CSER
McCulloch Road Roadway Conceptual Analysis Study, from N. Orion Blvd. to N. Tanner Road Orange County, Florida NADIC Project No.: PR.GEO-RD20007.1

Prepared for:

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NADIC
ENGINEERING

February 7, 2022

Dewberry
800 Magnolia Avenue, Suite 1000
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Attention: Mr. Kevin Knudsen, P.E.
Vice President

Re: Contamination Screening Evaluation Report
McCulloch Road Roadway Conceptual Analysis Study
(North Orion Boulevard to North Tanner Road)
Orange County, Florida
Orange County Project No.: Y20-827-CH
NADIC Proposal No. PQ.GEO-RD21007.1

Dear Mr. Knudsen**,**

NADIC Engineering Services, Inc. (NADIC) is pleased to provide this Contamination Screening Evaluation Report (CSER) of facilities near or within the above referenced project corridor. The purpose of this report is to identify the known and potentially known contaminated sites within the vicinity of the project corridor in Orange County, Florida.

NADIC appreciates the opportunity to work with you, **Dewberry** and the Orange County on this project, and looks forward to a continued association. Please contact us if you have any questions or concern about the report, or if we may be of further assistance.

Sincerely,

NADIC ENGINEERING SERVICES, INC.



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LIST OF ABBREVIATIONS AND ACRONYMS

AST	Aboveground Storage Tank
ASTM	American Society for Testing and Materials
CF-FL	State and Tribal Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) maintained by the EPA.
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System (maintained by EPA)
CESQG	Conditionally Exempt Small Quantity Generator
CFR	Code of Federal Regulations
CORRACTS	Identifies hazardous waste handlers with RCRA corrective action activity
CREC	Controlled Recognized Environmental Condition
CSE	Contamination Screening Evaluation
CSER	Contamination Screening Evaluation Report
DOH	Department of Health and Human Services
DRF	Discharge Reporting Form
EPA	Environmental Protection Agency
EPCRA	Emergency Planning and Community Right to Know Act (also known as SARA Title III)
ERNS	Emergency Response Notification System
ERS	Environmental Record Search
ESA	Environmental Site Assessment
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
FDOT	Florida Department of Transportation
FIC/FEC	Federal Institution Controls/Federal Engineering Controls
FOIA	Freedom of Information Act
FR	Federal Register
HREC	Historic Recognized Environmental Condition
ICs	Institutional Controls
LQG	Large Quantity Generator
LLP	Landowner Liability Protections under the Brownfields Amendments
LSCTL	Leachability Soil Cleanup Target Level
LST	Leaking Storage Tanks
LUST	Leaking Underground Storage Tank
LUST-Open-FL	Leaking Underground Storage Tank (LUST) with an ongoing cleanup status.
MSDS	Material Safety Data Sheet
NCP	National Contingency Plan
NFA	No Further Action

LIST OF ABBREVIATIONS AND ACRONYMS CONTINUED

NFRAP	Former CERCLIS sites where no further remedial action is planned under CERCLA
NPDES	National Pollutant Discharge Elimination System
NPL	National Priorities List
NRCS	National Resources Conservation Service
PCBs	Polychlorinated Biphenyls
PEC	Perchloroethylene
PRP	Potentially Responsible Party
PD&E	Project Development and Environment
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
SARA	Superfund Amendments and Reauthorization Act
SQG	Small Quantity Generator
SRCO	Site Rehabilitation Completion Order
SDWWTP	South District Water and Wastewater Treatment Plant
TP	Target Property
TCE	Trichloroethylene
TSDF	Hazardous Waste Treatment, Storage and Disposal facility
US	United States
USCS	Unified Soil Classification System
USDA	United States Department of Agriculture
USGS	United States Geological Survey
UST	Underground Storage Tank

EXECUTIVE SUMMARY

NADIC Engineering Services, Inc. (NADIC) has completed a Contamination Screening Evaluation (CSE) of facilities along McCulloch Road from North Orion Boulevard to North Tanner Road in Orange County, Florida. This Contamination Screening Evaluation was conducted in accordance with the Florida Department of Transportation's (FDOT) Project Development and Environment (PD&E Manual, Part 2, Chapter 20, Contamination Impacts), dated July 1, 2020 and conformance with the scope and limitations of the American Society for Testing and Materials (ASTM) Practice E1527-13 for Phase I ESAs. The purpose of the CSE is to identify potential presence/absence of Recognized Environmental Conditions (RECs) as part of the McCulloch Road Roadway Conceptual Analysis (RCA) Study.

In accordance with the PD&E Manual, facilities that may have potential for contamination were identified within prescribed buffers for the project corridor. Each potential contamination site identified was assigned a Contamination Risk Potential Rating (CRPR) of **No, Low, Medium,** or **High**.

Upon completion of the CSE, five (5) potential contamination facilities were identified; two (2) facilities received a CRPR of **Low** and three (30 received a CRPR of **No**.

Per Orange County's Scope of Services, and in accordance with the PD&E Manual, sites assigned a CRPR of **Low** represent likely no impacts to planned improvements such as right-of-way acquisition, utilities, roadway, bridge, and pond construction. However, in the time period between completion of the CSE and roadway construction, the circumstances can change substantially. A contamination incident may have occurred within that time period or the materials handled may have changed. **NADIC** recommends that this CSER be updated for the facilities identified as **No** or **Low** in this report prior to construction activities. In addition, updated should be made if ROW acquisition or construction will occur more than one (1) year from the date of this report.

The following report presents the methodology, qualitative analysis, and recommendations resulting from the Contamination Screening Evaluation for McCulloch Road from North Orion Boulevard to North Tanner Road.

