, coagulant tanks, and other tankage associated with process/potable water treatment and the zero-liquid discharge system. All ASTs holding hazardous chemicals are stored within secondary containment.

6.3.3 Odors

The subject site was checked for strong, pungent, or noxious odors and their sources during the site visit. No readily noticeable strong, pungent, or noxious odors were encountered onsite.

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.

Standing water was observed in four of the stormwater ponds and in the Conservation Easement area wetlands. No sheens or odors were noted on any of the surfaces of the stormwater ponds.

6.3.5 Drums

Storage drums were looked for during the site visit.

Many drums and totes of new and in-use product were observed in the zero-liquid discharge process area at the cooling tower and at the receiving pad containment north of the cooling tower. These drums and totes were observed to be stored in secondary containment.

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 observed other than those described in Section 6.3.1.

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 Polychlorinated Biphenyls (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 (that may or may not be present onsite) were not evaluated.

Numerous transformers were observed throughout the power block and throughout the plant site. The transformers and the equipment in the switchyard do not contain PCBs, according to the site contact.

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.

Five stormwater ponds were observed on the subject property. Three ponds are located along the northern boundary of the subject property, one is located across the road from the truck dumpers and one is located east of the entrance road. No sheens or odors were apparent on any of the surfaces of the water bodies. Stormwater retention ponds and process water ponds are located on the eastern adjacent property.

6.3.10 Stained Soil or Pavement

Areas of stained soil or pavement were looked for during the site visit. No areas of staining were observed.

6.3.11 Stressed Vegetation

Areas of stressed vegetation (from other than insufficient water) were looked for during the site visit. Since the site has been newly planted due to its start-up condition, all vegetation and associated plantings appear to be acclimating well. No areas of stressed vegetation were noted in areas undisturbed by construction activities.

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 although numerous dumpsters were observed throughout the plant site.

Two dumpsters were observed across the parking lot from the office/control room building for conventional solid waste. Two dumpsters were observed under the boiler to receive bottom ash and a dumpster is provided to receive solids from the zero-liquid

discharge system. Fly ash from the fly ash silos is taken away by truck. The ash and wastewater treatment sludges are disposed offsite by Heart of Florida and common trash is removed from the site by Waste Pro of Gainesville, Florida. The facility is a conditionally exempt small quantity generator of hazardous waste. Provisions have been made for the management of universal waste, although none has yet to be generated to date. Waste oil is collected for recycling offsite.

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.

Onsite process wastewater including boiler blowdown and cooling tower blowdown drains to one of three oil/water separators that then flow to the zero-liquid discharge system. All water from secondary containment structures is considered process wastewater. Sanitary wastewater is collected and pumped to GRU for treatment.

6.3.14 Wells

Wells, including dry wells, irrigation wells, injection wells, monitoring wells, abandoned wells, or other wells, were looked for during the site visit.

Three monitoring wells were observed along the western property boundary, one monitoring well was observed along the eastern boundary, and one monitoring well was observed near the northeastern corner of the subject site. Two productions wells are located onsite as is a potable water well. There are two temporary irrigation wells.

6.3.15 Septic Systems

Indications of onsite septic systems or cesspools were looked for during the site visit. No evidence of onsite septic systems or cesspools was observed.

6.3.16 Other

An ash landfill/storage area and a brine disposal area were observed offsite to the east. An underground natural gas pipeline provides startup fuel for the boiler.

6.4 Interior Observations

The following items were looked for, or identification was attempted, as indicated in the ASTM standard. Full access was provided to the interior portions of the onsite structures.

6.4.1 Heating/Cooling

The method(s) of heating and cooling onsite buildings was looked for. The office portion of the warehouse/office building and the control room are heated and cooled via centralized electrical heating, ventilation and air conditioning. Additionally, other buildings housing critical equipment such as switchgear, monitoring equipment and laboratory equipment have electrical cooling equipment.

6.4.2 Stains or Corrosion

Areas of stains or corrosion of floors, walls, or ceilings were looked for during the site visit. No such areas were noted during the site visit.

6.4.3 Drains and Sumps

Floor drains and sumps were looked for during the site visit. No interior floor drains or sumps were observed in the warehouse or office building/control room. The water treatment building contains drain trenches. After reuse, the collected water is treated in the zero-liquid discharge system.

6.4.4 Hazardous Substances and Petroleum Products in Connection with identified Uses

The presence of hazardous substances or petroleum products was investigated. Approximately 15 drums of lubricating and hydraulic oil as well as used oil were observed in secondary containment in the warehouse. Miscellaneous aerosol spray cans were observed at workstations in the warehouse and the electrical shop in the office building. No evidence of spillage or leaks was noted.

6.4.5 Storage Tanks

ASTs, USTs, or vent pipes, fill pipes, or access ways indicating USTs were looked for during the site visit. No evidence of USTs was observed in the interior portions of the building. One double-walled 500-gallon diesel fuel AST is located in the fire pump room. A sodium hypochlorite tank is located within containment in the water treatment building. Other water treatment chemicals located in tanks or totes are stored in secondary containment.

6.4.6 Odors

The ECT representative checked for strong, pungent, or noxious odors and their sources during the site visit. No noticeable strong, pungent, or noxious odors of concern were encountered.

6.4.7 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 significant amounts of standing water likely to contain hazardous substances or petroleum products were observed in the interior of the structures.

6.4.8 Drums

Drums of lubricating and hydraulic oil were located in the warehouse as noted in 6.4.3. These drums were provided within secondary containment.

6.4.9 Hazardous Substance and Petroleum Products Containers (Not Necessary in Connection with Identified Uses)

Hazardous substance and petroleum products containers were looked for during the site visit. No hazardous substance or petroleum products containers were observed other than those previously mentioned.

6.4.10 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 open or damaged containers containing unidentified substances suspected of being hazardous substances or petroleum products hazardous substance and petroleum products containers were identified during the investigation.

6.4.11 PCBs

Electrical or hydraulic equipment known to contain PCBs or likely to contain PCBs was 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. No electrical or hydraulic equipment known to contain PCBs or likely to contain PCBs were identified inside any of the structures.

6.4.12 Other

When it is generated, universal waste is to be held in the warehouse building.

7.0 INTERVIEWS

7.1 Interviews with Site Contacts

During the phase I ESA investigations, ECT interviewed Mr. Robert Donahoe.

Mr. Donahoe 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 (MSDSs);
- 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. Donahoe responded with the following:

- Environmental Site Assessment Reports – Prior phase I ESA reports had previously been conducted. Copies are available to ECT for review.

- Environmental Audit Reports – Internal environmental audits are yet to be conducted.

- Environmental Permits – The facility was permitted under the Power Plant Siting Act with separate authorizations for the potable water system. An application for a Title V Air Permit had recently been submitted as the application must be filed

within 180 days of initial startup. Permits for hazardous or solid waste generation disposal or management are not required.

- Registrations for USTs and ASTs – The facility has ASTs registrations for the sulfuric acid storage tank, the standby generator diesel fuel tank and for the aqueous ammonia storage tank. The fire pump diesel storage tank and the mobile diesel fuel storage tank do not require registrations due to their smaller size. No USTs have been associated with the GREC facility. There are three below-grade oil/water separators that do not meet the definition of a UST.

- Registrations for Underground Injection System – There are no underground injection systems onsite.

- MSDSs – The facility maintains a book with MSDS information for all chemicals onsite. This book was provided to the ECT representative for review.

- Community Right-To-Know Plan – The facility is subject to community right-to-know reporting under the Emergency Planning & Community Right-to-Know Act (EPCRA), Sections 302, 312 and 313.

- Safety Plans, Preparedness and Prevention Plans, Spill Prevention, Countermeasure and Control Plans (SPCC), etc. – The facility maintains risk management, SPCC and solid waste management plans.

- Reports Regarding Hydrogeologic Conditions on the Property or Surrounding Area – A prior phase I ESA report and the Site Certification Application prepared by ECT contain information regarding the subject property's hydrogeologic conditions.

- Notices Or Other Correspondence from Any Government Agency Relating to Past or Current Violations or Environmental Laws with Respect to the Property or Relating to Environmental Liens Encumbering the Property – There have been no violations, spills, or discharges other than the two hydraulic hose leaks during construction activities. These two incidents did not require reporting.

- Hazardous Waste Generator Notices or Reports – The GREC facility is a conditionally exempt SQG in the event that any hazardous waste is shipped offsite.

- Risk Assessments – Internal risk assessments have not been conducted to date.

- Recorded Activity Use Limitations – There are no known restrictions on the use of the property other than the Conservation Easement area.

Mr. Donahoe 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. Donahoe indicated that no USTs are located onsite. Various ASTs, as discussed elsewhere in this report, were observed during the site visit.

7.2 Interviews with Local Government Officials

No local or state government officials were contacted during this investigation. Information obtained through the interviews, historical review, and review of the regulatory agency file information provided sufficient information for the investigations.

8.0 FINDINGS

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

8.1 Known or Suspect RECs

The documented groundwater impacts associated with the groundwater monitoring conducted as part of the certification of the Deerhaven Generating Station constitutes a REC. The source of the impact is from the operation of the Deerhaven electrical power plant.

8.2 Historical RECs

No historical RECs were identified during this phase I ESA investigation.

8.3 Controlled RECs

No controlled RECs were identified associated with the subject property.

8.4 *De Minimis* Conditions

No *de minimis* conditions were identified during this phase I ESA investigation.

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.

The historical land use review indicates that the subject site was developed with two structures as early as 1937. It is likely that the buildings were associated with the

pasture land onsite. There is no indication of extensive cattle grazing onsite such that a CDV or cattle pens would be likely to have been onsite. Between 1957 and 2011, the property was planted in pine and there were limited timbering activities. Since the proximate Deerhaven Generating Station has been operational (late 1970s), the property had been part of a wooded buffer area until the construction of the GREC facility. There have been no reportable incidents associated with construction of the facility and with the brief operational phase of the power plant.

The subject property is identified as a CESQG. To date, no hazardous wastes have been produced that require offsite disposal. The adjacent Alachua County Public Works Department facilities are not listed on the regulatory database search report. There are no listed facilities in the recommended ASTM radii. The groundwater monitoring data generated quarterly indicates that there are exceedances of applicable groundwater standards and that the exceedances are attributable to the operation of the Deerhaven electrical power plant. These exceedances appear to be consistent over time and only exceedances of iron extend to the boundaries of the subject property. No NOVs or Warning Letters have been issued by FDEP that oversees compliance of the Deerhaven Generating Station.

10.0 CONCLUSIONS

ECT has performed a phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-05 of the GREC property located east of Hwy 441, south of NW 128th Lane, and east of the Deerhaven Generating Station (an electrical power plant) in Gainesville, Alachua County, Florida, 32653. Any exceptions to, or deletions from, this practice are described in Section 11 of this report. This assessment has revealed evidence of a REC associated with documented groundwater impacts associated with the operation of the Deerhaven Generating Station.

Based on the results of the phase I ESA investigations, no phase II ESA activities are recommended at this time to augment the groundwater data currently obtained facility-wide on an ongoing quarterly basis.

11.0 DEVIATIONS/DATA GAPS

No significant deviations from the ASTM Practice and no significant data gaps were identified during the phase I ESA investigation.

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.

13.0 REFERENCES

Alachua County Property Appraisers Website, Property Cards, March 2014.

Environmental Data Resources, Inc. Database Report, 11201 US Highway 441, Gainesville, Florida. February 19, 2014.

Florida Department of Environmental Protection Oculus Website, 2014. Regulatory file review. http://dwmedms.dep.state.fl.us/Oculus/servlet/login.

Historical Aerials of Florida, Aerial Photography, http://www.historicalaerialsofflorida.com 1938, 1947, 1957, 1965, 1975, 1984, 1995, and 2008 Aerial Photographs.

U.S. Geological Survey, 7.5-Minute Series Topographic Map, Alachua, Florida. 1966, Revised 1993.

Water Resources Atlas of Florida (1998), Florida State University. Fernald & Purdum, editors.

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:

_____

Darren L. Stowe, LEP
Principal Scientist

Report Reviewed and Approved By:

_____

Mona P. Johnson, P. G.
Staff Scientist

FIGURES

Path: Q:\projects\GREC\101084\0700\Vicinity Map.mxd User: jstebnisky Date: 2/28/2014

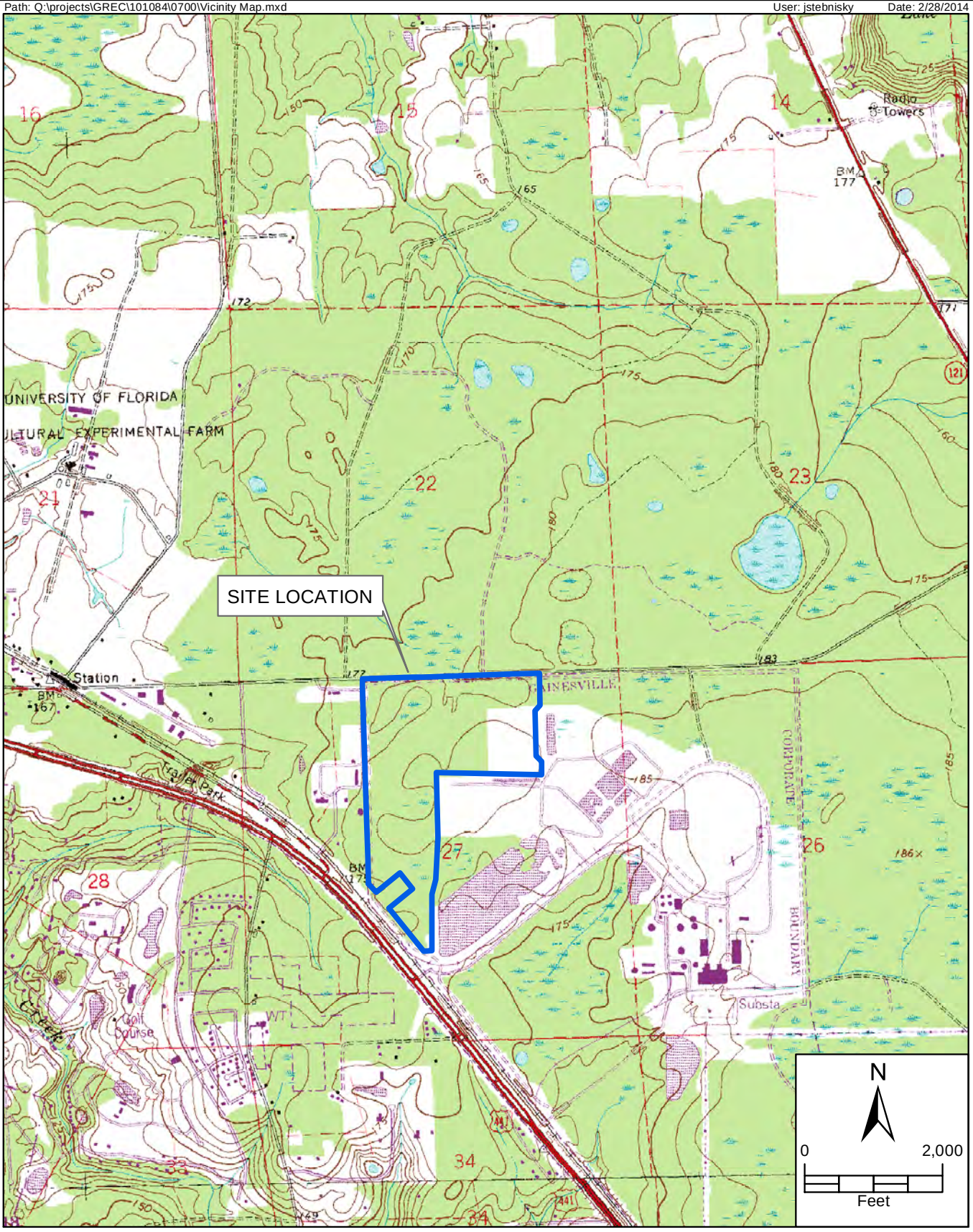

FIGURE 1.
FACILITY LOCATION MAP
GAINESVILLE RENEWABLE ENERGY CENTER
GAINESVILLE, FLORIDA

Sources: Labins.org Quadrangle Map of Alachua, Fl., 1993; ECT, 2014.