1.0 INTRODUCTION

NADIC has conducted a Contamination Screening Evaluation (CSE) of facilities along McCulloch Road Roadway from North Orion Boulevard to North Tanner Road and prepared a Contamination Screening Evaluation Report (CSER) for Orange County Public Works Department and Transportation Planning Division Roadway Conceptual Analysis (RCA). The CSE was conducted in conformance with methodology described in Part 2, Chapter 20 of Florida Department of Transportation's (FDOT) Project Development and Environment Study (PD&E) Manual, dated July 1, 2020, and in accordance with the scope and limitations of the American Society for Testing and Materials (ASTM) Practice E1527-13 for Phase I ESAs.

The purpose of this CSE was to identify presence/absence of Recognized Environmental Conditions (RECs) within the project corridor along McCulloch Road from North Orion Boulevard to North Tanner Road in Orange County. The process of evaluating the project study area for REC's potential contamination is undertaken to avoid costly construction delays as a result of encountering unexpected soil or groundwater contamination. Identification of potential problem areas early in the project development process allows involved parties to make informed decisions regarding avoidance or management of impacts. This CSE consisted of a desktop review of current and historical public records and site reconnaissance. This CSER describes the investigation's methods and findings and provides contamination risk potential ratings (CRPR) for potentially contaminated facilities sites based the presence/absence of Recognized Environmental Conditions (RECs) located in proximity to the project corridor.

This report identifies and evaluates areas of known or potential contamination in the project study area. It includes descriptions of the area's hydrogeological features and land use, and sites with potential concern. Recommendations are made concerning these potentially contaminated sites, as they relate to the proposed project.

1.1 Project Description

The study corridor along McCulloch Road begins at North Orion Boulevard and proceeds east approximately 1.3 miles to North Tanner Road. The vicinity map showing the approximate location of the proposed roadway improvements is shown on **Figure 1** in **Appendix A**. The site of the proposed improvements is generally located in Sections 1, 2, 35 and 36, Township 22 South, Range 31 East, in Oviedo SW, Florida.

The RCA has been initiated to study the widening of McCulloch Road from the current two-lane roadway to a four-lane divided road. In addition, the RCA includes evaluation of pedestrian, bicycle and other modes of transportation in the vicinity of UCF.

1.2 Purpose of Contamination Screening Evaluation (CSE)

The objective of this Contamination Screening Evaluation Report (CSER) was to identify RECs in connection with the project corridor, to the extent feasible pursuant to the processes prescribed in the ASTM E-1527-13 guidelines and in accordance with Part 2, Chapter 20 of the FDOT PD&E Manual, dated July 1, 2020. The term "*REC*" as defined by ASTM is the presence or likely presence of any hazardous substances or petroleum products in, on or at the subject property:

- due to a *release* to the *environment;*
- due to a *release* or likely *release* to the environment;
- Under conditions that pose a material *threat of* a future *release* to the environment

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. A *de minimis condition* is not a *recognized environmental condition*.

This CSER includes information gathered from federal, state, and local agencies; personal interviews with people familiar with facilities along the project corridor; project site visits were conducted by **NADIC** on January 19 and February 1, 2022.

1.3 Scope of Services Summary

The CSE includes a search distance of 500 feet from the right-of-way (ROW) line for petroleum, drycleaners, and non-petroleum facilities; 1,000 feet from the ROW line for non-landfill solid waste sites; and 0.5 mile from the ROW line for the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), NPLs, and landfill sites. This evaluation consisted of the following:

- Review of physical conditions such as topography and soils within the project corridor
- Review of land uses within the project corridor

- Review of public records databases maintained by the Florida Department of Environmental Protection (FDEP), EPA, and local agencies such as OCULUS, Nexus, Geospatial Open Data
- Review of a public records database search report prepared by Environmental Risk Information Services, Inc. (ERIS) and Netronline Environmental
- Review of historical aerial photographs dating to 1941
- Review of historical city directories listing businesses and residences within the project corridor
- Site reconnaissance to identify visual signs of environmental conditions on or adjoining to the study corridor and to verify the locations of potentially contaminated sites identified during desktop review
- Determination of a CRPR for each contamination site
- Preparation of a written report documenting our finds, opinions and conclusions.

1.4 Significant Assumptions

This report was prepared using information obtained from and/or provided by the following sources:

- Visual observation of the project corridor
- Available published information
- Third-party database searched, and
- Local/State government official and/or records

It is assumed that the information obtained through the above methods is valid and accurate as provided. The passage of time, manifestation of latent conditions and occurrence of future events or changes to existing codes/regulations may alter the conclusions and recommendations of this report.

1.5 Limitations and Exceptions

The opinions 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 **NADIC**, **DEWBERRY**, and Orange County. 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. Because of the

fact that **NADIC** relied upon information prepared by other parties not under contract to **NADIC**, we make 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, and 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 the Site conditions existing at the time when **NADIC**'s assessment was performed. It must be recognized, however, that a CSE 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 roadway corridor may vary from those at the locations where data was collected. **NADIC**'s ability to interpret investigation results is related to the availability of the data and the extent of the investigation activities. **NADIC** 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.

1.6 Special Terms and Conditions

The scope of work for this CSER did not include testing of electrical equipment for the potential presence of PCBs or the assessment of natural hazards such as naturally occurring asbestos or methane gas, assessment of the potential presence of radionuclides, or assessment of non-chemical hazards such as the potential for damage from earthquakes or floods. This report is a desktop review of existing and historical public records and site reconnaissance and did not include an extensive assessment of the environmental compliance status of the facilities or businesses operating along the project corridor, or a health-based risk assessment.