Gainesville Renewable Energy Center

Path: Q:\projects\GREC\101084\0700\Site_Map.mxd User: jstebnisky Date: 2/28/2014

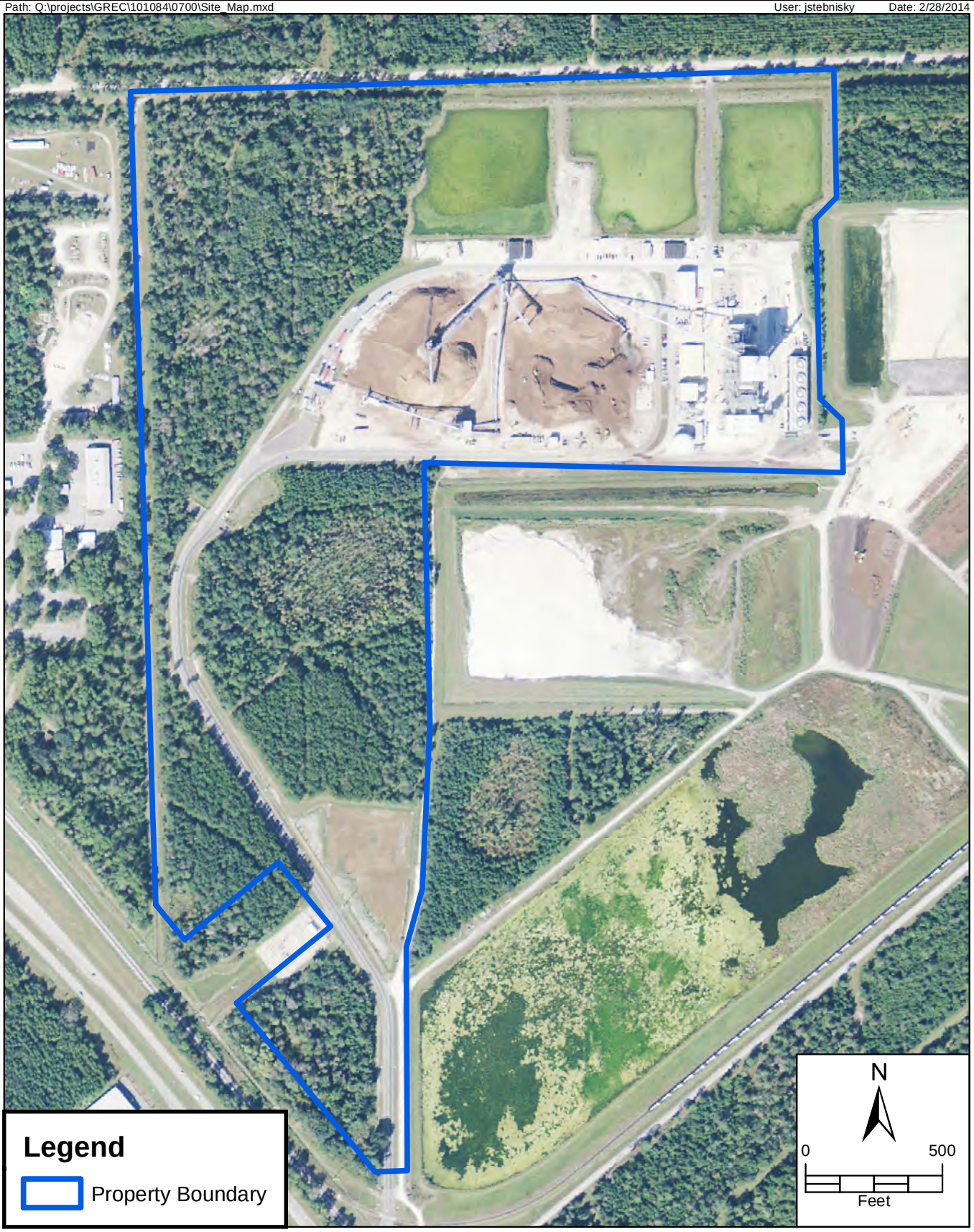

FIGURE 2.
SITE MAP
GAINESVILLE RENEWABLE ENERGY CENTER
GAINESVILLE, FLORIDA

Sources: USDA Aerial Photograph 2013; Alauchua County PA, 2013; ECT, 2014.

Gainesville Renewable Energy Center

LEGEND

1. WOOD FUEL STORAGE
2. WOOD FUEL STOCK PILE
3. SAW DUST UNLOADING AND STORAGE
4. FUEL METERING BINS
5. DUST COLLECTION
6. BAG HOUSES
7. FLY ASH SILO
8. COOLING TOWER
9. SULFURIC ACID RECEIVING AND STORAGE
10. AQUEOUS AMMONIA RECEIVING AND STORAGE
11. SODA ASH STORAGE AND HANDLING
12. ACTIVATED CARBON STORAGE AND HANDLING
13. SAND SILO
14. DISCHARGE 001 (D001)
15. DISCHARGE 002 (D002)
16. TRUCK RECEIVING
17. TRUCK DUMPER
18. TRUCK SCALE
19. ZERO LIQUID DISCHARGE SYSTEM
20. SANITARY LIFT STATION

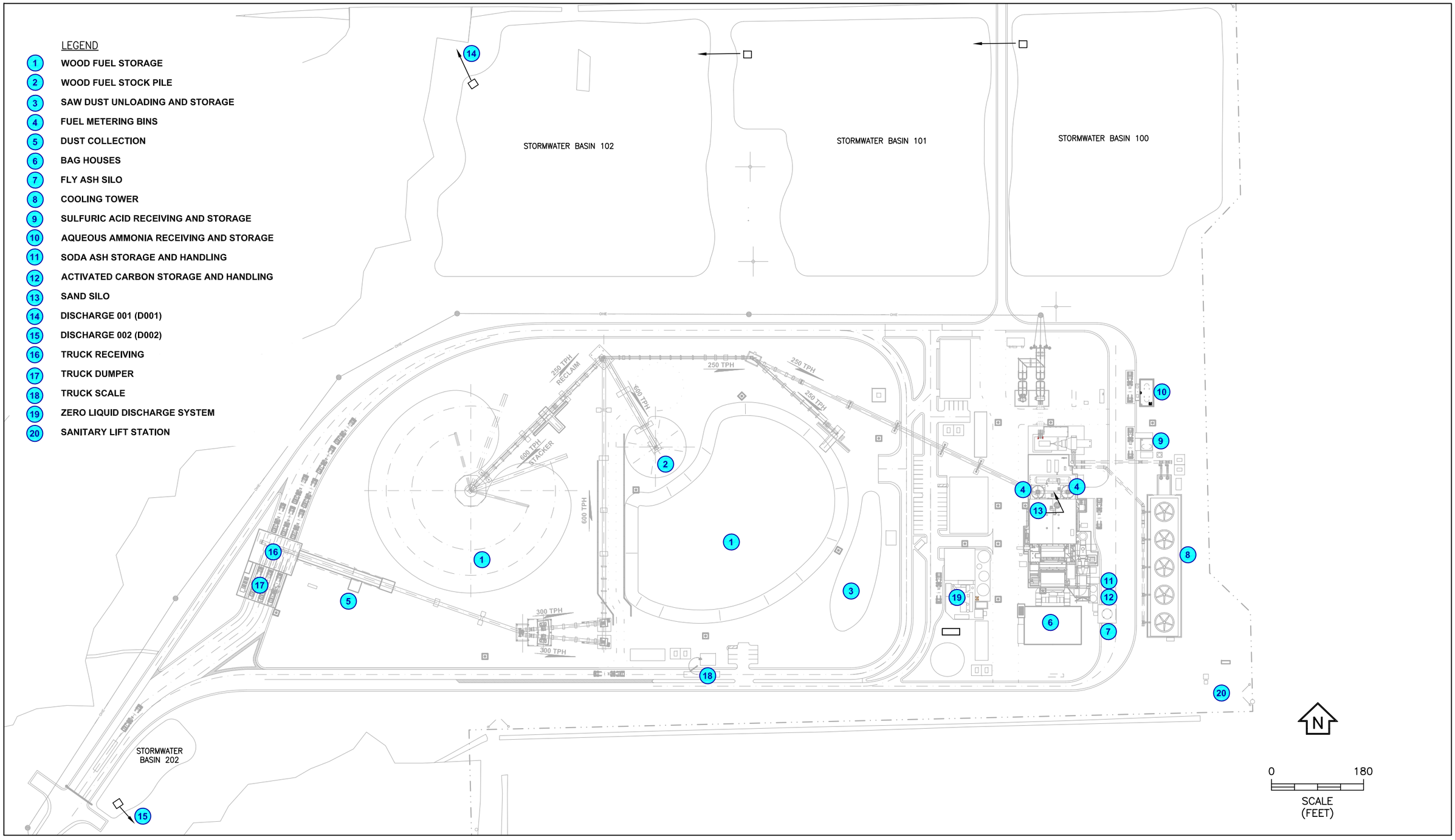

FIGURE 2A.
SITE PLAN
GAINESVILLE RENEWABLE ENGERY CENTER
GAINESVILLE, FLORIDA

Source: ECT, 2014.

Gainesville Renewable Energy Center

APPENDIX A

ALACHUA COUNTY PROPERTY APPRAISER INFORMATION

Search Date: 5/26/2009 at 10:25:51 AM - Data updated: 05/24/09 **Parcel: 05884-001-000**

Taxpayer:	CITY OF GAINESVILLE
Mailing:	% LAND RIGHTS COORDINATOR PO BOX 490 GAINESVILLE, FL 32602
Location:	10001 NW 13TH ST Gainesville
Sec-Twn-Rng:	26-8-19
Use:	MUNICIPAL
Tax Jurisdiction:	Gainesville
Area:	8-19 RURAL
Subdivision:	

Legal: DEERHAVEN POWER PLANT DESC AS W1/2 SEC 26 ALL SEC 27 N & E OF RR R/W LESS 41.6 AC THEREOF DESC AS S 1809.75 FT OFN 1959.75 FT OF E 1000 FT OF W 1800 FT OF NW1/4 SEC 27 ALSO E1/2 SEC 34 N & E OF RR R/W ALSO W1/2 SEC 35 N & E OF RRR/W LESS PARCEL 5X5 FT TO TITF AS PER OR 1566/1095 PER ORDER OF TAKING 1969 C-664-69 (LESS COM NW COR SEC 27 E800 FT S 150 FT S 1809.75 FT POB E 999.69 FT S 1124.19 FT N 38 DEG W 272.22NWLY ALG CURVE 1226.12 FT N 15.27 FTPOB PER OR 2227/1123)(LESS COM NW COR SEC S 50 FT POB E 799.86 FT S 548.62 FT W 800.35 FT S 540.28 FT POB PER OR 3283/0470)(LESS THAT PART PER UNREC'D ORD 2575 0-81-7 LYING W OF LINE DESC AS: COMNW COR SEC 27 E 1800 FT POB S 3248.61 FTTO NELY R/W OF R/R END OF SAID LINE)

Assessment History

** Exempt Amount and Taxable Value History reflect County Amounts. School Board and City Amounts may differ. **

Year	Use	Land	Building	Misc	Total	SOH Deferred	Assessed	Exempt**	Taxable**	Taxes
2008	MUNICIPAL	3653600	0	40000000	43653600	0	43653600	43653600	0	0
2007	MUNICIPAL	3653600	0	40000000	43653600	0	43653600	43653600	0	0
2006	MUNICIPAL	3746900	0	40000000	43746900	0	43746900	43746900	0	0
2005	MUNICIPAL	3779900	0	40000000	43779900	0	43779900	43779900	0	0
2004	MUNICIPAL	3779900	0	40000000	43779900	0	43779900	43779900	0	0
2003	MUNICIPAL	3779900	0	40000000	43779900	0	43779900	43779900	0	0
2002	MUNICIPAL	3436300	0	40000000	43436300	0	43436300	43436300	0	0
2001	UTILITY	3436300	0	40000000	43436300	0	43436300	43436300	0	0
2000	UTILITY	3436300	0	40000000	43436300	0	43436300	43436300	0	0
1999	UTILITY	3472800	0	40000000	43472800	0	43472800	43472800	0	0
1998	UTILITY	3472800	0	40000000	43472800	0	43472800	43472800	0	0
1997	UTILITY	3472800	0	40000000	43472800	0	43472800	43472800	0	0
1996	UTILITY	3472800	0	40000000	43472800	0	43472800	43472800	0	0
1995	UTILITY	3472800	0	40000000	43472800	0	43472800	43472800	0	0

Land

Use	Zoning	Acres
MUNICIPALLY OWNED	Agriculture	1107.14
		2008 Certified Land Value: 3653600

Miscellaneous

Description	Units
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	5
	2008 Certified Miscellaneous Value: 40000000

Permit

County Permit information is supplied by the Alachua County Office of Codes Enforcement. The Alachua County Office of Codes Enforcement and the Property Appraiser's Office assume no liability whatsoever associated with the use or misuse of this public information data and will not be held liable as to the validity, correctness, accuracy, completeness, and / or reliability of this data.

Permit Number	Permit Type	Issue Date	Final Date	Appraisal Date	Comment
07-8585	SLAB/DRIVE/WALL RES.	01/08/2008	03/04/2008	03/04/2008	NEW PAVING
07-6694	FOUNDATION ONLY	11/01/2007	00/00/0000	03/04/2008	FNDATION-GRU PWR EQUIP
07-6694	FOUNDATION ONLY	10/29/2007	00/00/0000	03/04/2008	FNDATION ONLY
07-5624	COMMERCIAL BUILDING	09/06/2007	00/00/0000	03/04/2008	4 TEMP OFFICE BLDGS
07-5623	MISCELLANEOUS	08/22/2007	00/00/0000	03/04/2008	SITEWORK

APPENDIX B

LIST OF CHEMICALS USED ONSITE

Product Summary Report for All Products run on 2/19/2014

Product Name	Manufacturers	Revision Date	CAS #
2020/2300/2350/2600/2700/3100/3100LDC/3103/3107/3109/3300/3400/3450/3700/8040/8040 Series EP/4045/XP10/XP10E/XP12/XP12E/XP24 Dry Imager	Xerox Corporation	09/19/2008	
21055-28 DPD Free Chlorine Reagent	HACH LANGE GmbH	01/04/2010	
442 Natural Water Standard Solution	Hach Company	10/16/2009	
5A228 - THREADLOCKER 10 ML	HENKEL LOCTITE CORPORATION	10/20/2003	
740 Heavy Duty Rust Guard (Aerosol)	A. W. Chesterton Company	07/29/2010	
ACETONE	Fluka Chemical Company	12/10/2013	67-64-1
Amino Acid F Reagent Solution	Hach Company	10/15/2009	
Amino Acid F Reagent Solution	Hach Company	07/01/2012	
Amino Acid Reagent for Phosphate and Silica	Hach Company	11/01/2009	
Amino Acid Reagent for Phosphate and Silica	Hach Company	09/01/2012	
AMMONIUM HYDROXIDE	TANNER INDUSTRIES, INC.	02/01/2006	1336-21-6
AMMONIUM HYDROXIDE	TANNER INDUSTRIES, INC.	02/01/2006	1336-21-6
Aqua Guard Chlorinating Sanitizer, Aqua Guard Bleach, Liquid Chlorine Solution, Liquid Bleach, Hypochlorite, Hypo, Sodium Hypochlorite and Chlorine Bleach	ALLIED UNIVERSAL CORPORATION	05/17/2010	7681-52-9
BETZDEARBORN DCL30	GE Betz, Inc.	08/29/2011	7631-90-5
Bromcresol Green-Methyl Red Indicator Powder	Hach Company	12/05/2013	7447-40-7
Buffer Solution Hardness 1 pH 10.1 +/- 0.1	Hach Company	08/01/2013	
Buffer Solution pH 10.01 +/- 0.02 (NIST)	Hach Company	02/08/2013	
Buffer Solution pH 4.01 +/- 0.02 (NIST)	Hach Company	10/06/2013	
Buffer Solution pH 7.00 +/- 0.02 (NIST)	Hach Company	02/08/2013	
Buffer Solution Phosphate Type	Hach Company	09/23/2004	
Buffer Solution Phosphate Type	Hach Company	10/15/2009	
Calcium Chloride 10-60%, Liquid.	Brenntag Canada Inc.	07/19/2006	
Canon GPR-31 Black Drum Unit	Canon, Inc.	07/28/2009	3463-67-7, 236-675-5
Canon GPR-31 Black Toner	Canon, Inc.	06/22/2012	1333-86-4, 3463-67-7
Canon GPR-31 Color Drum Unit	Canon, Inc.	07/28/2009	3463-67-7, 236-675-5
Canon GPR-31 Cyan Toner	Canon, Inc.	01/14/2011	3463-67-7
Canon GPR-31 Magenta Toner	Canon, Inc.	01/14/2011	13463-67-7
Canon GPR-31 Yellow Toner	Canon, Inc.	01/14/2011	3463-67-7
CAUSTIC SODA, LIQUID, 10-50% (8589, 9028, 9101)	Brenntag Canada Inc.	01/04/2010	1310-73-2 and 7647-14-5
CDTA Reagent	Hach Company	10/15/2009	
CDTA Reagent	Hach Company	04/01/2012	
Chemtreat FO-321	Chemtreat, Inc.	09/12/2011	
Chlorophosphonazo Indicator Solution Pillows	Hach Company	03/25/2010	
Chlorophosphonazo Indicator Solution Pillows	Hach Company	12/08/2012	
Citric Acid F Reagent	Hach Company	10/06/2013	
Clorox Regular-Bleach	CLOROX SALES COMPANY	07/01/2012	
CORRSHIELD MD4100	GE Betz, Inc.	08/03/2012	7631-95-0 and 7632-00-0