1.7 User Reliance

In preparing this CSER, **NADIC** and **DEWBERRY** relied, in whole or in part, on data and information provided by third parties, which information has not been independently verified by **NADIC** and **DEWBERRY** and which we have assumed to be accurate, complete, reliable, and current. Therefore, while **NADIC** has utilized the best efforts in preparing this report, we do not warrant or guarantee the conclusions set forth in this report which are dependent or based upon data, information or statements supplied by third parties.

This report is intended for Orange County's sole and exclusive use and is not for the benefit of any third party and may not be distributed to, disclosed in any form to, used by, or relied upon by, any third party without prior written consent of **NADIC** and **DEWBERRY** which consent may be withheld in its sole discretion.

Use of this report or any information contained herein, if by any party other than Orange County, shall be at the sole risk of such party and shall constitute a release and agreement by such party to defend and indemnify **NADIC** and **DEWBERRY** and its affiliates, officers, employees and subcontractors from and against any liability for direct, indirect, incidental, consequential or special loss or damage or other liability of any nature arising from its use of the report or reliance upon any of its content. To the maximum extent permitted by law, such release from and indemnification against liability shall apply in contract, tort (including negligence), strict liability, or any other theory of liability.

2.0 CURRENT LAND USE

The current land uses within the project study area are shown on **Figure 2** in **Appendix A**. Land use information was obtained from Orange and Seminole Counties. The project study area within Orange County comprises of institutional, low density residential and some commercial activity center. Seminole County area comprises of higher intensity planned development transitional, low density residential and managed preservation undeveloped/natural lands,

Some Commercial Activity Centers are located at the intersection of McCulloch Road and Orion Road, and at the intersection of McCulloch Road and Tanner Road. Adjacent land uses having the potential for contamination typically include gas station, fire station and emergency diesel generators.

3.0 HYDROGEOLOGICAL FEATURES

3.1 Central Florida Hydrogeologic Features

The geology of Central Florida area is characterized by sedimentary strata formed during three distinct geologic periods. The surficial stratum is composed of undifferentiated Holocene/ Pleistocene/Pliocene age sands containing varying amounts of silt and clay, which extend typically to depths on the order of 40 to 60 feet below the ground surface. This upper, mostly sandy zone contains the surficial aquifer (water table). A Miocene age deposit, the Hawthorn Formation,

frequently underlies the surficial sands and is typically composed of clay, clayey sands and sandy limestone sometimes containing appreciable amounts of phosphate. This stratum extends to, typically, a depth of 80 to 120 feet beneath the existing ground surface and serves as the confining layer for the underlying Floridian Aquifer. The surficial aquifer (water table) is separated from the deeper Floridan aquifer by a semi-confining unit that is present throughout most of central Florida.

The Eocene age Ocala and Avon Park limestone formations are contained in the Floridian Aquifer, which is one of the most productive aquifers in the world. The extremely high productivity of this aquifer is directly related to its numerous cavities and interconnected channels. The deepest formation of the Eocene age is the Avon Park limestone. The Avon Park limestone consists mostly of hard brown dolostone and tan, granular limestone. In Orange County, the Avon Park limestone formation is approximately 300 to 350 feet thick. Above the Avon Park limestone is the Ocala limestone. The Ocala limestone is a loose to moderately well cemented mass of very small to large microfossils with much less dolostone than the Avon Park limestone. Typically, the Ocala limestone contains almost pure limestone with no dolostone, although the lower few feet can be partly dolomitized in some areas.

Local rainfall, irrigation, lakes, ditches, and streams recharge water in the surficial aquifer; however, upward leakage can occur in areas where the potentiometric surface of the Upper Floridan Aquifer is above the water table. Impacts caused by surface releases of petroleum are typically limited to the upper surficial aquifer due to the low specific gravity of petroleum constituents; however, impacts from certain solvents or inorganic constituents can migrate deeper into the surficial aquifer and potentially affect the Floridan aquifer. Surface overflow generally drains rainfall across the project corridor. Surface topography, stormwater management features (ponds, swales), and local geological features (sinkholes) may influence local surficial groundwater flow directions.

3.2 USGS Quadrangle Map

The “Oviedo SW, FL” USGS topographic map issued in 2021, in the vicinity of the McCulloch Road was reviewed. The project corridor is shown on an excerpt of the USGS topographic map and presented on **Figure 2** in **Appendix A**. The map shows the ground surface elevation in the project vicinity to range from approximately +25 to +65 feet, North American Vertical Datum of 1988 (NAVD-88).

3.3 USDA NRCS Orange County Soil Survey

The Orange and Seminole Counties Soil Survey published by the United States Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS) is a comprehensive publishes source of information regarding near-surface soil and surficial groundwater depth. The NRCS Orange and Seminole Counties Soil Survey were reviewed for information regarding near-surface soil conditions within the study corridor.

The Orange County soil survey identified the following five (5) primary mapping soil units within the limits of the project corridor.

Table 1A:
USDA/NRCS Orange County Soil Survey Summary

Soil Unit	Depth (inches)	Soil Description	AASHTO*	Hydrologic Soil Group	USDA SHGWT (ft.) **
Basinger (3)	0 - 7	Fine sand	A-3	A/D	+2 – 1.0
	7 - 32	Sand, fine sand	A-3, A-2-4		
	32 - 47	Sand, fine sand	A-3, A-2-4		
	47 - 80	Sand, fine sand	A-3, A-2-4		
Felda (15)	0 – 24	Fine sand	A-3	B/D	0 – 1.0
	24 - 47	Sandy loam, fine sandy loam	A-2-4, A-2-6		
	47 - 80	Fine sand, sand	A-3		
Pomello (34)	0 - 40	Fine sand	A-3	C	2.0 – 3.5
	40 - 55	Coarse sand, sand, fine sand	A-3, A-2-4		
	55 - 80	Coarse sand, sand, fine sand	A-3		
Sanibel (42)	0 – 11	Muck	A-8	B/D	+1 – 1.0
	11 – 15	Sand, fine sand, mucky fine sand	A-3		
	15 - 80	Sand, fine sand	A-3		
Smyrna-Smyrna (44)	0 - 17	Fine sand	A-3, A-2-4	B/D	0 – 1.0
	17 - 27	Sand, fine sand, loamy fine sand	A-3, A-2-4		
	27 - 80	Sand, fine sand	A-3		

*AASHTO: American Association of State Highway and Transportation Officials.
**SHGWT: Seasonal High Groundwater Table

The Seminole County soil survey identified the following five (5) primary mapping soil units within the limits of the project corridor (See **Table 1B** below).

Table 1B:
USDA/NRCS Seminole County Soil Survey Summary

Soil Unit	Depth (inches)	Soil Description	AASHTO*	Hydrologic Soil Group	USDA SHGWT (ft.) **
Basinger, Samsula, Hontoon (10)	0 – 6 6 - 80	Mucky fine sand Sand, fine sand	A-3, A-2-4 A-3, A-2-4	D	+2 – 0.0
	0 – 26 26 - 80	Muck Sand, fine sand, loam sand	A-8 A-3, A-2-4	B/D	
	0 - 80	Muck	A-8	B/D	
Brighton, Samsula Sanibel (17)	0 – 8 8 - 80	Muck, Mucky peat	A-3	B/D	+2 – 0.0
	0 – 26 26 - 80	Muck Sand, fine sand, loamy sand	A-8 A-3, A-2-4		
	0 – 6 6 – 8 8 - 80	Muck Sand, fine sand, sand, mucky fine sand Sand, fine sand	A-8 A-3 A-34		
Manatee Floridiana, Holopaw (19)	0 – 10 10 – 52 52 - 80	Fine sand Fine sandy loam, sandy loam Fine sandy loam, sandy loam, loamy fine sand	A-3, A-2-4 A-2-4 A-2-4	D	0 – 1.0
	0 – 18 18 – 29 29 - 80	Mucky fine sand Fine sand, sand Sandy loam, fine sandy loam, sandy clay loam	A-3, A-2-4 A-3 A-2-4, A-2-6		
	0 – 50 50 - 80	Fine sand, sand Fine sandy loam, sandy clay loam	A-3 A-2-4, A-2-6		
Myakka EauGallie (20)	0 – 28 28 – 45 45 - 80	Fine sand, sand Sand, fine sand, loamy fine sand Sand, fine sand	A-3 A-3, A-2-4 A-3	B/D	0 – 1.0
	0 – 18 18 – 30 30 – 41 41 – 60 60 – 80	Fine sand Sand, fine sand Sand, fine sand Sandy loam, fine sandy loam, sandy clay loam Sand, loamy sand, loamy fine sand	A-3 A-3, A-2-4 A-3, A-2-4 A-2-4, A-2-6 A-3, A-2-4		
Pomello (27)	0 - 40	Fine sand	A-3	C	2.0 – 3.5
	40 - 55	Coarse sand, sand, fine sand	A-3, A-2-4		
	55 - 80	Coarse sand, sand, fine sand	A-3		

*AASHTO: American Association of State Highway and Transportation Officials.
**SHGWT: Seasonal High Groundwater Table

Refer to **Figure 4** in **Appendix A** for a reproduction of the USDA NRCS Orange and Seminole Counties Soil Survey map for the project area. The NCRS Soil Survey generally identifies these soil types with very poorly to excessively well drained soil, with permeability ranging from moderately high to very high. The NRCS Soil Survey predicts the groundwater levels for these soil types to range from the natural ground surface to about 42 inches below the natural ground surface.

Information from the NCRS Soil Survey is very general and may be outdated due to recent developments in the project site vicinity. Therefore, it may not reflect the actual soil and groundwater conditions, particularly if development has modified the natural soil conditions or surface and near surface drainage.

4.0 METHODOLOGY

The methodology used to complete this CSER included obtaining pertinent environmental records from federal, state and local regulatory agencies, reviewing and evaluating a computerized environmental database, interviewing people knowledgeable of the project area, performing a visual reconnaissance of the project corridor and surrounding area, and evaluating potential environmental impacts along the project corridor. **NADIC** defined the corridor buffer zone to be approximately 1000 feet (0.19 miles) wide.

4.1 Historical Data Review

4.1.1 Historical Aerial Photograph Review

Historical aerial photographs of the project corridor were reviewed to evaluate past land uses and to identify features that could indicate recognized environmental concerns in connection with the project corridor. Historical aerial photographs were accessed through ERIS and Google Earth and were not available before 1940. Aerial photographs for the following years were reviewed: 1940, 1949, 1957, 1969, 1974, 1984, 1990, 1995, 1999, 2005, 2007, 2010, 2013, 2015, 2017 and 2019. These aerial photographs are presented in **Appendix B**.