CORTROL OS5607	GE Betz, Inc.	06/21/2013 497-18-7
DEHA 1 Reagent	Hach Company	05/07/2013
DEHA 2 Reagent	Hach Company	10/15/2009
DEHA 2 Reagent	Hach Company	07/01/2012
Desiccant, Indicating	HACH LANGE GmbH	10/01/2010
DPD FREE CHLORINE REAGENT	Hach Company	03/19/2012
DPD FREE CHLORINE REAGENT	Hach Company	10/19/2012
DPD TOTAL CHLORINE REAGENT	Hach Company	06/08/2013
DPD Total Chlorine Reagent	Hach Company	06/08/2013
drierite with indicator	ALDRICH CHEMICAL COMPANY	10/20/2009 7778-18-9
Drop Dead Aerosol (15 OZ)	CHEMSEARCH - A DIVISION OF NCH CORPORATION	02/21/2002
DROP DEAD II AEROSOL	CHEMSEARCH - A DIVISION OF NCH CORPORATION	06/29/2009
DUSTREAT DC9112	GE Betz, Inc.	03/08/2010
EDTA Tetrasodium Salt 0.800 +/- 0.004 M	Hach Company	11/22/2012
FOAMTROL AF1440	GE Betz, Inc.	09/26/2011 64741-44-2
Gasoline (All Grades)	Murphy Oil USA, Inc.	05/11/2010
GENGARD GN8004	GE Betz, Inc.	04/03/2013
GOJO Rich Pink Antibacterial Lotion Soap	GOJO Industries, Inc.	09/09/2013
Hydrated Lime	Lhoist North America	08/06/2012
HYPERSPERSE MDC150	GE Betz, Inc.	11/03/2011
HYPERSPERSE MDC700	GE Water & Process Technologies Canada	09/21/2010
KLEEN MCT103	GE Betz, Inc.	02/06/2013 5064-31-3, 139-89-9, 79-14-1, 7664-38-2, 7732-18-5, 2836-32-0, 7558-80-7
KLEEN MCT511	GE Betz, Inc.	04/25/2011 5064-31-3, 102-71-6, 64-02-8, 141-43-5, 111-42-2,2002-24-6, 119345-04-9
KRAZY GLUE ALL PURPOSE	Elmer's Products, Inc.	10/09/2006
Loctite Threadlocker Blue 242 Removable	Henkel Corporation	01/03/2013
ManVer 2 Hardness Indicator	Hach Company	10/01/2012
MOLYBDATE 3 REAGENT FOR SILICA	Hach Company	10/15/2009
MOLYBDATE 3 REAGENT FOR SILICA	Hach Company	08/25/2012
Molybdate Reagent	Hach Company	09/02/2013
OPTISPERSE HP2100	GE Betz, Inc.	04/26/2012
OPTISPERSE HP3100	GE Betz, Inc.	09/18/2013
P-O-W PLUS AEROSOL	CHEMSEARCH DIV. OF NCH CORP.	11/03/2010
P-O-W PLUS AEROSOL	CHEMSEARCH DIV. OF NCH CORP.	11/03/2010
PHENOL RED	Hach Company	12/16/2009
PHENOL RED	Hach Company	10/01/2010
Phenolphthalein Indicator Powder	Hach Company	12/22/2012 77-09-8
Phosphorus HR TNT Reagent B	Hach Company	05/12/2007
Phosphorus HR TNT Reagent B	Hach Company	08/25/2010
Phosphorus HR TNT Reagent C	Hach Company	05/10/2007

Phosphorus HR TNT844R	Hach Company	05/05/2007	7664-93-9
Phosphorus HR TNT844R	Hach Company	08/13/2010	7664-93-9
pHREEdom 5200M	Nalco Company	01/29/2013	
PIG Multi-Purpose Repair Putty	NEW PIG CORPORATION	06/12/2013	
Pocket Dial Thermometer	Hach Company	08/17/2007	
Potassium Chloride Conductivity Standard Solution	Hach Company	09/28/2009	7447-40-7
PRO LSPR 6PK 2X MRKNG SAFETY RED	Rust-Oleum Corporation	02/20/2013	
PURELL Instant Hand Sanitizer	GOJO Industries, Inc.	04/29/2013	
QUAKER STATE HD SAE Motor Oil-All Grades	SOPUS Products	04/16/2008	
QuikSoil 2500	GOC Technologies, Inc.	04/14/2009	
Silica Sand	Edgar Minerals, Inc.	04/23/2012	14808-60-7
Sodium Chloride Standard Solution, 85.47 +/- 0.85 mg/l NaCl	Hach Company	10/08/2013	7647-14-5
Solvair Select 300 & 350 Sodium Bicarbonate	Solvay Chemicals	07/16/2012	
SPECTRUS NX1100	GE Betz, Inc.	08/23/2013	52-51-7, 10377-60-3, 55965-84-9, 7786-30-3
STEAMATE NA1321	GE Betz, Inc.	10/28/2011	1336-21-6
Sulfuric Acid 0.1600 -/+ 0.0008 N	Hach Company	10/15/2009	
Sulfuric Acid 1.600 +/- 0.008 N	Hach Company	02/06/2012	
Sulfuric Acid 1.600 +/- 0.008 N	Hach Company	11/06/2012	
Sulfuric Acid, 66 Degree Baume (93% All Grades)	Brenntag Pacific, Inc.	08/24/2007	7664-93-9
Sulfuric Acid, Concentrated (98% & 93%) H2SO4	Mosaic Company	05/05/2006	7664-93-9
Terra Alba F&P	United States Gypsum Company	01/01/2011	
TitraVer Solution (Sodium EDTA) 0.0800 +/- 0.0004 M	Hach Company	03/04/2010	
TitraVer Solution (Sodium EDTA) 0.0800 +/- 0.0004 M	Hach Company	11/23/2012	
TNT 844 A	Hach Company	08/13/2010	
WD-40 Aerosol	WD-40 Company	03/10/2013	
WD-40 Aerosol	WD-40 Company	03/10/2013	
Windex Original Glass Cleaner	S. C. Johnson & Son, Inc.	01/06/2010	
Wite-Out Water Based Correction Fluid	Wite-Out Products, Inc.	01/31/2007	

APPENDIX C

GROUND WATER MONITORING WELL DATA INFORMATION

WELL: DER11T4

Species	Unit	Sample Date 7/15/08	10/3/08	1/14/09	4/6/09	GCTL ug/L	NADSC ug/L
AG	µg/L	0.5	0.4	0.4	0.4	100	1,000
AL	µg/L	83	318*	87.7	120	200	2,000
AS	µg/L	4	4	4	4	10	100
BA	µg/L	6.2	7.5	6.3	11.4	2,000	20,000
BE	µg/L	0.06	0.06	0.06	0.06	4	40
CA	mg/L	8.5	7.06	7.26	8.22	NS	NS
CD	µg/L	0.3	0.3	0.3	0.3	5	50
CL	mg/L	50	44	45	45	250,000	2,500,000
CO	µg/L	1	1	1	1	420	4,200
COLOR	pcu	10	17	13	14	NS	NS
COND	µS/cm	417.4	407	383.6	388	NS	NS
CR	µg/L	2.2	2.1	1.8	2.4	100	1,000
CU	µg/L	1	1	1	1	1,000	10,000
DO	mg/L	0.2	0.5	0.3	0.3	NS	NS
FE	µg/L	806*	571*	430*	1,150*	300	3,000
GROSS ALPHA	pCi/L	4.9	8	5	12.2	15	150
HG	µg/L	0.1	0.1	0.1	0.1	2	20
K	mg/L	0.27	0.3	0.3	0.28	NS	NS
MG	mg/L	3.23	2.82	2.82	3.07	NS	NS
MN	µg/L	13	10	9.6	10.1	50	500
MO	µg/L	2	1	1	1	35	350
NA	mg/L	56	60.9	64.4	62.3	160,000	1,600,000
NI	µg/L	2.4	1	1	1	100	1,000
NPDOC	mg/L	16	19	14	16	NS	NS
PB	µg/L	4	4	4	4	15	150
PH	SU	5.46	5.37	5.39	5.47	NS	NS
REDOX	µg/L	42.1	15.4	29.1	-151.7	NS	NS
SE	µg/L	4	4	4	4	50	500
SO4_IC	mg/L	80	84	76	72	250,000	2,500,000
SR	µg/L	5.7	4.6	4.5	4.7	4,200	42,000
TDS	mg/L	222	256	239	232	500,000	5,000,000
TEMP	°C	24.8	24.7	18.3	19.8	NS	NS
TSS	mg/L	2.5	2.5	2.5	2.5	NS	NS
TURB	ntu	1	1	1	1	NS	NS
V	µg/L	3.4	2.7	2.1	2.8	49	490
WELL_DPH	ft	3.07	4.73	4.91	3.33	NS	NS
ZN	µg/L	2.9	2.2	2.7	2.9	5,000	50,000

Notes:
GCTL = Groundwater Cleanup Target Levels pursuant to Chapter 62-777 of the Florida Administrative Code.
NADSC = Natural attenuation default source concentrations pursuant to Chapter 62-777 of the Florida Administrative Code.
* = Exceedance of GCTL.
** = Exceedance of NADSC.
NS = No Standard.
ug/L = Micrograms per liter.
ntu = Nephelometric turbidity units
pcu = Platinum-cobalt units
ft = feet
SU = Standard Units
mg/L = Milligrams per liter.
pCi/L = PicoCurries per liter
°C = Degrees Centigrade
uS/cm = microSiemens per centimeter

Source: ECT, 2009

ECT Environmental Consulting & Technology, Inc

WELL: DER10T8

Species	Unit	Sample Date 7/15/08	10/3/08	1/14/09	4/6/09	GCTL ug/L	NADSC ug/L
AG	µg/L	0.5	0.4	0.4	0.4	100	1,000
AL	µg/L	22.2	26.3	14.8	30.9	200	2,000
AS	µg/L	4	4	4	4	10	100
BA	µg/L	6.7	7.8	7.2	10.2	2,000	20,000
BE	µg/L	0.06	0.06	0.06	0.06	4	40
CA	mg/L	13.9	15	14.2	15.6	NS	NS
CD	µg/L	0.3	0.3	0.3	0.3	5	50
CL	mg/L	5.6	5.5	3.9	4.5	250,000	2,500,000
CO	µg/L	1	1	1	1	420	4,200
COLOR	pcu	5	5	5	6	NS	NS
COND	µS/cm	119.8	117	112.9	123.4	NS	NS
CR	µg/L	1	1	1	1	100	1,000
CU	µg/L	1	1	1	1	1,000	10,000
DO	mg/L	4.3	0.3	0.4	0.2	NS	NS
FE	µg/L	4.4	28.4	171	330*	300	3,000
GROSS ALPHA	pCi/L	0.2	7.3	6.1	1	15	150
HG	µg/L	0.1	0.1	0.1	0.1	2	20
K	mg/L	0.234	0.3	0.22	0.17	NS	NS
MG	mg/L	2.54	2.97	2.7	2.94	NS	NS
MN	µg/L	8.6	11.9	13.6	16.7	50	500
MO	µg/L	2	1	1	1	35	350
NA	mg/L	2.7	2.68	3.73	2.14	160,000	1,600,000
NI	µg/L	1	1	1	1	100	1,000
NPDOC	mg/L	1.8	1.9	1.9	2.2	NS	NS
PB	µg/L	4	4	4	4	15	150
PH	SU	5.7	5.36	5.45	5.47	NS	NS
REDOX	µg/L	507.7	89	17	-139.2	NS	NS
SE	µg/L	4	4	4	4	50	500
SO4_IC	mg/L	20	21	21	19	250,000	2,500,000
SR	µg/L	8.5	9.9	10	10.9	4,200	42,000
TDS	mg/L	65	66	63	72	500,000	5,000,000
TEMP	°C	24.5	25.6	19.5	17.4	NS	NS
TSS	mg/L	2.5	2.5	2.5	2.5	NS	NS
TURB	ntu	1	1	1	1	NS	NS
V	µg/L	28.4	12.6	1.5	1	49	490
WELL_DPH	ft	4.55	7.43	6.53	5.4	NS	NS
ZN	µg/L	3.5	3.3	6.9	3	5,000	50,000

Notes:
GCTL = Groundwater Cleanup Target Levels pursuant to Chapter 62-777 of the Florida Administrative Code.
NADSC = Natural attenuation default source concentrations pursuant to Chapter 62-777 of the Florida Administrative Code.
* = Exceedance of GCTL.
** = Exceedance of NADSC.
NS = No Standard.
ug/L = Micrograms per liter.
ntu = Nephelometric turbidity units
pcu = Platinum-cobalt units
ft = feet
SU = Standard Units
mg/L = Milligrams per liter.
pCi/L = PicoCurries per liter
°C = Degrees Centigrade
uS/cm = microSiemens per centimeter

Source: ECT, 2009

ECT Environmental Consulting & Technology, Inc.

WELL: DER9T5

Species	Unit	7/15/08	10/3/08	1/14/09	4/6/09	GCTL ug/L	NADSC ug/L
AG	µg/L	0.5	0.4	0.4	0.4	100	1,000
AL	µg/L	23.3	35.3	1	13.5	200	2,000
AS	µg/L	4	4	4	4	10	100
BA	µg/L	25.2	21	20.4	21.3	2,000	20,000
BE	µg/L	0.06	0.06	0.06	0.06	4	40
CA	mg/L	11.3	10.3	13.9	11.3	NS	NS
CD	µg/L	0.3	0.3	0.3	0.3	5	50
CL	mg/L	25	22	17	10	250,000	2,500,000
CO	µg/L	1	1	1	1	420	4,200
COLOR	pcu	5	5	5	11	NS	NS
COND	µS/cm	223	205.6	160.7	145.5	NS	NS
CR	µg/L	1	1	1	1	100	1,000
CU	µg/L	1	1	1	1	1,000	10,000
DO	mg/L	0.2	0.4	1.1	0.2	NS	NS
FE	µg/L	1,520*	1,600*	12,00*	2,010*	300	3,000
GROSS ALPHA	pCi/L	3.6	4.9	5.3	3.4	15	150
HG	µg/L	0.1	0.1	0.1	0.1	2	20
K	mg/L	4.1	4.25	3.11	2.65	NS	NS
MG	mg/L	2.78	2.9	3.08	2.6	NS	NS
MN	µg/L	29.3	22.9	22.8	24	50	500
MO	µg/L	2	1	1	1	35	350
NA	mg/L	20.6	19.8	13.9	5.89	160,000	1,600,000
NI	µg/L	1	1	1	1	100	1,000
NPDOC	mg/L	3.3	3.7	3	3.4	NS	NS
PB	µg/L	4	4	4	4	15	150
PH	SU	5.57	5.34	5.61	5.57	NS	NS
REDOX	µg/L	68.5	-6.9	62.7	18.6	NS	NS
SE	µg/L	4	4	4	4	50	500
SO4_IC	mg/L	12	20	12	12	250,000	2,500,000
SR	µg/L	71.3	65.7	74.6	58.6	4,200	42,000
TDS	mg/L	117	108	83	86	500,000	5,000,000
TEMP	°C	27	25	16.9	17.3	NS	NS
TSS	mg/L	2.5	2.5	2.5	2.5	NS	NS
TURB	ntu	1	1	1	1	NS	NS
V	µg/L	2	1	1	1	49	490
WELL_DPH	ft	4.52	5.64	6.07	4.58	NS	NS
ZN	µg/L	3.1	2.6	4.8	3.9	5,000	50,000

Notes:
GCTL = Groundwater Cleanup Target Levels pursuant to Chapter 62-777 of the Florida Administrative Code.
NADSC = Natural attenuation default source concentrations pursuant to Chapter 62-777 of the Florida Administrative Code.
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** = Exceedance of NADSC.
NS = No Standard.
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ntu = Nephelometric turbidity units
pcu = Platinum-cobalt units
ft = feet
SU = Standard Units
mg/L = Milligrams per liter.
pCi/L = PicoCurries per liter
°C = Degrees Centigrade
uS/cm = microSiemens per centimeter

Source: ECT, 2009

ECT Environmental Consulting & Technology, Inc

WELL: DER7T2

Species	Unit	Sample Date 7/15/08	10/3/08	1/14/09	4/6/09	GCTL ug/L	NADSC ug/L
AG	µg/L	0.5	0.4	0.4	0.4	100	1,000
AL	µg/L	91.9	130	81.7	122	200	2,000
AS	µg/L	4	4	4	4	10	100
BA	µg/L	87.8	46.7	22.3	88.7	2,000	20,000
BE	µg/L	0.06	0.06	0.06	0.06	4	40
CA	mg/L	32.2	19.6	16.1	57.7	NS	NS
CD	µg/L	0.3	0.3	0.3	0.3	5	50
CL	mg/L	200	140	18	220	250,000	2,500,000
CO	µg/L	1	1	1	1	420	4,200
COLOR	pcu	5	32	30	47	NS	NS
COND	µS/cm	908	590	166.9	975	NS	NS
CR	µg/L	1	3.5	3	1	100	1,000
CU	µg/L	1	1	1	1	1,000	10,000
DO	mg/L	1.4	0.3	0.4	1	NS	NS
FE	µg/L	431*	8,000**	4,000**	1,340*	300	3,000
GROSS ALPHA	pCi/L	2.6	4.3	1.1	3.3	15	150
HG	µg/L	0.1	0.1	0.1	0.1	2	20
K	mg/L	0.19	0.6	0.17	0.57	NS	NS
MG	mg/L	11	8.92	4.21	19.7	NS	NS
MN	µg/L	7.2	12.1	6	10.7	50	500
MO	µg/L	2	1	1	1.5	35	350
NA	mg/L	70.8	69.4	13.5	101	160,000	1,600,000
NI	µg/L	1	2.9	1	1	100	1,000
NPDOC	mg/L	3.5	12	9.3	18	NS	NS
PB	µg/L	4	4	4	4	15	150
PH	SU	5.1	5.36	5.8	5.84	NS	NS
REDOX	µg/L	487	7	78.5	219.7	NS	NS
SE	µg/L	4	4	4	4	50	500
SO4_IC	mg/L	4,700**	20	16	62	250,000	2,500,000
SR	µg/L	122	76.6	52.9	235	4,200	42,000
TDS	mg/L	395	362	105	551*	500,000	5,000,000
TEMP	°C	26.6	24.6	18.2	17.9	NS	NS
TSS	mg/L	2.5	2.5	2.5	2.5	NS	NS
TURB	ntu	1	1	2.87	1	NS	NS
V	µg/L	2	1	1	2.8	49	490
WELL_DPH	ft	3.75	5.22	5.96	2.93	NS	NS
ZN	µg/L	1180	125	212	1540	5,000	50,000

Notes:
GCTL = Groundwater Cleanup Target Levels pursuant to Chapter 62-777 of the Florida Administrative Code.
NADSC = Natural attenuation default source concentrations pursuant to Chapter 62-777 of the Florida Administrative Code.
* = Exceedance of GCTL.
** = Exceedance of NADSC.
NS = No Standard.
ug/L = Micrograms per liter.
ntu = Nephelometric turbidity units
pcu = Platinum-cobalt units
ft = feet
SU = Standard Units
mg/L = Milligrams per liter.
pCi/L = PicoCurries per liter
°C = Degrees Centigrade
uS/cm = microSiemens per centimeter

Source: ECT, 2009

ECT Environmental Consulting & Technology, Inc.