A summary of the historical aerial review is presented in **Table 2**, below**.**

Table 2:
Historical Aerial Photograph Review

Year	Database Source	Summary
1940	ASCS	An unimproved roadway is apparent along existing Tanner Road corridor from Orange County to Seminole County. McCulloch Road corridor is not apparent.
1949	AMS	McCulloch Road corridor is not apparent.
1957	ASCS	No change along the project corridor. McCulloch Road corridor is not apparent. Unimproved roads appear north of Lake Price and south of the existing McCulloch Road from Tanner Road to the west
1969	FDOT	Project corridor remains unchanged. Apparent development west of Tanner Road and south of the existing McCulloch
1974	FDOT	Unimproved road is apparent along the project corridor. Some developments are visible along west of Tanner Road.
1984	USGS	Some developments are visible south of the project corridor and west of Tanner Road
1990	USGS	Significant development south of McCulloch Road and west of Tanner Road. Lockwood Boulevard is visible
1995	USGS	University Estates and Madison Park subdivisions are visible south and north of the project corridor, respectively. Orion Boulevard and Lockwood Boulevard are connected at McCulloch Road.
1999	USGS	Orange/Seminole Fire Rescue Station 65 is visible at the southeast corner of McCulloch and Orion Boulevard
2005	USDA	Chervon Gas Station is visible at northeast corner of McCulloch Road and Orion Boulevard. Developments are visible northwest and southeast corners of McCulloch Road and Tanner Road
2006	USDA	Project Corridor is unchanged
2007	USDA	Project corridor is unchanged
2010	USDA	Project Corridor remain unchanged
2013	USDA	Project Corridor remain unchanged
2015	USDA	Wawa Gas Station and clearing for AdventHealth Four Corners ER are visible
2017	USDA	Project Corridor remain unchanged
2019	USDA	Project Corridor remain unchanged.

4.1.2 USGS Topographic Quadrangles

USGS topographic quadrangle maps were created to map the nation's landscape starting in 1879. Topographic maps show geographic features including railroads, rivers, streams, lakes, boundaries, landfills, structures, roadways, and several other features. For this type of study features such as railroads, landfills, depressions, and agriculture (especially row crops) provide indications of areas of potential for contaminants or buried debris.

NADIC reviews the following historical topographic quadrangle maps for the project provided by ERIS: 1953, 1956, 1970, 1980, 1984 and 2015. No indications of landfills, railroads, or other potential contamination were identified. The topographic maps are presented in **Appendix C.**

4.1.3 City Directories

City directories are listings of businesses and residences in an area, similar to a standard telephone book. Listings are organized by address, phone number, or name. For studies of this type, the listing by address for previous years is generally utilized to identify past land uses within the project corridor; however, city directories do not contain any information regarding tanks or hazardous materials. **NADIC** contracted ERIS to search city directories for the project corridor presented in **Appendix D**. City directories were available from 1925 through 2020 for the project corridor vicinity, however there were no listing from 1925 through 2001 for the project corridor.

4.1.4 Fire Insurance Maps

Insurance companies prepared fire insurance maps, such as those created by the Sanborn Map Company, for use in assessing fire risk, particularly in historically urban areas. These maps contain details about building construction, business type, building contents, fuel storage tanks, and other factors affecting fire risk. **NADIC** requested that ERIS perform a search of publicly available historical fire insurance maps for the site and its vicinity. According to ERIS, no maps were available for the project corridor, as presented in **Appendix E**.

4.2 Corridor Reconnaissance and interviews

NADIC performed site visits on December 19, 2021 and February 1, 2022. The purpose of the reconnaissance was to document existing conditions and evaluate whether current land uses could potentially result in hazardous materials or petroleum product contamination of environmental media. The properties within the project corridor were visually inspected for evidence of contamination such as stressed vegetation, accumulated areas of debris, evidence of buried

materials, etc. Potential contamination sites were identified as well as specific details of observations made in the field.

Sites presenting a risk for contamination based on observations made during site reconnaissance are listed in the **Table** below shown as "Surveyed Facilities".

Table 3: Surveyed Facilities

Facility Name/ID.	Address	Facility Type	Survey Status
7-Eleven Store #37926. **DEP Facility: 9805292**	1640 MCCULLOCH RD OVIEDO FL 32765	Open Gas Station	Interviewed Manager and emailed questionnaire. No response
Orange County Fire & Rescue #65. **DEP Facility 9802715**	4999 B ORION BLVD ORLANDO FL 32826	Open	No Interview

Photographs taken during site reconnaissance to document general site conditions and pertinent observations are provided in **Appendix F**.

NADIC representative also interviewed representative occupants of the related properties along the corridor. In addition, **NADIC** provided questionnaires to the facility representative to complete. Sample questionnaire document is provided in **Appendix G**.

None of the questionnaires were collected, though we followed up with emails**.** Attempts were made to interview regulatory agency personnel regarding potential contamination sources along the project corridor but were recommended to search the public databases such as those available through FDEP's MapDirect, Nexus, and OCULUS databases at the state level, and EPA's Superfund and Envirofacts databases at the federal level.

4.3 Standard Environmental Record Sources

A public records review was performed to identify documented contamination and potential contamination sources within the project corridor or within buffer distances prescribed in the PD&E Manual, dated July 1, 2020. A search of available environmental records was conducted by ERIS. The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquires (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527 -13) and FDOT PD&E Manual, Part 2, Chapter 20, Contamination Impacts), dated July 1, 2020. A copy of ERIS Database Report is provided as **Appendix H**.

More detailed information regarding the individual facilities searched along the corridor is included in the ERIS report in **Appendix H**. The ERIS Report also includes information regarding the status of the facility, distance from the project corridor, reports of discharge, and clean-up status. The ERIS Data Report also includes a description of the various information sources and database update information.

4.3.1 Federal Database Sources

The following federal databases were included in the ERIS database search for the project corridor and prescribed buffer zones:

- NPL "Superfund" Sites
- Proposed NPL Sites
- Superfund Enterprise Management System (SEMS)
- Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) Sites
- CERCLIS Liens
- RCRA Corrective Action Sites (CORRACTS)
- RCRA Non-CORRACTS Treatment, Storage, and Disposal (TSD) Sites
- RCRA generator lists (conditionally exempt, small-quantity, and large-quantity generators)
- RCRA Inventory of Open Dumps
- Facility Index System (FINDS) Sites
- Toxic Release Inventory System (TRIS)
- Hazardous Materials Incident Response System (HMIRS) Sites
- Federal Institutional Controls/Engineering Controls Registry (Federal IC/EC)
- Emergency Response Notification System (ERNS) Sites

4.3.2 State Database Sources

The following state-level database sources, primarily maintained by FDEP, were included in the ERIS search for the project corridor and prescribed buffer zones:

- State and tribal NPL and CERCLIS equivalent sites
- State and tribal lists of hazardous waste sites identified for investigation or remediation – dry cleaning facilities
- State and tribal landfill and solid waste disposal sites
- State and tribal registered USTs and aboveground storage tanks (AST)
- State and tribal leaking storage tanks (LST)
- State and tribal IC/EC
- State and tribal voluntary cleanup sites

- State and tribal Brownfield sites

4.3.3 Additional Data Sources

The following additional sources were reviewed for supplemental information:

- FDEP online database, including OCULUS, Nexus, Geospatial Open Data and Florida Sites Summary List. Selected Regulatory documents are presented in **Appendix I.**
- Netronline Environmental Radius Report

5.0 QUALITATIVE ANALYSIS

The environmentally sensitive sites within the project corridor could impact the cost of construction of the proposed roadway improvements. **NADIC** defined the corridor buffer zone to be approximately 500 feet from the ROW line for petroleum, drycleaners and non-petroleum sites and 1,000 feet from ROW line for non-landfill solid waste such as recycling facilities, transfer stations and debris placement areas.

A determination of the risk of encountering contamination was made for all facilities after review of all available information. These determinations are based on the following: existence of contamination at the facility, direction of groundwater flows, clean-up efforts on the known contaminated sites, distance of the subject property to the proposed roadway improvements corridor, questionnaire results, where applicable, and on the degree of concern to the proposed project. The Contamination Risk Potential Rating (CRPR) identifies four degrees of risk for general reference purposes.

Based on our review of the FDEP database, FDEP Florida Site Summary lists and the **ERIS** Database report **NADIC** located environmental sensitive properties adjacent to the project corridor. Based on the review, no known contaminated facility is located within the proposed project improvements buffer

5.1 Contamination Risk Potential Rating

A CRPR was assigned to each potentially contaminated site in the project corridor, as determined by the public records review, historical aerial photograph review, site reconnaissance, and interviews. The CRPR system was developed by FDOT (Part 2, Chapter 20 PD&E, dated July 1, 2020) and is defined by four categories:

The risk ratings are defined as follows:

1. **No:** After review of all available information on the property, there is no indication contamination would be a problem at the facility. It is possible that contaminants could have been handled on the property; however, all available information (FDEP, monitoring wells, water and soil samples, etc.) indicate problems should not be expected.

2. **Low**: The former or current site operation has hazardous waste generator identification (ID) number, or deals with hazardous materials; however, based on all available information, including sampling and test results, there is no reason to believe there would be any involvement with contamination in relation to this project.

3. **Medium**: The subject property is located near or at the same location of as a known contaminated site, and there is a record shown that a cleanup effort has performed in the vicinity. If there is insufficient information (such as a lack of regulatory records or site historical documents) to make a determination as to the potential for contamination impact, and there is reasonable suspicion that contamination may exist, the property should be rated at least as a "Medium." Properties used historically as gasoline stations that have not been evaluated or assessed by regulatory agencies and sites with abandoned-in-place underground petroleum storage tanks or currently operating gasoline stations should receive this rating. Included within this risk rating are sites which present a moderate degree of concern regarding contamination but do not have sufficient indications of contaminations to be included in high-risk category.

4. **High**: After a review of all available information, there is a definite potential for contamination problems. Further assessment will be required to determine the actual presence and/or levels of contamination and the need of remedial action. Included in this category is a facility located in the same location of known contaminated sites that has no record of a cleanup effort.

The CRPRs are based on current conditions and may not reflect conditions that may exist in the future. Based on the criteria established above, the facilities are grouped as follows:

5.2 Potential Contamination Sites

Five (5) potentially contaminated sites were identified within the study corridor and were assigned a **No** and **Low**. None of the sites identified was assigned a rating of **Medium** or **High**. **Table 4** lists the sites identified in the study corridor and presents a summary of associated public records reviews and site reconnaissance observations. **Figure 5** in **Appendix A** illustrates the location of the Potential Contaminated Sites with the study corridor. Documents obtained from the public record search for various sites are included in **Appendix H**