WELL: DER6T8

Species	Unit	Sample Date 7/15/08	10/3/08	1/14/09	4/6/09	GCTL ug/L	NADSC ug/L
AG	µg/L	0.5	0.4	0.4	0.4	100	1,000
AL	µg/L	365*	1,830*	32.1	1,560*	200	2,000
AS	µg/L	4	4	4	4	10	100
BA	µg/L	11.6	14	19.3	16.6	2,000	20,000
BE	µg/L	0.06	0.06	0.06	0.06	4	40
CA	mg/L	22.4	28.7	61.4	19.4	NS	NS
CD	µg/L	0.3	0.3	0.3	0.3	5	50
CL	mg/L	10	11	9.2	9.7	250,000	2,500,000
CO	µg/L	1	1	1.7	1	420	4,200
COLOR	pcu	17	50	12	55	NS	NS
COND	µS/cm	273.7	286.9	568	194.6	NS	NS
CR	µg/L	7.6	2.1	1	3.6	100	1,000
CU	µg/L	1	1	1	1	1,000	10,000
DO	mg/L	4.2	0.6	0.7	3.2	NS	NS
FE	µg/L	316*	1,510*	386*	1,850*	300	3,000
GROSS ALPHA	pCi/L	0.8	6	3.5	4.8	15	150
HG	µg/L	0.1	0.1	0.1	0.1	2	20
K	mg/L	0.17	0.38	0.17	0.65	NS	NS
MG	mg/L	12.7	17.2	36.9	10.2	NS	NS
MN	µg/L	2.9	31.8	82.8*	18.7	50	500
MO	µg/L	2	1	1	1	35	350
NA	mg/L	8.02	8.2	15.2	7.23	160,000	1,600,000
NI	µg/L	7.3	2	1	1.9	100	1,000
NPDOC	mg/L	6.9	7.5	2.6	15	NS	NS
PB	µg/L	4	4	4	4	15	150
PH	SU	6.39	6.38	6.77	6.04	NS	NS
REDOX	µg/L	238	162.8	99.9	132.5	NS	NS
SE	µg/L	4	4	4	4	50	500
SO4_IC	mg/L	11	6	1.2	4.4	250,000	2,500,000
SR	µg/L	31.9	43.9	94.7	29.6	4,200	42,000
TDS	mg/L	140	182	293	127	500,000	5,000,000
TEMP	°C	28.1	26.1	15.5	21	NS	NS
TSS	mg/L	2.5	14	2.5	15.7	NS	NS
TURB	ntu	2.7	15.6	1.1	11.3	NS	NS
V	µg/L	3.2	1.8	1	3.3	49	490
WELL_DPH	ft	2.73	2.96	6.2	2.38	NS	NS
ZN	µg/L	3.5	5.8	4.5	3.3	5,000	50,000

Notes:
GCTL = Groundwater Cleanup Target Levels pursuant to Chapter 62-777 of the Florida Administrative Code.
NADSC = Natural attenuation default
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** = Exceedance of NADSC.
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pcu = Platinum-cobalt units
ft = feet
SU = Standard Units
mg/L = Milligrams per liter.
pCi/L = PicoCurries per liter
°C = Degrees Centigrade
uS/cm = microSiemens per centimeter

Source: ECT, 2009

ECT Environmental Consulting & Technology, Inc.

WELL: DER6T1

Species	Unit	Sample Date 7/15/08	10/3/08	1/14/09	4/6/09	GCTL ug/L	NADSC ug/L
AG	µg/L	0.5	0.4	0.4	0.4	100	1,000
AL	µg/L	144	113	83.2	114	200	2,000
AS	µg/L	4	4	4	4	10	100
BA	µg/L	10.4	9.1	7.7	13.1	2,000	20,000
BE	µg/L	0.06	0.06	0.06	0.06	4	40
CA	mg/L	3.14	2.26	2.81	3.84	NS	NS
CD	µg/L	0.3	0.3	0.3	0.3	5	50
CL	mg/L	20	17	19	13	250,000	2,500,000
CO	µg/L	1	1	1	1	420	4,200
COLOR	pcu	5	5	5	7	NS	NS
COND	µS/cm	88	96.2	96.9	83.2	NS	NS
CR	µg/L	1	1	1	1	100	1,000
CU	µg/L	1	1	1	1	1,000	10,000
DO	mg/L	0.3	0.3	0.2	0.2	NS	NS
FE	µg/L	219	119	129	212	300	3,000
GROSS ALPHA	pCi/L	0	1.3	0.6	0	15	150
HG	µg/L	0.1	0.1	0.1	0.1	2	20
K	mg/L	0.01	0.05	0.05	0.03	NS	NS
MG	mg/L	1	0.61	0.86	0.76	NS	NS
MN	µg/L	1.8	1	1	1.2	50	500
MO	µg/L	2	1	1	1	35	350
NA	mg/L	8.3	12.8	19.5	9.4	160,000	1,600,000
NI	µg/L	1.6	1	1	1	100	1,000
NPDOC	mg/L	0.75	0.96	1.1	1.1	NS	NS
PB	µg/L	4	4	4	4	15	150
PH	SU	5.2	5.29	5.21	5.31	NS	NS
REDOX	µg/L	243.5	133.9	147	139.3	NS	NS
SE	µg/L	4	4	4	4	50	500
SO4_IC	mg/L	1.2	9	7.1	7.2	250,000	2,500,000
SR	µg/L	4.7	3.1	3.8	3.7	4,200	42,000
TDS	mg/L	30	45	43	45	500,000	5,000,000
TEMP	°C	24.8	25.6	19.1	20.1	NS	NS
TSS	mg/L	2.5	2.5	2.5	2.5	NS	NS
TURB	ntu	1	1	1	1	NS	NS
V	µg/L	2	1	1	1	49	490
WELL_DPH	ft	6.38	6.38	7.58	4.78	NS	NS
ZN	µg/L	4.3	3.6	4	4.2	5,000	50,000

Notes:
GCTL = Groundwater Cleanup Target Levels pursuant to Chapter 62-777 of the Florida Administrative Code.
NADSC = Natural attenuation default source concentrations pursuant to Chapter 62-777 of the Florida Administrative Code.
* = Exceedance of GCTL.
** = Exceedance of NADSC.
NS = No Standard.
ug/L = Micrograms per liter.
ntu = Nephelometric turbidity units
pcu = Platinum-cobalt units
ft = feet
SU = Standard Units
mg/L = Milligrams per liter.
pCi/L = PicoCurries per liter
°C = Degrees Centigrade
uS/cm = microSiemens per centimeter

Source: ECT, 2009

ECT Environmental Consulting & Technology, Inc.

WELL: DER6T4

Species	Unit	Sample Date 7/15/08	10/3/08	1/14/09	4/6/09	GCTL ug/L	NADSC ug/L
AG	µg/L	0.5	0.4	0.4	0.4	100	1,000
AL	µg/L	650*	971*	290*	1,650*	200	2,000
AS	µg/L	4	4	4	4	10	100
BA	µg/L	31.7	26.1	29.7	29.4	2,000	20,000
BE	µg/L	0.06	0.06	0.06	0.13	4	40
CA	mg/L	61.9	56.9	69.9	58.7	NS	NS
CD	µg/L	0.3	0.3	0.3	0.3	5	50
CL	mg/L	150	150	130	210	250,000	2,500,000
CO	µg/L	1	1.5	1	2.9	420	4,200
COLOR	pcu	13	12	10	12	NS	NS
COND	µS/cm	877	2,248	2,069	3,802	NS	NS
CR	µg/L	1	1.6	1	1.5	100	1,000
CU	µg/L	1.2	1	1	1	1,000	10,000
DO	mg/L	1.4	0.2	0.4	0.2	NS	NS
FE	µg/L	4,500**	10,700**	2,700*	8,800**	300	3,000
GROSS ALPHA	pCi/L	41*	24*	12.3	22*	15	150
HG	µg/L	0.1	0.1	0.1	0.1	2	20
K	mg/L	15.2	5.75	10.1	12.9	NS	NS
MG	mg/L	24.5	34.3	28.1	37.4	NS	NS
MN	µg/L	31.8	62*	33.2	55*	50	500
MO	µg/L	10.7	1	2.9	1	35	350
NA	mg/L	656*	337*	414*	735*	160,000	1,600,000
NI	µg/L	11.6	9.7	7.4	12.8	100	1,000
NPDOC	mg/L	10	10	7.8	13	NS	NS
PB	µg/L	4	4	4	4	15	150
PH	SU	5.99	4.89	5.93	5.3	NS	NS
REDOX	µg/L	7.7	11.5	92.8	-14.1	NS	NS
SE	µg/L	4	4	4	4	50	500
SO4_IC	mg/L	1,200*	890*	890*	1,600*	250,000	2,500,000
SR	µg/L	367	198	454	270	4,200	42,000
TDS	mg/L	2,190*	1,820*	1,790*	2,750*	500,000	5,000,000
TEMP	°C	26.1	24.3	18.1	18.5	NS	NS
TSS	mg/L	2.5	2.5	2.5	2.5	NS	NS
TURB	ntu	1.78	9.76	1	1	NS	NS
V	µg/L	31.5	35.6	16.5	46.5	49	490
WELL_DPH	ft	2.98	4.28	3.23	3.49	NS	NS
ZN	µg/L	4.9	8.2	4.2	5.4	5,000	50,000

Notes:
GCTL = Groundwater Cleanup Target Levels pursuant to Chapter 62-777 of the Florida Administrative Code.
NADSC = Natural attenuation default source concentrations pursuant to Chapter 62-777 of the Florida Administrative Code.
* = Exceedance of GCTL.
** = Exceedance of NADSC.
NS = No Standard.
ug/L = Micrograms per liter.
ntu = Nephelometric turbidity units
pcu = Platinum-cobalt units
ft = feet
SU = Standard Units
mg/L = Milligrams per liter.
pCi/L = PicoCurries per liter
°C = Degrees Centigrade
uS/cm = microSiemens per centimeter

Source: ECT, 2009

ECT Environmental Consulting & Technology, Inc.

WELL: DER4T5

Species	Unit	Sample Date 7/15/08	10/3/08	1/14/09	4/6/09	GCTL ug/L	NADSC ug/L
AG	µg/L	0.5	0.4	0.4	0.4	100	1,000
AL	µg/L	202*	234*	96.4	168	200	2,000
AS	µg/L	4	4	4	4	10	100
BA	µg/L	20.7	21.4	15.7	22.9	2,000	20,000
BE	µg/L	0.06	0.06	0.06	0.06	4	40
CA	mg/L	67.4	79	75.7	93.1	NS	NS
CD	µg/L	4.6	2.3	1	1.2	5	50
CL	mg/L	9.5	5.5	8.3	3.7	250,000	2,500,000
CO	µg/L	1	1	1	1	420	4,200
COLOR	pcu	160	150	60	90	NS	NS
COND	µS/cm	716	637	545	676	NS	NS
CR	µg/L	1	1.8	1	1.6	100	1,000
CU	µg/L	1	1	1	1	1,000	10,000
DO	mg/L	0.2	0.2	0.3	0.3	NS	NS
FE	µg/L	63,800**	35,000**	20,000**	31,300**	300	3,000
GROSS ALPHA	pCi/L	1.5	3.7	1.6	1.6	15	150
HG	µg/L	0.1	0.1	0.1	0.1	2	20
K	mg/L	0.8	1.21	0.59	0.81	NS	NS
MG	mg/L	22.6	18.7	17.6	25	NS	NS
MN	µg/L	146*	121*	103*	139*	50	500
MO	µg/L	2	1	1	1	35	350
NA	mg/L	17.4	14.9	12.9	13.1	160,000	1,600,000
NI	µg/L	1	1	1	1	100	1,000
NPDOC	mg/L	49	46	20	38	NS	NS
PB	µg/L	4	4	4	4	15	150
PH	SU	6.07	5.57	5.94	6.06	NS	NS
REDOX	µg/L	-7.1	-32.6	2.2	-53.8	NS	NS
SE	µg/L	4	4	4	4	50	500
SO4_IC	mg/L	0.055	0.055	9.6	5.3	250,000	2,500,000
SR	µg/L	65.7	75	68.6	83.6	4,200	42,000
TDS	mg/L	458	422	339	430	500,000	5,000,000
TEMP	°C	25.5	24.8	20.7	20.1	NS	NS
TSS	mg/L	2.5	2.5	2.5	2.5	NS	NS
TURB	ntu	1	1	1.39	1	NS	NS
V	µg/L	2	1	1	1	49	490
WELL_DPH	ft	9.81	10.68	10.79	10.18	NS	NS
ZN	µg/L	8.6	8	5.2	6.2	5,000	50,000

Notes:
GCTL = Groundwater Cleanup Target Levels pursuant to Chapter 62-777 of the Florida Administrative Code.
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mg/L = Milligrams per liter.
pCi/L = PicoCurries per liter
°C = Degrees Centigrade
uS/cm = microSiemens per centimeter

Source: ECT, 2009

ECT Environmental Consulting & Technology, Inc.

WELL: DER3T7

Species	Unit	Sample Date 7/15/08	10/3/08	1/14/09	4/6/09	GCTL ug/L	NADSC ug/L
AG	µg/L	0.5	0.4	0.4	0.4	100	1,000
AL	µg/L	39.9	30.6	1	5.5	200	2,000
AS	µg/L	4	4	4	4	10	100
BA	µg/L	6.2	4.1	4.6	13.3	2,000	20,000
BE	µg/L	0.06	0.06	0.06	0.06	4	40
CA	mg/L	36.6	27.1	28.2	74.4	NS	NS
CD	µg/L	0.3	0.3	0.3	0.3	5	50
CL	mg/L	15	18	15	100	250,000	2,500,000
CO	µg/L	1	1	1	1	420	4,200
COLOR	pcu	15	15	10	17	NS	NS
COND	µS/cm	398.1	497	359.8	1204	NS	NS
CR	µg/L	1	1	1	1	100	1,000
CU	µg/L	1	1	1	1	1,000	10,000
DO	mg/L	1.1	0.4	1.8	1.3	NS	NS
FE	µg/L	353*	4,100**	4,100**	1,220*	300	3,000
GROSS ALPHA	pCi/L	1.2	7.8	1.5	0.8	15	150
HG	µg/L	0.1	0.1	0.1	0.1	2	20
K	mg/L	3.42	1.79	1.21	4.82	NS	NS
MG	mg/L	6.36	6.19	5.94	16.3	NS	NS
MN	µg/L	15.8	47.6	39	25	50	500
MO	µg/L	10.3	1.4	1.5	15.5	35	350
NA	mg/L	32.3	56	40	153	160,000	1,600,000
NI	µg/L	3.6	7.2	4.6	7.3	100	1,000
NPDOC	mg/L	4.1	2.8	2.1	4.4	NS	NS
PB	µg/L	4	4	4	4	15	150
PH	SU	6.47	6.02	6.13	6.22	NS	NS
REDOX	µg/L	174.5	-16.4	38.1	136.5	NS	NS
SE	µg/L	4	4	4	4	50	500
SO4_IC	mg/L	65	110	55	340*	250,000	2,500,000
SR	µg/L	189	156	149	340	4,200	42,000
TDS	mg/L	241	295	205	774*	500,000	5,000,000
TEMP	°C	27.5	25.1	15.9	19.8	NS	NS
TSS	mg/L	2.5	2.5	2.5	2.5	NS	NS
TURB	ntu	1.81	1	1	1	NS	NS
V	µg/L	11.5	7.7	6	7.3	49	490
WELL_DPH	ft	1.57	5.23	6.4	3.1	NS	NS
ZN	µg/L	3.7	5.8	6.9	4.5	5,000	50,000