Table 4:
Potential Contamination Sites

Site No.	Map ID	Facility ID	Site Name	Site Address	Source/ Database	Risk Rating	Comments
1	**1**	FDEP # 9805292	7-Eleven Store # 379 26	1640 McCulloch Road, Oviedo FL. 32765	**LST, UST**	**Low**	This facility has one (1) 12,000-gallon and one (1) 15,000-gallon UST installed September 2001. A Phase 1 ESA was performed at the site in July 2015. Phase II ESA performed in 2016 and 2017 indicated contaminant (benzene) concentrations above GCTL but below NADC. A Gasoline discharge occurred on August 31, 2017. No evidence of impact or a smear zone was observed in the soil samples. Groundwater samples were analyzed for TRPH, PAHs and VOCs in January 2018. No contamination was identified. No further action (NFA) without conditions was granted in November 2018. Based on the records reviewed, the site is assigned a risk rating of Low
2	**3**	FDEP # 9802715	Orange County Fire & Rescue # 65	4999 B Orion Blvd. Orlando, FL. 32826	**AST**	**Low**	This facility is located at the southeast corner of McCulloch Road and Orion Blvd. It has an emergency generator with 500-gallon tank capacity. Based on the records reviewed, the site is assigned a risk rating of Low
3	**4**	11003545 3960	McCulloch – Lockwood Retail	Corner of McCulloch Road and Lockwood Blvd. Oviedo FL. 32765	**FINDS /FRS**	**No**	This facility is a retail facility located at the west corner of McCulloch Road and Lockwood Blvd. Based on the records reviewed, the site is assigned a risk rating of No
4	**5**	6103267	UCF North Substation	6900 North Orion Road Orlando FL 32826	**TIER**	**No**	This facility is located about 126 feet west of the corner of McCulloch Road and Lockwood Blvd. It is identified as a Substation operated by Duke Energy Florida, LLC. Based on records review and site reconnaissance, the facility was assigned a risk rating of No.
5	**6**	11002438 4101	Fifth-Third Bank	SE Corner of Tanner Road and McCulloch Rd. Orlando FL 32801	**FINDS /FRS**	**No**	This facility is a bank located about 26 feet southeast of the intersection of McCulloch Road and Tanner Road. The site is currently use by Econ River Family Dental. Based on records review and site reconnaissance, the facility was assigned a risk rating of No.

Abbreviations:

AST: Aboveground Storage Tank	OVA: Organic Vapor Analyzer
FDEP: Florida Department of Environmental Protection	PAHs: Polycyclic Aromatic Hydrocarbons
FINDS/FRS: Facility Registry Service/Facility Index	RCRA: Resource Conservation and Recovery Act
LST: Leaking Storage Tank	ROW: Right-of-Way
GCTL: Groundwater Cleanup Target Levels	TRPH: Total Recoverable Petroleum Hydrocarbons
Map ID: Figure 5 Potential Contamination Site Map	Tier 2: An annual federal report that is mandatory for companies that store hazardous materials.
NADC: Natural Attenuation Default Concentrations	VOCs: Volatile organic compounds
OCEPA: Orange County Environmental Protection Agency	UST: Underground Storage Tank

5.3 Agricultural Land Uses

Agricultural activities usually involve the use and storage of agrochemicals such as fertilizer, herbicides, pesticides, and petroleum products. Agrochemicals when applied in farmland usually accumulate in the shallow subsurface and can leach into groundwater.

Information obtained from the historical aerial photograph review and site reconnaissance indicated that no agricultural lands currently located within the study corridor.

5.4 Well Sites

NADIC utilized ERIS to conduct a physical setting search (see **Appendix J**), which includes registered well sites within the project corridor. The search was primarily conducted to identify the locations of permitted public water supply wells; however, the search also included Public Water Systems Violations and Enforcement data (PWSV), Safe Drinking Water Information System (SDWIS), USGS National Water Information System, Florida Subsidence Incident Report, Oil and Gas Wells, Public Water Supply Wells (PWSW), Underground Injection Control Wells, Water Use Permit Sites – South Florida Water Management District, Water Well Completion – St. Johns River Water Management District (SJRWMD), Water Well Construction Permits, Water Well Construction Permits- Southwest Florida Water Management District and Well Surveillance Program Water Wells. The database search identified no Public Water Systems Violations and Enforcement data wells within the corridor buffer zone.

6.0 RECOMMENDATION

A total of five (5) sites were identified within or adjacent to the project vicinity. Two (2) facilities were assigned a Low risk assessment and three (3) were assigned No risk assessment. No facility was assigned a Medium or High risk.

In the time period between completion of the CSE and roadway construction, the circumstances can change substantially. A contamination incident may have occurred within that time period or the materials handled may have changed. **NADIC** recommends that this CSER be updated for the facilities identified as No or Low in this report prior to construction activities. In addition, updated should be made if ROW acquisition or construction will occur more than one (1) year from the date of this report.

Potentially contaminated sites, within or near proposed roadway improvement corridor, have been identified and evaluated. Prior to roadway construction, an updated CSER is recommended to be performed to the determine if the conclusion made in this report has changed. Resolution of

problems associated with contamination should be coordinated with appropriate regulatory agencies and, prior to construction, appropriate action will be taken where applicable.

7.0 CLOSURE

It is our opinion that a complete environmental assessment of known/potentially contaminated facilities be conducted prior to roadway construction. The major concern would be dewatering at or near known contaminated areas. Extensive dewatering can cause contamination migration and may require costly treatment systems to obtain approval.

Professional judgments expressed herein are based on the facts currently available within the limits of the existing data from the ERIS report, FDEP and the scope of work. To the extent that more definite conclusions are desired than are warranted by the currently available facts, it is specifically **NADIC**'s intent that the conclusions and recommendations made herein are intended as guidance.

8.0 REFERENCES

American Standard Testing and Materials, ASTM E1527-13; Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

Florida Department of Environmental Protection (FDEP) database, September 20, 2021.

Florida Department of Transportation's (FDOT) Project Development and Environment (PD&E Manual, Part 2, Chapter 20, Contamination Impacts), dated July 1, 2020.

Florida Department of Environmental Protection Electronic Document Management System (OCULUS, 6.2; Nexus Enterprise Solution

Environmental Risk Information Services, Inc. (ERIS) Database Search, November 19, 2021.

Netronline Environmental Radius Report, November 3, 2021.

Orange County, Florida Future Land Use Map, Land Use Map, 2020.