Notes:
GCTL = Groundwater Cleanup Target Levels pursuant to Chapter 62-777 of the Florida Administrative Code.
NADSC = Natural attenuation default source concentrations pursuant to Chapter 62-777 of the Florida Administrative Code.
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SU = Standard Units
mg/L = Milligrams per liter.
pCi/L = PicoCurries per liter
°C = Degrees Centigrade
uS/cm = microSiemens per centimeter

Source: ECT, 2009

Well Depths

Well	Depth	Diameter
R11T4	15.17	2
R10T8	14.53	2
R9T5	14.92	2
R7T2	10.04	2
R6T8	14.13	2
R6T1	15.79	2
R6T4	14.13	2
R4T5	15.08	2
R3T7	11.54	4


N
Image © 2009 DigitalGlobe
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Google™
Pointer 29°45'38.84" N 82°23'38.54" W elev 173 ft Streaming 100%
Eye alt 7579 ft

APPENDIX D

ENVIRONMENTAL DATABASE REPORT

GRE - Gainesville
6878 US Highway 441
Gainesville, FL 32653

Inquiry Number: 03855976.1r
February 19, 2014

FirstSearch Report

EDR® Environmental Data Resources Inc

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

Search Summary Report

TARGET SITE **6878 US HIGHWAY 441**
GAINESVILLE, FL 32653

Category	Sel	Site	1/8	1/4	1/2	> 1/2	ZIP	TOTALS
NPL	Y	0	0	0	0	0	0	0
NPL Delisted	Y	0	0	0	0	0	0	0
CERCLIS	Y	0	0	0	0	-	0	0
NFRAP	Y	0	0	0	0	-	0	0
RCRA COR ACT	Y	0	0	0	0	0	0	0
RCRA TSD	Y	0	0	0	0	-	0	0
RCRA GEN	Y	0	0	0	-	-	3	3
Federal IC / EC	Y	0	0	0	0	-	0	0
ERNS	Y	0	-	-	-	-	0	0
State/Tribal CERCLIS	Y	0	0	0	0	0	0	0
State/Tribal SWL	Y	0	0	0	0	-	0	0
State/Tribal LTANKS	Y	0	0	0	0	-	0	0
State/Tribal Tanks	Y	0	0	0	-	-	0	0
State/Tribal IC / EC	Y	0	0	0	0	-	0	0
State/Tribal VCP	Y	0	0	0	0	-	0	0
ST/Tribal Brownfields	Y	0	0	0	0	-	0	0
US Brownfields	Y	0	0	0	0	-	0	0
Other Haz Sites	Y	0	-	-	-	-	2	2
Spills	Y	0	-	-	-	-	0	0
Other	Y	1	-	-	-	-	17	18
	- Totals --	1	0	0	0	0	22	23

Search Summary Report

TARGET SITE: **6878 US HIGHWAY 441**
GAINESVILLE, FL 32653

Category	Database	Update	Radius	Site	1/8	1/4	1/2	> 1/2	ZIP	TOTALS
NPL	NPL	10/25/2013	1.000	0	0	0	0	0	0	0
	Proposed NPL	10/25/2013	1.000	0	0	0	0	0	0	0
NPL Delisted	Delisted NPL	10/25/2013	1.000	0	0	0	0	0	0	0
CERCLIS	CERCLIS	10/25/2013	0.500	0	0	0	0	-	0	0
NFRAP	CERC-NFRAP	10/25/2013	0.500	0	0	0	0	-	0	0
RCRA COR ACT	CORRACTS	09/10/2013	1.000	0	0	0	0	0	0	0
RCRA TSD	RCRA-TSDF	09/10/2013	0.500	0	0	0	0	-	0	0
RCRA GEN	RCRA-LQG	09/10/2013	0.250	0	0	0	-	-	0	0
	RCRA-SQG	09/10/2013	0.250	0	0	0	-	-	2	2
	RCRA-CESQG	09/10/2013	0.250	0	0	0	-	-	1	1
Federal IC / EC	US ENG CONTROLS	12/17/2013	0.500	0	0	0	0	-	0	0
	US INST CONTROL	12/17/2013	0.500	0	0	0	0	-	0	0
ERNS	ERNS	09/30/2013	TP	0	-	-	-	-	0	0
State/Tribal CERCLIS	SHWS	09/10/2013	1.000	0	0	0	0	0	0	0
State/Tribal SWL	SWF/LF	01/20/2014	0.500	0	0	0	0	-	0	0
State/Tribal LTANKS	LUST	10/10/2013	0.500	0	0	0	0	-	0	0
	LAST	12/19/2013	0.500	0	0	0	0	-	0	0
	INDIAN LUST	02/01/2013	0.500	0	0	0	0	-	0	0
State/Tribal Tanks	UST	10/10/2013	0.250	0	0	0	-	-	0	0
	AST	10/10/2013	0.250	0	0	0	-	-	0	0
	INDIAN UST	02/01/2013	0.250	0	0	0	-	-	0	0
State/Tribal IC / EC	ENG CONTROLS	12/01/2013	0.500	0	0	0	0	-	0	0
	INST CONTROL	12/01/2013	0.500	0	0	0	0	-	0	0
State/Tribal VCP	VCP	10/09/2013	0.500	0	0	0	0	-	0	0
ST/Tribal Brownfields	BROWNFIELDS	01/06/2014	0.500	0	0	0	0	-	0	0

Search Summary Report

TARGET SITE: **6878 US HIGHWAY 441**
GAINESVILLE, FL 32653

Category	Database	Update	Radius	Site	1/8	1/4	1/2	> 1/2	ZIP	TOTALS
US Brownfields	US BROWNFIELDS	09/24/2013	0.500	0	0	0	0	-	0	0
Other Haz Sites	US CDL	12/04/2013	TP	0	-	-	-	-	0	0
	Fl Sites	12/31/1989	1.000	0	0	0	0	0	1	1
	PRIORITYCLEANERS	10/03/2013	0.250	0	0	0	-	-	1	1
Spills	HMIRS	09/30/2013	TP	0	-	-	-	-	0	0
	SPILLS	10/10/2013	TP	0	-	-	-	-	0	0
	SPILLS 90	12/10/2012	TP	0	-	-	-	-	0	0
	SPILLS 80	09/01/2001	TP	0	-	-	-	-	0	0
Other	RCRA NonGen / NLR	09/10/2013	TP	0	-	-	-	-	1	1
	TRIS	12/31/2011	TP	0	-	-	-	-	0	0
	TSCA	12/31/2006	TP	0	-	-	-	-	0	0
	FTTS	04/09/2009	TP	0	-	-	-	-	0	0
	SSTS	12/31/2009	TP	0	-	-	-	-	0	0
	ICIS	07/20/2011	TP	0	-	-	-	-	0	0
	PADS	06/01/2013	TP	0	-	-	-	-	0	0
	MLTS	07/22/2013	TP	0	-	-	-	-	0	0
	RADINFO	09/30/2013	TP	0	-	-	-	-	0	0
	FINDS	03/08/2013	TP	1	-	-	-	-	16	17
	RAATS	04/17/1995	TP	0	-	-	-	-	0	0
	DRYCLEANERS	01/13/2014	0.250	0	0	0	-	-	0	0
	FL Cattle Dip. Vats	02/04/2005	TP	0	-	-	-	-	0	0
	INDIAN RESERV	12/31/2005	1.000	0	0	0	0	0	0	0
	PRP	04/15/2013	TP	0	-	-	-	-	0	0
	US AIRS	10/23/2013	TP	0	-	-	-	-	0	0
	- Totals --			1	0	0	0	0	22	23

Site Information Report

Request Date: FEBRUARY 14, 2014
Request Name: MONA JOHNSON
Search Type: COORD
Job Number: DLS00000

Target Site: 6878 US HIGHWAY 441
GAINESVILLE, FL 32653

Site Location

	Degrees (Decimal)	Degrees (Min/Sec)	UTMs	
Longitude:	82.400600	82.4006000 - 82° 24' 2.16''	Easting:	364592.1
Latitude:	29.767600	29.7676000 - 29° 46' 3.36''	Northing:	3293676.8
Elevation:	182 ft. above sea level		Zone:	Zone 17

Demographics

Sites: 1 **Non-Geocoded:** 22 **Population:** N/A

RADON

Federal EPA Radon Zone for ALACHUA County: 2

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

Federal Area Radon Information for ALACHUA COUNTY, FL

Number of sites tested: 46

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	1.780 pCi/L	85%	11%	4%
Basement	1.010 pCi/L	80%	20%	0%

State Database: FL Radon

Radon Test Results

Zip	Total Buildings	% of sites>4pCi/L	Data Source

Site Information Report

RADON

32653	167	9.0	Certified Residential Database

Target Site Summary Report

Target Property: 6878 US HIGHWAY 441
GAINESVILLE, FL 32653

JOB: DLS00000

TOTAL: 23 GEOCODED: 1 NON GEOCODED: 22

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
1	FINDS	GAINESVILLE RENEWABLE ENERGY C	US RTE 441 GAINESVILLE, FL	0.00	+ 0	1

Sites Summary Report

Target Property: 6878 US HIGHWAY 441
GAINESVILLE, FL 32653

JOB: DLS00000

TOTAL: 23 GEOCODED: 1 NON GEOCODED: 22

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
	PRIORITYCLEANERS --9501898	MARKHAMS MAYTAG LAUNDRY	US 441 & HWY 235 ALACHUA, FL 32615	NON GC	N/A	N/A
	RCRA-SQG --FLR000182238	BREN-TRONICS ENERGY SYSTEMS LL	12871 US HIGHWAY 441 ALACHUA, FL 32615	NON GC	N/A	N/A
	RCRA NonGen / NLR --FLR000142588	HUNTER MARINE CORP - HCT FACIL	12895 US HIGHWAY 441 ALACHUA, FL 32615	NON GC	N/A	N/A
	FINDS	GAINESVILLE RACEWAY	HWY 225 GAINESVILLE, FL	NON GC	N/A	N/A
	FINDS	SR 24 FDOT 207843 - 1	SR 24 AIRPORT TO WALDO GAINESVILLE, FL	NON GC	N/A	N/A
	FINDS	FLORIDA POWER CORP. - UF COGEN	3201 34TH STREET, SOUTH GAINESVILLE, FL	NON GC	N/A	N/A
	Fl Sites --000582	GATES ENERGY PRODUCTS	HIGHWAY 441 NORTH GAINESVILLE, FL	NON GC	N/A	N/A
	FINDS	QUALITY PAINT & BODY REPAIR	HWY 441 NORTH GAINESVILLE, FL	NON GC	N/A	N/A
	RCRA-SQG --FLD981920150	QUALITY PAINT & BODY REPAIR	HWY 441 NORTH GAINESVILLE, FL	NON GC	N/A	N/A
	FINDS	CITY OF GAINESVILLE	306 NE 6TH AVENUEROOM 348 GAINESVILLE, FL	NON GC	N/A	N/A
	FINDS	SCHERER CONSTRUCTION - SPEC BU	2500 BLOCK OF NW 71ST PLA GAINESVILLE, FL	NON GC	N/A	N/A
	FINDS	BRYTAN PD - PHASE 1	6300 BLOCK OF SW 75TH ST GAINESVILLE, FL	NON GC	N/A	N/A
	FINDS	MADERA - PHASE 3	3600 BLOCK SW 20TH ST GAINESVILLE, FL	NON GC	N/A	N/A
	FINDS	VILLAS OF WESTEND - UNIT B PHA	900 BLOCK NW 124TH BLVD GAINESVILLE, FL	NON GC	N/A	N/A
	FINDS	GAINESVILLE, CITY OF	END OF SE 13TH RD GAINESVILLE, FL	NON GC	N/A	N/A
	FINDS	POLARIS OF GAINESVILLE	12556 NORTHWEST HIGHWAY 4 GAINESVILLE, FL	NON GC	N/A	N/A

Sites Summary Report

Target Property: 6878 US HIGHWAY 441
GAINESVILLE, FL 32653

JOB: DLS00000

TOTAL: 23 GEOCODED: 1 NON GEOCODED: 22

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
	FINDS	UNIVERSITY OF FLORIDA - MCGUIR	HULL ROAD AND SW 34TH STR GAINESVILLE, FL	NON GC	N/A	N/A
	FINDS	ALACHUA COUNTY FLEET MGT	US HWY 441 N GAINESVILLE, FL	NON GC	N/A	N/A
	RCRA-CESQG --FLD984208033	ALACHUA COUNTY FLEET MGT	US HWY 441 N GAINESVILLE, FL	NON GC	N/A	N/A
	FINDS	GAINESVILLE REGIONAL UTILITIES	MAIN STREET GAINESVILLE, FL	NON GC	N/A	N/A
	FINDS	COMMUNICATIONS LINE INSTALL -	STATE HWY 20 GAINESVILLE, FL	NON GC	N/A	N/A
	FINDS	GAINESVILLE DEERHAVEN GENERATI	9901 NE US HWY 441 GAINESVILLE, FL	NON GC	N/A	N/A

Site Detail Report

Target Property: 6878 US HIGHWAY 441
GAINESVILLE, FL 32653

JOB: DLS00000

FINDS

EDR ID: 1014689798 **DIST/DIR:** 0.000 **ELEVATION:** 182 **MAP ID:** 1

NAME: GAINESVILLE RENEWABLE ENERGY CENTER **Rev:** 03/08/2013

ADDRESS: US RTE 441
GAINESVILLE, FL
ALACHUA

SOURCE: US EPA

FINDS:

Registry ID: 110043333425

Environmental Interest/Information System
ELECTRIC GENERATOR

Database Descriptions

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

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

CERCLIS: CERCLIS CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL. CERCLIS - Comprehensive Environmental Response, Compensation, and Liability Information System

NFRAP: CERCLIS-NFRAP Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site. CERCLIS-NFRAP - CERCLIS No Further Remedial Action Planned

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

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

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

Federal IC / EC: US ENG CONTROLS A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health. US ENG CONTROLS - Engineering Controls Sites List US INST CONTROL - Sites with Institutional Controls.

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

Database Descriptions

State/Tribal CERCLIS: SHWS State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state. SHWS - Florida's State-Funded Action Sites

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

State/Tribal LTANKS: LUST Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. LUST - Petroleum Contamination Detail Report LAST - Leaking Aboveground Storage Tank Listing. INDIAN LUST R6 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R7 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R10 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R1 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R8 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R9 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R4 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R5 - Leaking Underground Storage Tanks on Indian Land.

State/Tribal Tanks: UST Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program. UST - Storage Tank Facility Information AST - Storage Tank Facility Information. BROWARD CO AST - Aboveground Storage Tanks. INDIAN UST R6 - Underground Storage Tanks on Indian Land. INDIAN UST R1 - Underground Storage Tanks on Indian Land. INDIAN UST R10 - Underground Storage Tanks on Indian Land. INDIAN UST R7 - Underground Storage Tanks on Indian Land. INDIAN UST R8 - Underground Storage Tanks on Indian Land. INDIAN UST R9 - Underground Storage Tanks on Indian Land. INDIAN UST R4 - Underground Storage Tanks on Indian Land. INDIAN UST R5 - Underground Storage Tanks on Indian Land.

State/Tribal IC / EC: ENG CONTROLS The registry is a database of all contaminated sites in the state of Florida which are subject to engineering controls. Engineering Controls encompass a variety of engineered remedies to contain and/or reduce contamination, and/or physical barriers intended to limit access to property. ECs include fences, signs, guards, landfill caps, provision of potable water, slurry walls, sheet pile (vertical caps), pumping and treatment of groundwater, monitoring wells, and vapor extraction systems. ENG CONTROLS - Institutional Controls Registry Inst Control - Institutional Controls Registry.

State/Tribal VCP: VCP Listing of closed and active voluntary cleanup sites. VCP - Voluntary Cleanup Sites

ST/Tribal Brownfields: BROWNFIELDS Brownfields are abandoned, idled, or underused industrial and commercial facilities where expansion or redevelopment is complicated by real or perceived environmental contamination. Florida's Brownfields Redevelopment Acti primary goals are to reduce health and environmental hazards on existing commercial and industrial sites that are abandoned or underused due to these hazards and create financial and regulatory incentives to encourage voluntary cleanup and redevelopment of sites. BROWNFIELDS - Brownfield Areas

US Brownfields: US BROWNFIELDS Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs. US BROWNFIELDS - A Listing of Brownfields Sites

Database Descriptions

Other SWF: LF PALM BEACH LF HILLSBOROUGH - HILLSBOROUGH CO LF. Hillsborough county landfill sites. LF HILLSBOROUGH - HILLSBOROUGH CO LF

Other Haz Sites: US CDL A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments. US CDL - Clandestine Drug Labs FL SITES - Sites List. PRIORITYCLEANERS - Priority Ranking List.

Other Tanks: Broward Co. UST All known regulated storage tanks within Broward County, including those tanks that have been closed Broward Co. UST - Underground Storage Tanks Miami-Dade Co. Tanks - Storage Tanks.

Spills: HMIRS Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT. HMIRS - Hazardous Materials Information Reporting System SPILLS - Oil and Hazardous Materials Incidents. Miami-Dade Co. SPILL - Fuel Spills Cases. SPILLS 80 - SPILLS80 data from FirstSearch. SPILLS 90 - SPILLS90 data from FirstSearch.

Other: RCRA NonGen / NLR RCRAInfo is EPA’s comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste. RCRA NonGen / NLR - RCRA - Non Generators TRIS - Toxic Chemical Release Inventory System. TSCA - Toxic Substances Control Act. FTTS - FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act). FTTS INSP - FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act). SSTS - Section 7 Tracking Systems. ICIS - Integrated Compliance Information System. PADS - PCB Activity Database System. MLTS - Material Licensing Tracking System. RADINFO - Radiation Information Database. FINDS - Facility Index System/Facility Registry System. RAATS - RCRA Administrative Action Tracking System. BRS - Biennial Reporting System. DRYCLEANERS - Drycleaning Facilities. FL Cattle Dip. Vats - Cattle Dipping Vats. INDIAN RESERV - Indian Reservations. FEDLAND - Federal and Indian Lands. US AIRS (AFS) - Aerometric Information Retrieval System Facility Subsystem (AFS). US AIRS MINOR - Air Facility System Data. PRP - Potentially Responsible Parties.

Database Sources

NPL: EPA

Updated Quarterly

NPL Delisted: EPA

Updated Quarterly

CERCLIS: EPA

Updated Quarterly

NFRAP: EPA

Updated Quarterly

RCRA COR ACT: EPA

Updated Quarterly

RCRA TSD: Environmental Protection Agency

Updated Quarterly

RCRA GEN: Environmental Protection Agency

Updated Quarterly

Federal IC / EC: Environmental Protection Agency

Varies

ERNS: National Response Center, United States Coast Guard

Updated Annually

State/Tribal CERCLIS: Department of Environmental Protection

Updated Semi-Annually

State/Tribal SWL: Department of Environmental Protection

Updated Semi-Annually

State/Tribal LTANKS: Department of Environmental Protection

Updated Quarterly

State/Tribal Tanks: Department of Environmental Protection

Updated Quarterly

Database Sources

State/Tribal IC / EC: Department of Environmental Protection

Updated Semi-Annually

State/Tribal VCP: Department of Environmental Protection

Varies

ST/Tribal Brownfields: Department of Environmental Protection

Updated Semi-Annually

US Brownfields: Environmental Protection Agency

Updated Semi-Annually

Other SWF: Hillsborough County Environmental Protection Commission

Varies

Other Haz Sites: Drug Enforcement Administration

Updated Quarterly

Other Tanks: Broward County Environmental Protection Department

Updated Annually

Spills: U.S. Department of Transportation

Updated Annually

Other: Environmental Protection Agency

Varies

Street Name Report for Streets near the Target Property

Target Property: 6878 US HIGHWAY 441
GAINESVILLE, FL 32653

JOB: DLS00000

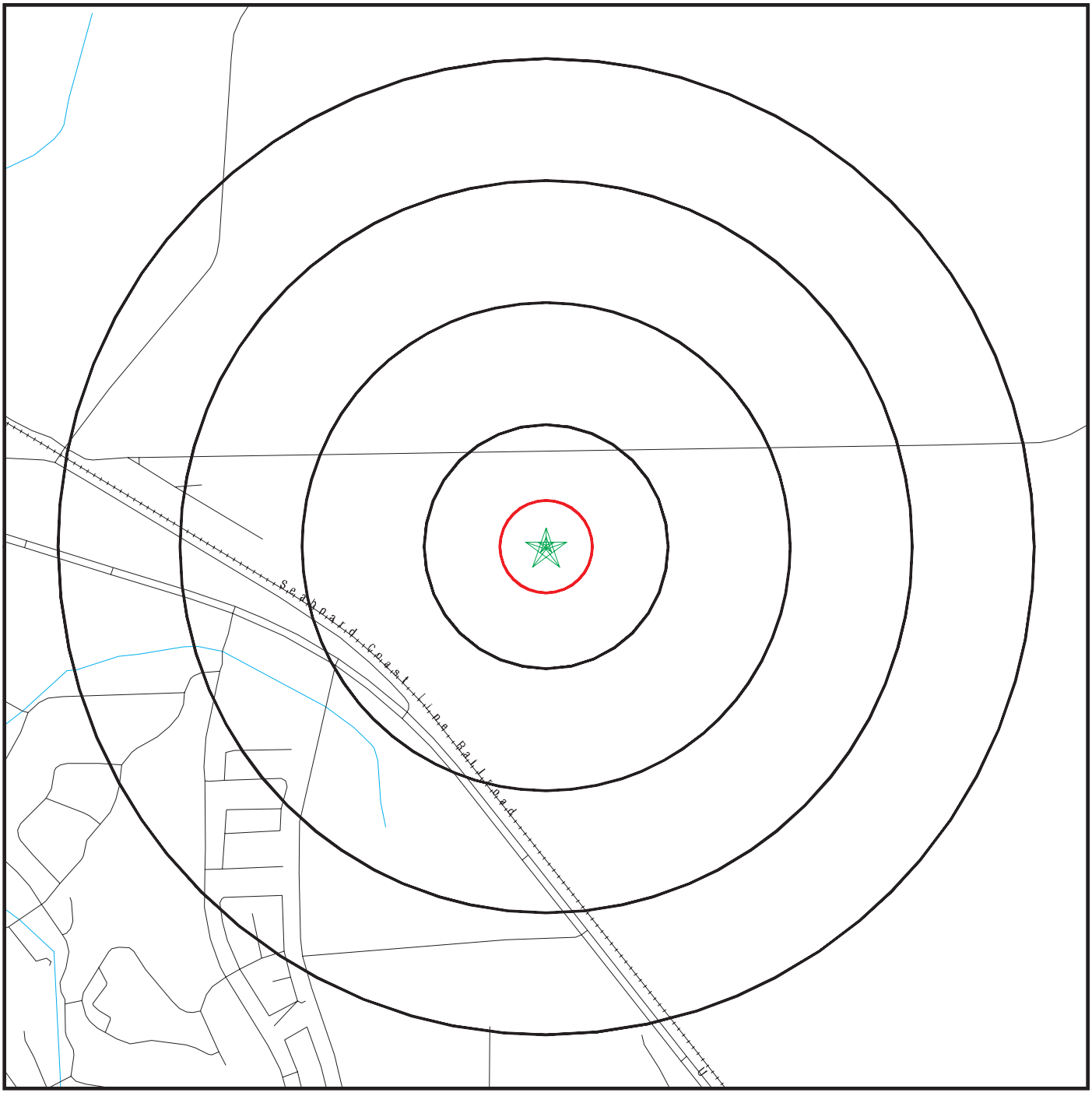
Street Name	Dist/Dir	Street Name	Dist/Dir
NW 128th Ln	0.20 North		

Environmental FirstSearch

1.000 Mile Radius
ASTM MAP: NPL, RCRACOR, STATES Sites

EDR® Environmental Data Resources Inc

6878 US HIGHWAY 441 GAINESVILLE, FL 32653



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

★ Target Property (Latitude: 29.7676 Longitude: 82.4006)

▲ Identified Sites

National Priority List Sites

Indian Reservations BIA

FL Brownfield

EDR Reference Code (EDR internal use only): 03855976.1r

14-02-19.10:49:49.Wed

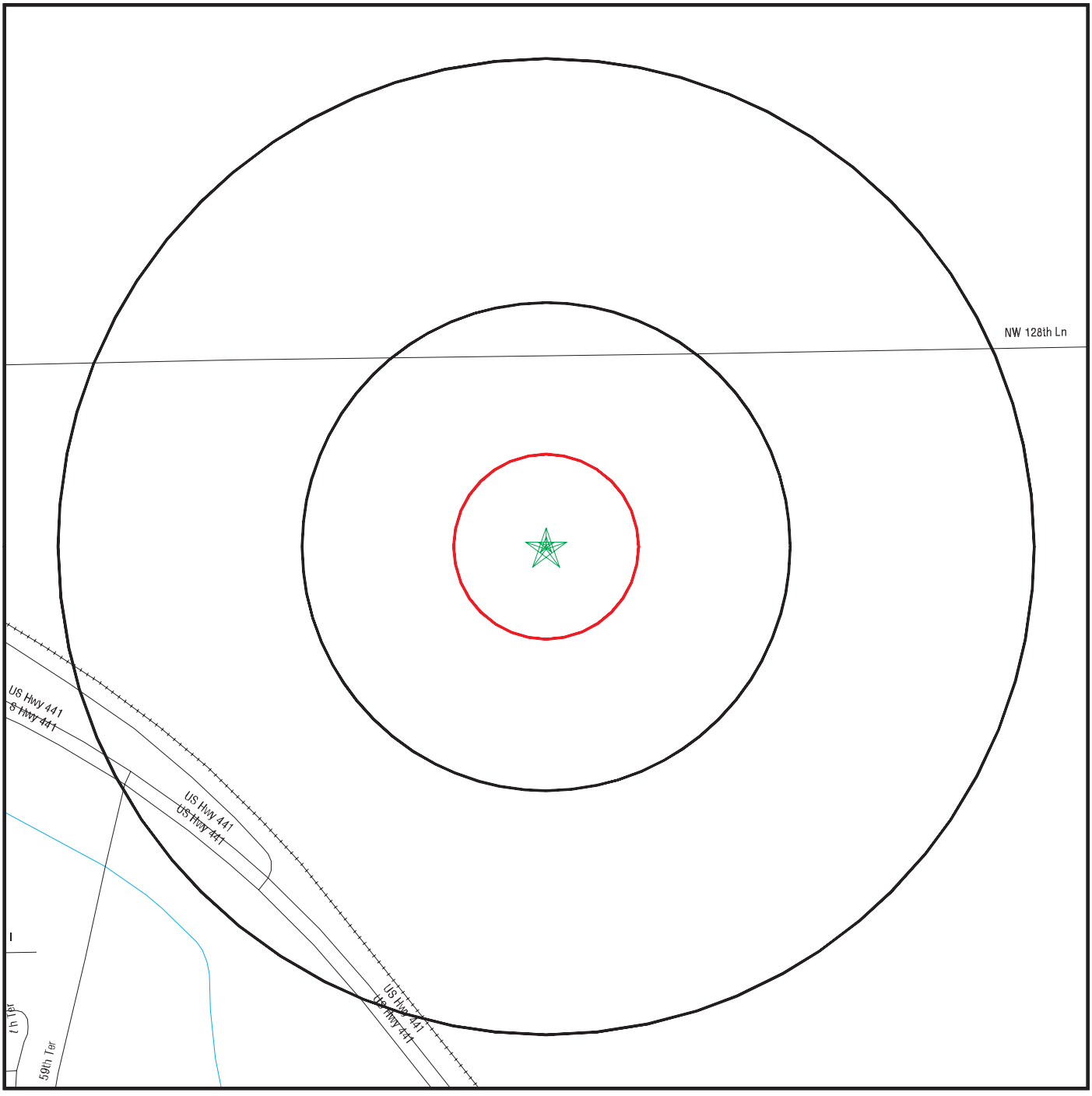
Environmental FirstSearch

0.500 Mile Radius

ASTM MAP: CERCLIS, RCRATSD, LUST, SWL

EDR® Environmental Data Resources Inc

6878 US HIGHWAY 441 GAINESVILLE, FL 32653



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

★ **Target Property (Latitude: 29.7676 Longitude: 82.4006)**

▲ **Identified Sites**

National Priority List Sites

Indian Reservations BIA

FL Brownfield

EDR Reference Code (EDR Internal use only): 03855976.1r

14-02-19.10:50:24.Wed

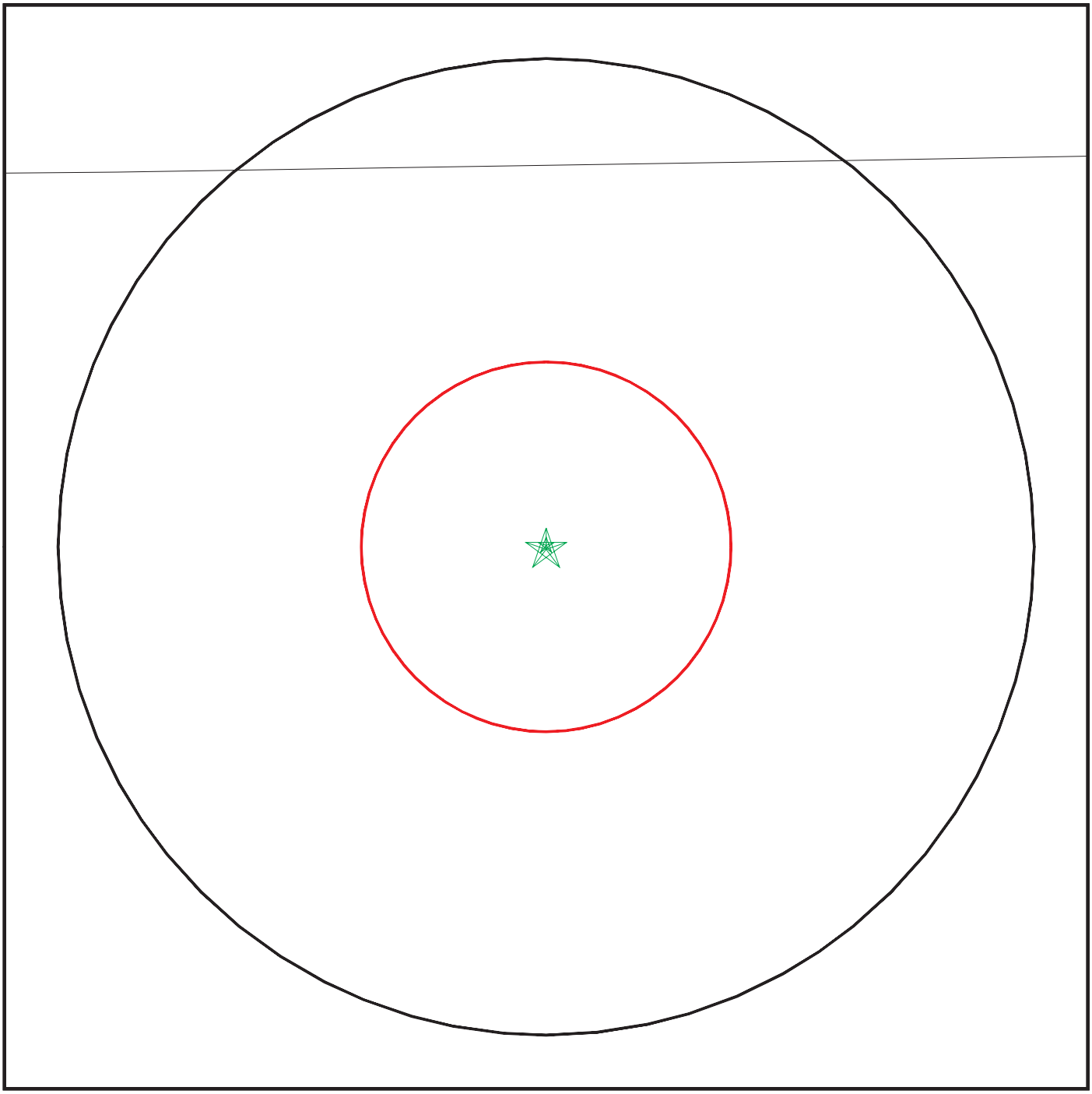
Environmental FirstSearch

0.25 Mile Radius

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

EDR® Environmental Data Resources Inc

6878 US HIGHWAY 441 GAINESVILLE, FL 32653



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

★ Target Property (Latitude: 29.7676 Longitude: 82.4006)

▲ Identified Sites

National Priority List Sites

Indian Reservations BIA

FL Brownfield

EDR Reference Code (EDR Internal use only): 03855976.1r

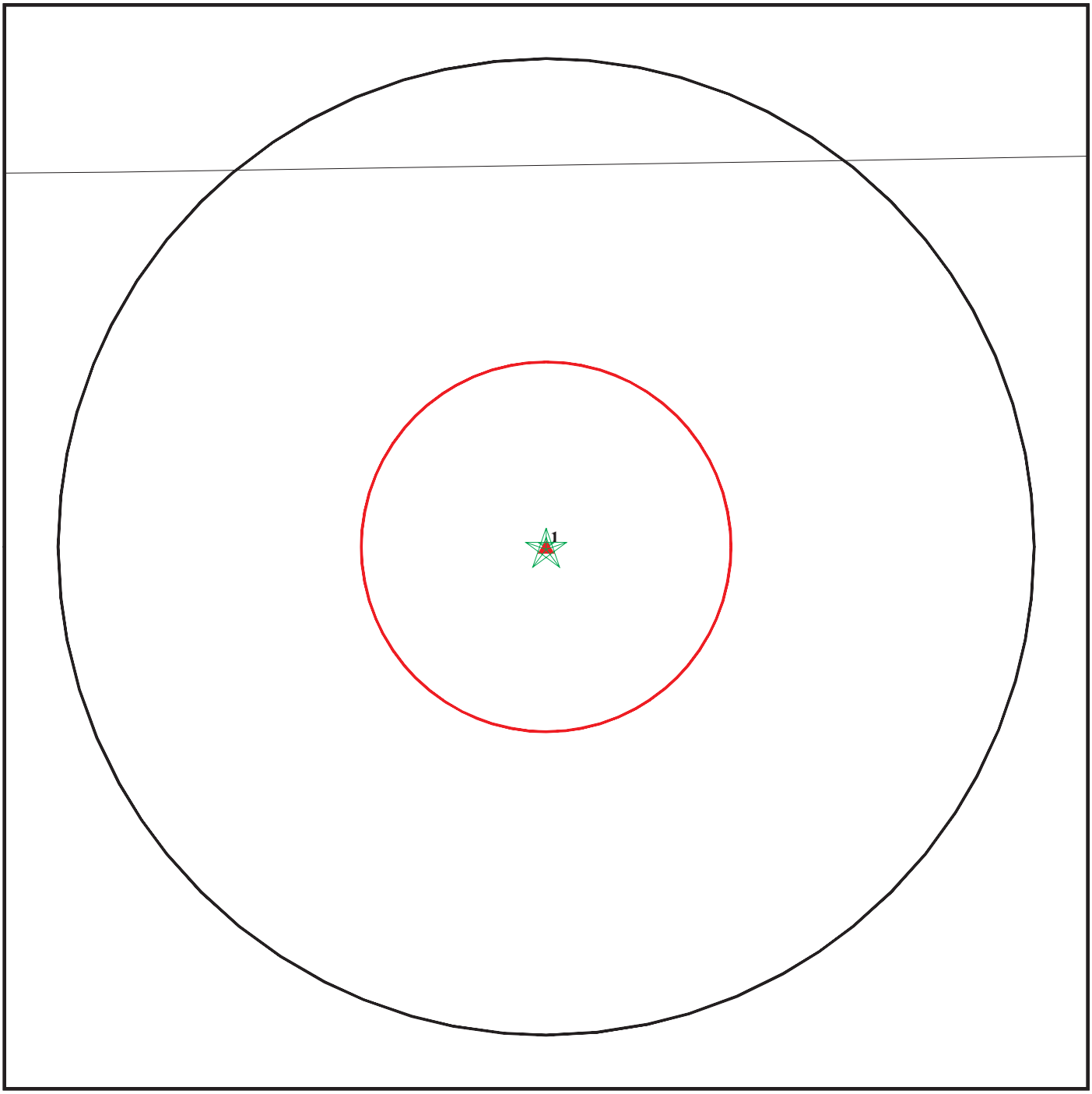
14-02-19.10:50:57.Wed

Environmental FirstSearch

0.25 Mile Radius
Non ASTM Map, Spills, FINDS

EDR® Environmental Data Resources Inc

6878 US HIGHWAY 441 GAINESVILLE, FL 32653



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

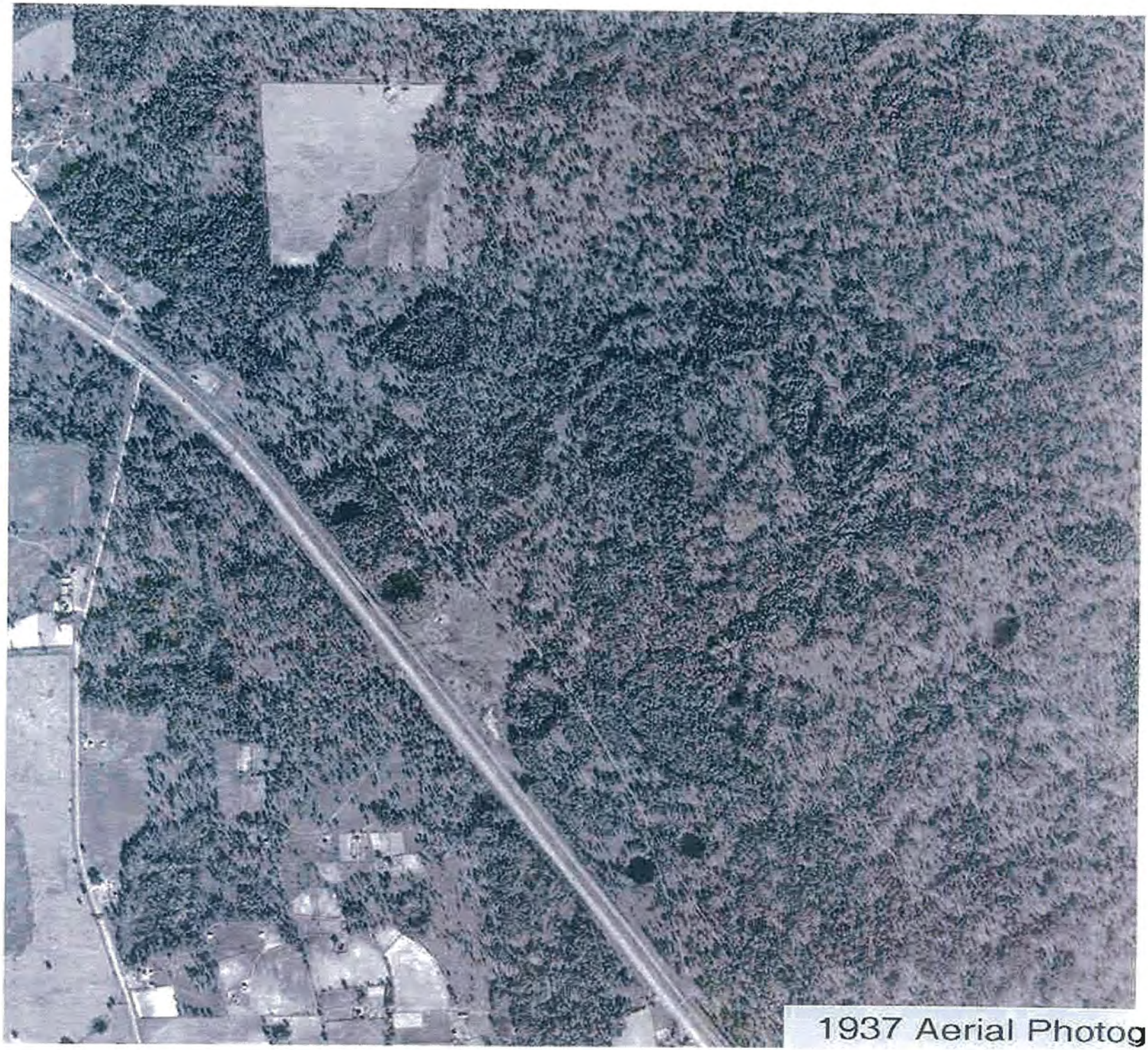
- Target Property (Latitude: 29.7676 Longitude: 82.4006)
- Identified Sites
- Sensitive Receptors
- National Priority List Sites
- Indian Reservations BIA
- FL Brownfield

EDR Reference Code (EDR Internal use only): 03855976.1r

14-02-19.10:51:31.Wed

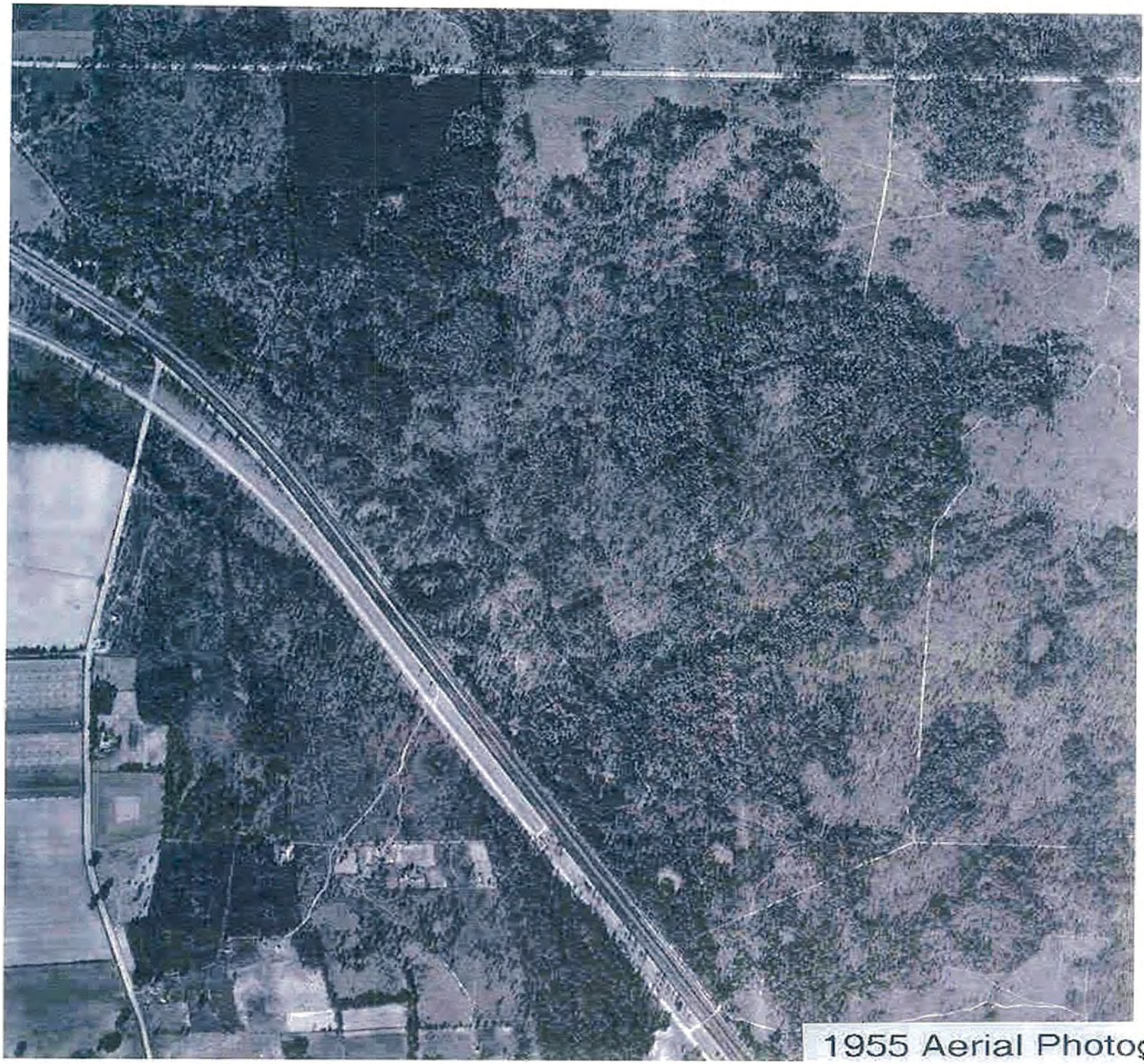
APPENDIX E

AERIAL PHOTOGRAPHS



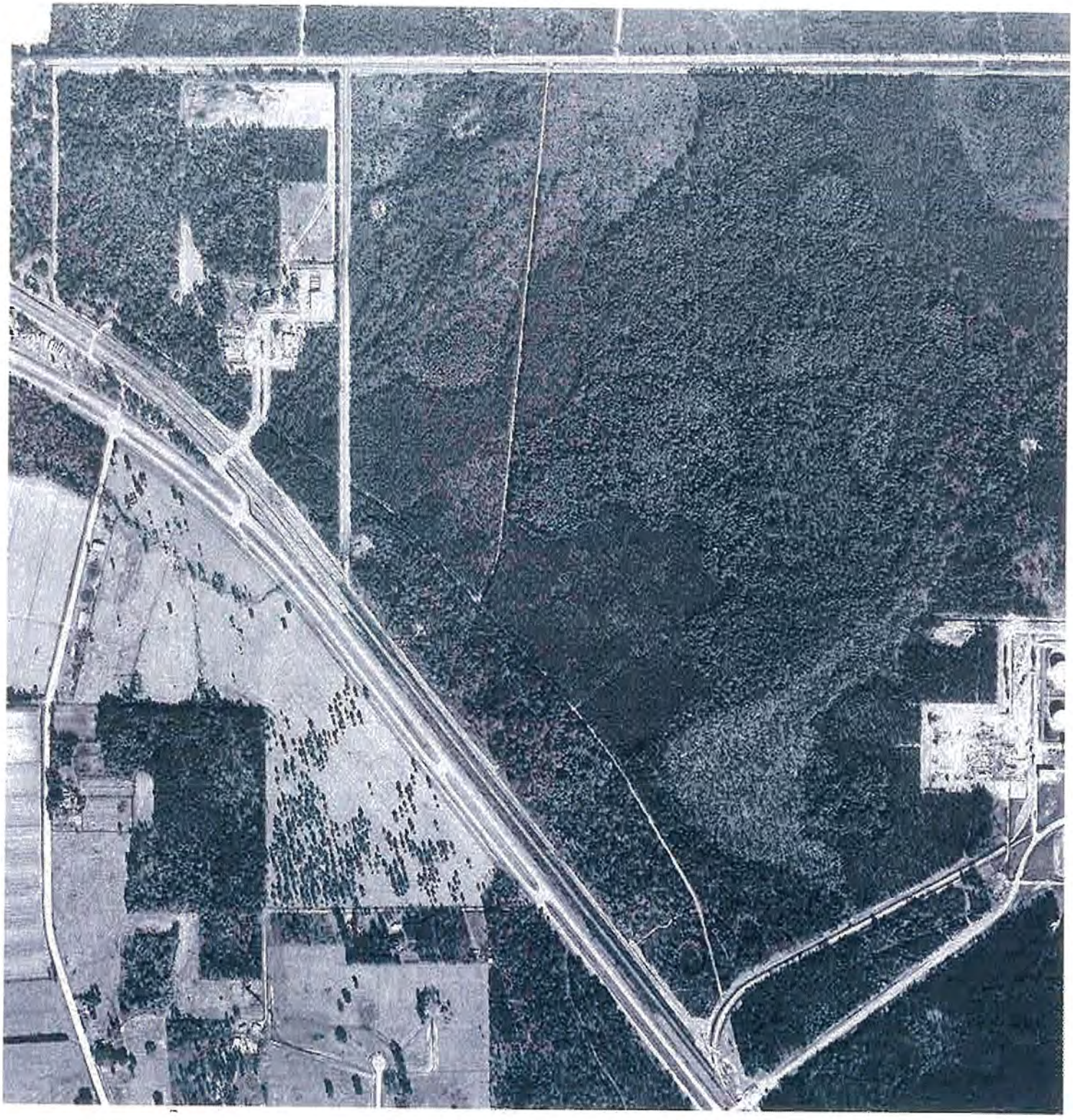
1937 Aerial Photograph

1949 Aerial Photograph



1955 Aerial Photograph

1964 Aerial Photograph



1975 Aerial Photograph

1987 Aerial Photograph

1998 Aerial Photograph

2008 Aerial Photograph

APPENDIX F

SITE PHOTOGRAPHS

Photograph #1: View to the southeast of the GREC facility.

Photograph #2; View to the west of the wood yard management area.

Photograph #3: Aerial view of the aboveground storage tanks associated with The zero liquid discharge system.

Photograph #4: Aerial view of the cooling tower.

Photograph #5: Aerial view of the AST, chemical and tote storage. Note secondary containment.

Photograph #6: Aerial view of plant facilities.

Photograph #7: Aerial view of the central-northern retention pond looking north to adjacent undeveloped land.

Photograph #8: View of the zero liquid discharge system and the steam Boiler in the background

Photograph #9: View of dumpsters associated with the boiler bottom ash.

Photograph #10: View of the switchyard.

Photograph #11: View of an area of chemical storage. Note secondary containment.

Photograph #12: View of an area of chemical storage. Note secondary containment.

Photograph #13: View of the mobile diesel fuel aboveground storage tank.

Photograph #14: View of the diesel fuel aboveground storage tank associated with the fire pump.

Photograph #15: View of one of the two process water wells.

Photograph #16: View of a temporary irrigation well.

Photograph #17: View to the south along the western property boundary of one of the Deerhaven Generating Station perimeter monitoring wells.

Photograph #18: View of the onsite conservation easement area.

Photograph #19: View to the south of the GREC access road in the southern portion of the subject site.

Photograph #20: View of (PVC) equipment and parts stored outside in the northern portion of the subject site.

Photograph #21: View to the east of the Deerhaven Generating Station.

Photograph #22: View to the west of one of the Alachua County Public Works facilities.

Photograph #23: View to the west of one of the Alachua County Public Works facilities.

Photograph #24: View of stockpiled material on the western adjacent property associated with the Alachua County Public Works facility.

Photograph #25: View of one of the commercial buildings located across Highway 441 to the southwest.

Photograph #26: View of one of the commercial buildings located across Highway 441 to the southwest.

APPENDIX G

QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONAL(S)

MONA P. JOHNSON, P.G.
Staff Scientist II

Education

B.S., Geology—Brigham Young University, 1981

Registrations

Professional Geologist, Florida, No. 1854
Certified Asbestos Inspector, Management Planner, Project Designer, and Supervisor
OSHA HAZWOPER 40-hour and 8-hour refresher training
Certified, Mine Safety and Health Act training
Chemical Mining
CPR/First Aid

Areas of Specialization

Phase I/II Environmental Site Assessments; Tank Closures; Contamination Assessments; Initial Remedial Action Reports; Initial Remedial Action Plans; Operation and Monitoring Activities; Asbestos Inspections, Management Planning, Project Design, and Contractor Supervision

Project Manager; Asbestos Surveys, Prosser Wilbert—Prepared overall asbestos survey proposal for all AMC Theaters in Florida. Conducted asbestos surveys on nine theaters to date. Prepared National Emissions Standards for Hazardous Air Pollutants (NESHAP) reports for each theater.

Project Manager; Asbestos Surveys, Progress Energy Florida, Inc.—Prepared proposals for asbestos surveys in various areas of the power plants in Crystal River, St. Petersburg, Oldsmar, Avon Park, Debary, Gainesville, and Intercession City, Florida. Conducted surveys and prepared NESHAP and limited asbestos survey reports.

Project Manager; Asbestos Surveys, Lockheed Martin—Prepared proposals for asbestos surveys in various areas of the Lockheed Martin facility in Oldsmar, Florida. Conducted NESHAP and limited asbestos surveys and prepared NESHAP and limited asbestos survey reports.

Project Manager/Project Geologist; Soil Sampling, Consensus Family Partnership, LLC—Collected and logged soil samples during well installation procedures at the Finish Line property in Tampa, Florida. Collected groundwater samples from the monitoring wells. Prepared site assessment report (SAR). Prepared and initiated natural attenuation monitoring plan (NAMP). Collected groundwater samples and prepared natural attenuation monitoring (NAM) reports.

Project Manager/Project Geologist; Soil Sampling, Progress Energy Florida, Inc.—Collected soil samples for soil characterization at the Crystal River Power Plant in Citrus County. Prepared soil report.

Project Geologist; Site Assessment, Florida Department of Environmental Protection Preapproval Program—Collected and logged soil samples during well installation and soil sampling procedures at Ferris Farms in Floral City, Florida. Collected groundwater samples from the monitoring wells. Assisted in the preparation of the SAR addenda.

Project Geologist; Site Assessment, Hunt Real Estate Services—Collected and logged soil samples during well installation procedures at former Tampa Independent Dairy Farmers Association, located in the Ybor City area of Tampa, Florida. Collected groundwater samples from the monitoring wells throughout the site rehabilitation and cleanup. Prepared SAR and subsequent addenda. Prepared and implemented NAMP and prepared subsequent NAM reports.

Project Geologist; Site Assessment, Hillsborough County Aviation Authority (HCAA)—Collected and logged soil samples during monitoring well installation and soil boring activities in the Drew Park area, the former cargo gas fire pit area, and the former Hertz Car Rental area of the Tampa International Airport. The activities included logging soils through the intermediate aquifer and into the Floridan aquifer. Collected groundwater samples from the monitoring wells. Assisted in the preparation of SARs and subsequent addenda.

Project Geologist; HCAA—Collected and logged soil samples during monitoring well and soil boring activities at the former Delta Hangar at the Tampa International Airport. Collected groundwater samples from the monitoring wells and prepared the SAR with recommendations for NFA.

Project Geologist; Site Assessment, Key Investment Properties—Collected and logged soil samples during well installation and soil boring procedures at a vacant property on Causeway Boulevard in Tampa, Florida. Collected groundwater samples from the monitoring wells and supervised contaminated soil removal activities at the same property. Prepared SAR and subsequent addenda.

Project Geologist; Site Assessment, Tri-Star Business Communities, LLC—Collected and logged soil samples during well installation and soil boring procedures at Feather Sound Golf and Country Club maintenance facility, located in Clearwater, Florida. Collected groundwater samples from the monitoring wells. Prepared SAR and subsequent addenda. Supervised contaminated soil removal during site rehabilitation activities. Prepared and initiated NAMP and prepared reports. Supervised well abandonment activities upon receipt of No Further Action (NFA) status.

Project Geologist; Soil Removal, Southwest Florida Water Management District (SWFWMD)—Supervised contaminated soil removal during site rehabilitation activities at the 5,000-acre Overstreet Ranch property in Polk County, Florida.

Project Geologist: Soil Sampling and Removal, SWFWMD—Collected shallow soil samples during assessment activities at the Marlin Ranch property in Sarasota County. Supervised contaminated soil removal during site rehabilitation activities.

Project Geologist; East Group Properties—Collected and logged soil samples during well installation procedures at the former Bay Area Cleaners facility in Tampa, Florida. Collected groundwater samples from the monitoring wells. Prepared SAR and NAM reports. Supervised well abandonment activities upon receipt of NFA status.

Project Geologist; ABA Industries—Collected groundwater samples from existing monitoring wells at a vacant property in Pinellas Park, Florida. Collected and logged soil samples during additional well installation procedures. Prepared and initiated SAR and subsequent addenda. Collected groundwater samples and prepared NAMP proposal.

Project Geologist; Phase II Environmental Site Assessment (ESA), Gateway Radiology—Collected and logged soil samples during well installation and soil sampling procedures at a vacated property in St. Petersburg, Florida. Collected groundwater samples from the monitoring wells. Supervised well abandonment activities. Assisted in the preparation of a Phase II ESA report, and met with possible purchasers regarding further assessment activities.

Project Geologist; Phase II ESA, Ocala Meadows, LLC and Sleepy Creek Properties, LLC—Collected soil samples around a former cattle pen at a 7,000-acre property, and around a former cattle pen and former underground storage tank (UST) at a 676-acre property, both in Ft. McCoy, Florida. Assisted in the preparation of a Phase II ESA report.

Project Geologist; Phase II ESA, The Trust for Public Land (TPL)—Collected soil samples along a 7-mile rail corridor in College Park, Georgia. Assisted in the preparation of a Phase II ESA report.

Project Geologist; Phase II ESA, HuntDouglas—Collected and logged soil samples during well installation procedures at an active Texaco gasoline station in Tampa.

Project Geologist; Phase II ESA, Pinellas County Brownfields Development—Collected and screened soil samples at 1263 Gooden Crossing in Largo, Florida. Prepared quality assurance plan and Phase II ESA reports.

Phase I ESA Assessor; Ocala Meadows, LLC and Sleepy Creek Lands, LLC—Conducted Phase I ESAs of 7,000-, 676-, and 2,200-acre agricultural properties in Ft. McCoy, Florida.

Phase I ESA Assessor; HR Pasco, LLP and CLW Industrial, LLC—Conducted a Phase I ESA of a 3-acre portion of the Nortrax property in Lutz, Florida.

Phase I ESA Assessor; Cardinal Point Management, LLC—Conducted a Phase I ESA of four buildings at the Airport Business Center in Clearwater, Florida.

Phase I ESA Assessor; Hamilton Engineering and Surveying, Inc.—Conducted a Phase I ESA of a vacant parcel of the U.S. Veterans Administration Complex at Bay Pines in St. Petersburg, Florida.

Phase I ESA Assessor; SWFWMD—Conducted Phase I ESAs of a 370-acre partially developed property, a 5,000-acre partially developed property, and a 2-acre undeveloped property in Polk County, Florida. Conducted a Phase I ESA of a 300-acre partially developed property in Pasco County, Florida.

Project Geologist; Phase II ESA, Precision Toyota—Collected and logged soil samples during soil boring activities around 18 hydraulic lifts, a former UST tankpit, an aboveground tank, a drainage trench, and a former septic tank area at a former automobile dealership with repair and body shops. Collected groundwater samples from the onsite monitoring wells at the facility.

Project Geologist: SWFWMD—Collected and logged soil samples during well installation and soil boring procedures at the Carlton Ranch property in Sarasota County.

Project Geologist; CF Industries—Collected and logged soil samples during monitoring well and piezometer installation activities in the south pasture mine expansion area in Hardee County, Florida, including logging soils through the surficial aquifer, the phosphate matrix (bone valley formation), and into the bottom of the intermediate aquifer.

Phase I ESA Assessor; The Trust for Public Land—Conducted Phase I ESAs of a marina/fish camp property in Collier, Hillsborough, and Flagler Counties; two undeveloped properties in Volusia County, one out parcel for a strip center in Lee County; a residential property in Columbia County; an approximately 140-acre property in Polk County; a partially developed (residential) property in Pinellas County; and an undeveloped property in Osceola County.

Project Geologist; Site Assessment, The Trust for Public Land—Supervised the installation of four monitoring wells in and adjacent to an area of arsenic impact associated with a former cattle dip vat in Lake County, Florida. Also oversaw the removal of the arsenic-impacted soil at the same site.

Phase I ESA Assessor; Suncoast Ford—Conducted Phase I ESAs of an active car dealership in Port Richey, Florida Prepared phase I ESA report.

Phase I ESA Assessor; Buckeye Florida—Conducted Phase I ESAs of an approximately 8,000 acre property in Franklin County, Florida Prepared Phase I ESA report.

Phase I ESA Assessor; Walmart—Conducted Phase I ESAs of three adjacent properties in Tampa, Florida Prepared Phase I ESA report.

Phase I ESA Assessor; Pasco County—Conducted Phase I ESAs of three large agricultural (ranch) properties in Pasco County. Prepared Phase I ESA reports.

Phase I ESA Assessor; American Renewables—Conducted Phase I ESAs of reclaimed mining properties in Hamilton County, Florida. Prepared Phase I ESA reports.

Phase I ESA Assessor; SWFWMD—Conducted Phase I ESAs of agricultural and residential properties in Polk County, Florida. Prepared Phase I ESA reports.

Phase I ESA Assessor; Progress Energy—Conducted Phase I ESA of vacant land for the expansion of the Suwannee County facility in Live Oak, Florida. Prepared Phase I ESA report.

Project Geologist, Phase II ESA, The Trust for Public Land—Collected and logged soil samples during temporary well installation procedures at a property in Lake Alfred, Florida. Directed the collection of shallow soil samples in the rail bed portion of a 12.4-mile long corridor in Sarasota County proposed as the rails to trails project. Assisted in the preparation of a Phase II report.

Project Geologist, Phase II ESA, The Trust for Public Land—Collected shallow soil samples in the rail bed portion of a 2-mile long corridor in College Park, Georgia. Assisted in the preparation of a Phase II ESA report.

Project Geologist, Phase II ESA, The Trust for Public Land—Collected soil samples at the Bull Creek property in Flagler County, Florida. Prepared Phase II ESA report.

Project Geologist, Phase II ESA, The Trust for Public Land—Directed the collection of shallow soil samples in the rail bed portion of a 2-mile long corridor in the Blue Run of Dunnellon property in Marion County. Prepared Phase II ESA report.

Project Geologist; Soil Sampling, Conservation Foundation of the Gulf Coast—Collected soil samples in the area around a cattle pen, and supervised the removal of pesticide impacted soil at a large ranch in Sarasota County, Florida.

Project Geologist; Manufactured Gas Plant (MGP), City of St. Petersburg—Supervised the removal of coal tar impacted soil and groundwater at a former MGP and landfill in St. Petersburg, Florida.

Project Geologist; Mosaic Fertilizer, L.L.C.—Collected and logged soil samples during test boring activities in the Hopewell Mine area and during monitoring well installation activities at the Texaco Tract portion of the Wingate Mine area. Activities included logging soils through the surficial aquifer, the phosphate matrix (bone valley formation), bottom of the intermediate aquifer, and into the Floridan aquifer.

Project Geologist; Mosaic Fertilizer, L.L.C.—Supervised and assisted in the installation of 60 piezometers in the wetlands of the Mosaic mine expansion project in Ona, Florida. Assisted in collecting water flow measurements throughout the wetland areas.

Project Geologist; Phase II ESA, Mosaic Fertilizer, L.L.C.—Collected and logged soil samples during assessment activities in the Cytec Mine area. Also collected groundwater samples with the aid of a GeoProbe.

Project Geologist; Phase II ESA, Dominick Graziano—Collected and logged soil samples during soil boring procedures at three undeveloped properties in the Ybor City area of Tampa. Prepared Phase II reports.

Geologist; Site Assessment, Save-A-Ton—Collected and logged soil samples during well installation procedures at an underground storage tank (UST) facility in Zephyrhills, Florida.

Project Geologist; Phase II ESA, Suncoast Ford—Collected groundwater samples and abandoned temporary monitoring wells around 15 hydraulic lifts at an active car dealership in Port Richey, Florida.

Project Geologist; Phase II ESA, Ocala Recycling—Collected and logged soil samples during temporary well installation procedures at property in Ocala, Florida. Supervised the removal of oil and chemically stained soil at the same property and supervised the removal of oil impacted soil around the recycling equipment. Conducted compliance inspection of the facility.

Project Geologist; Phase II ESA, Kerwin Development Company—Collected soil and groundwater samples during soil boring and temporary well installation procedures at Tire Kingdom in Pasco County, Florida.

Geologist; Site Assessment, Lowe's Home Improvement Center—Collected and logged soil samples during well installation procedures at the South Tampa Lowe's facility in Tampa, Florida. Collected quarterly groundwater samples from the well through site rehabilitation/cleanup.

Phase I ESA Assessor; Marketmasters, Inc.—Conducted numerous Phase I ESAs of properties in Clay and St. Johns Counties, Florida.

Phase I ESA Assessor; Florida Power & Light Company—Conducted Phase I ESAs of three wind farms; one in Meyersdale, Pennsylvania (20 turbines); one in Waymart, Pennsylvania (22 turbines); and one in Thomas, West Virginia (44 turbines). Prepared Phase I ESA reports.

Phase I ESA Assessor; Verizon Wireless—Conducted numerous Phase I ESAs of properties in Hillsborough, Pinellas, Orange, Seminole, Sarasota, Lee, Marion, Duval, and Alachua Counties. Prepared Phase I ESA reports.

Project Geologist; Phase II ESAs; Verizon Wireless—Collected soil and groundwater samples during temporary well installation procedures in Ocala, Orlando, and New Port Richey, Florida. Prepared Phase II ESA reports.

Phase I ESA Assessor; Arco Construction—Conducted Phase I ESAs of one apartment complex (21 buildings, 176 apartments), in Largo, Florida; and one apartment complex (26 buildings, 200 apartments), in Sarasota, Florida. Also assisted in asbestos and lead-based paint assessment in these two complexes. Prepared Phase I ESA reports.

Geologist; Phase I and II ESAs, Numerous Clients—Conducted fieldwork for Phase I and II ESAs for commercial and vacant parcel properties in Hillsborough, Pasco, and Polk Counties, Florida.

Asbestos Supervisor; Eckerd College—Monitored asbestos abatement activities at several dormitories and the main library at Eckerd College in St. Petersburg, Florida. Monitoring activities included collecting air samples, and preparing and reading slides for clearance.

Asbestos Inspector; Universal Studios—Performed a NESHAP asbestos survey of the abandoned Hard Rock Café, located at Universal Studios in Orlando, Florida.

Asbestos Inspector; Eckerd College—Performed NESHAP and limited asbestos surveys in maintenance, common, and living areas throughout Eckerd College in St. Petersburg, Florida, and at a commercial office building in Sarasota, Florida. Prepared NESHAP and limited asbestos survey reports.

Asbestos Inspector; NBC—Performed a NESHAP and limited asbestos survey at the NBC production building at the Kennedy Space Center in Titusville, Florida.

Asbestos Inspector; Trust for Public Land—Performed limited asbestos surveys at five residences and associated outbuildings in Orlando, Florida. Prepared limited asbestos survey reports.

Asbestos Inspector; Trust for Public Land—Performed NESHAP and limited asbestos surveys in four residences in Dunedin, Florida. Prepared NESHAP and limited asbestos survey reports.

Asbestos Inspector; Trust for Public Land—Performed NESHAP and limited asbestos surveys in one residence, one restaurant, a bait shop, and a shower facility at the Bull Creek Fishing Camp, in Flagler County, Florida. Prepared NESHAP and limited asbestos survey report.

Asbestos Inspector; HCAA—Performed NESHAP demolition surveys at several warehouses and office buildings in the Drew Park area of Tampa International Airport. Prepared NESHAP reports.

Asbestos Inspector; HuntDouglas—Performed a NESHAP asbestos survey at a gasoline station and office building in Tampa, Florida.

Asbestos Inspector; Buchanan Street Partners—Performed a NESHAP asbestos survey at a residential apartment complex in Tampa, Florida.

Project Scientist; Tampa Bay Fisheries—Conducted weekly monitoring activities, including collecting potable and non-potable water samples, and conducted quarterly groundwater sampling at the Tampa Bay Fisheries facility in Brandon, Florida.

Project Scientist; HRK Holdings, Inc.—Monitored dredging activities at an inactive phosphate plant, in Palmetto, Florida. Monitoring activities included gauging water levels at various stations at the former gypsum stacks, and surface water stations during 13-hour day/night shifts.

Project Scientist; Piney Point Phosphate, Inc.—Collected and analyzed surface water samples for ammonia content, pH, turbidity, and conductivity at an inactive phosphate mining and production facility. Monitoring field activities

Geologist; Cumberland Farms—Conducted contamination assessments, including all field work and report writing at gasoline stations throughout Florida and Georgia. Developed remedial action plans, including all report writing and graphics, for various sites in Florida.

Geologist; Numerous Clients—Conducted fieldwork, including soil and groundwater sampling, monitor well installation, and all report writing for contamination assessment procedures at various facilities throughout Florida, Georgia, and West Virginia.

DARREN L. STOWE, AICP, LEP
Principal Scientist

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

Registrations
American Institute of Certified Planners
INSTEP Licensed Environmental Professional, No. 91

Affiliations
Florida Environmental Assessors Association (past president)
SunCoast Chapter of American Planning Association

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

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 approximately 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 aboveground 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. Prepared 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.