United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Soil Survey for Orange County, Florida, August 20, 2021

APPENDIX A

Figure 1	**Vicinity Map**
Figure 2	**Land Use Map/Vicinity Map**
Figure 3	**USGS Quadrangle Map**
Figure 4	**USDA/NRCS Soil Survey Map**
Figures 5	**Potential Contamination Site Map**



QUADRANGLE: OVIEDO SW, FL (2021)
SECTION: 1 & 2 35 & 36
TOWNSHIP: T22S T21S
RANGE: R31E R31E

REFERENCE: Google Earth Aerial Maps

NOT TO SCALE

Approximate Project Location

REVISIONS				NAMES	DATES
DATES	BY	DESCRIPTION	DRAWN BY:	MB	11-16-2021
			CHECKED BY:	GNN	11-16-2021
			DESIGNED BY:	N/A	N/A
			MODIFIED BY:	N/A	N/A
			APPROVED BY:		

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PH (407) 521-4771 FAX (407) 521-4772
CERTIFICATE OF AUTHORIZATION NO. 8214

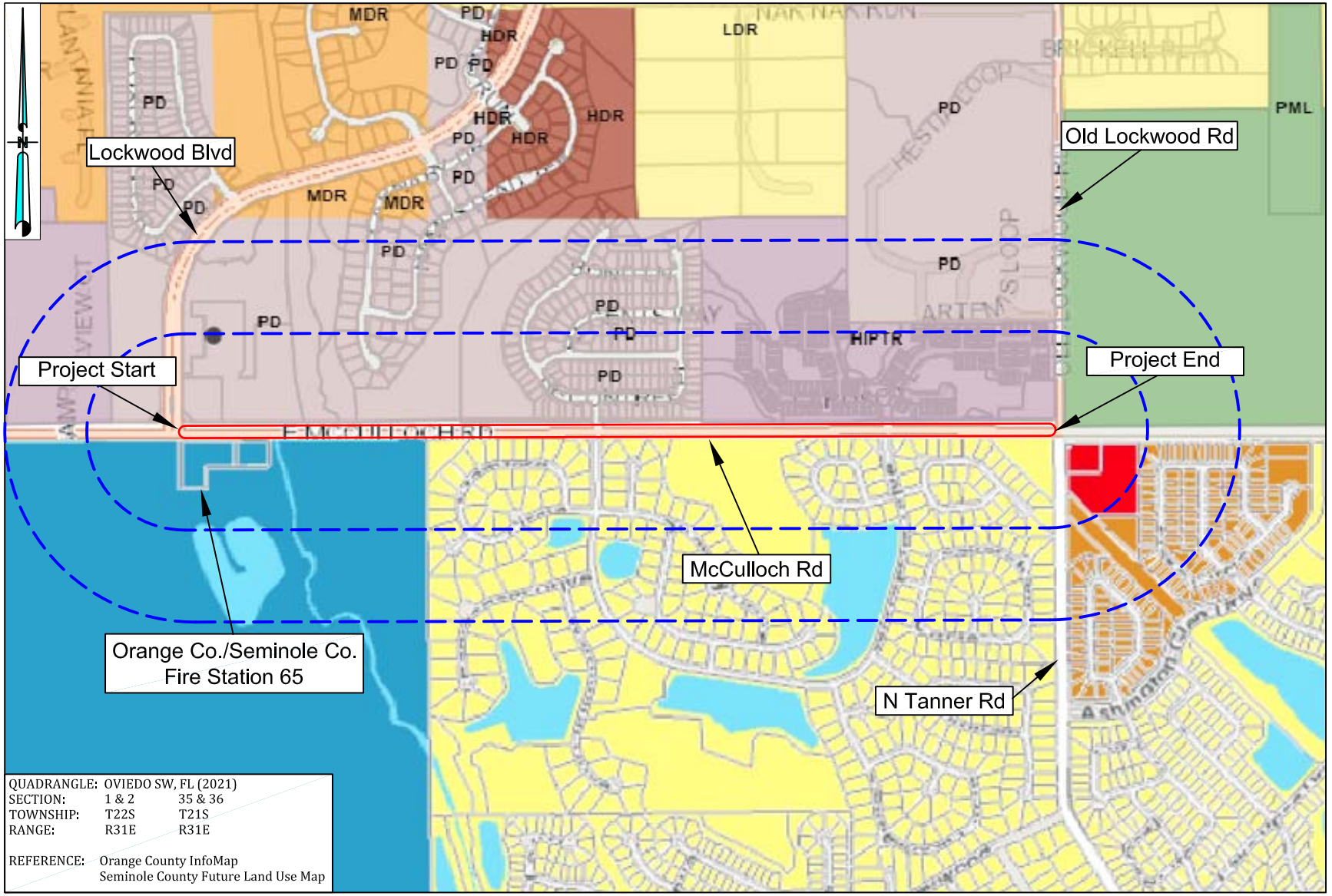
ORANGE COUNTY, FLORIDA

COUNTY	PROJECT No.
ORANGE	Y20-832-CH

FIGURE 1
VICINITY MAP

PROJECT NAME:
MCCULLOCH ROAD ROADWAY CONCEPTUAL ANALYSIS (RCA)

NADIC PROJECT NO.: PR.GEO-RD21007



LEGEND

- High Density Residential
- Higher Intensity Planned Development Transitional
- Low Density Residential Development
- Medium Density Residential Development
- Planned Development
- Preservation/Managed Lands
- Low Density Residential
- Low-Medium Density
- Commercial
- Institutional
- Water Body
- Approximate Project Location
- Buffer Outline

NOT TO SCALE

REVISIONS				NAMES	DATES
DATES	BY	DESCRIPTION	DRAWN BY:	MB	1-19-2022
			CHECKED BY:	GNN	1-19-2022
			DESIGNED BY:	N/A	N/A
			MODIFIED BY:	N/A	N/A
			APPROVED BY:		

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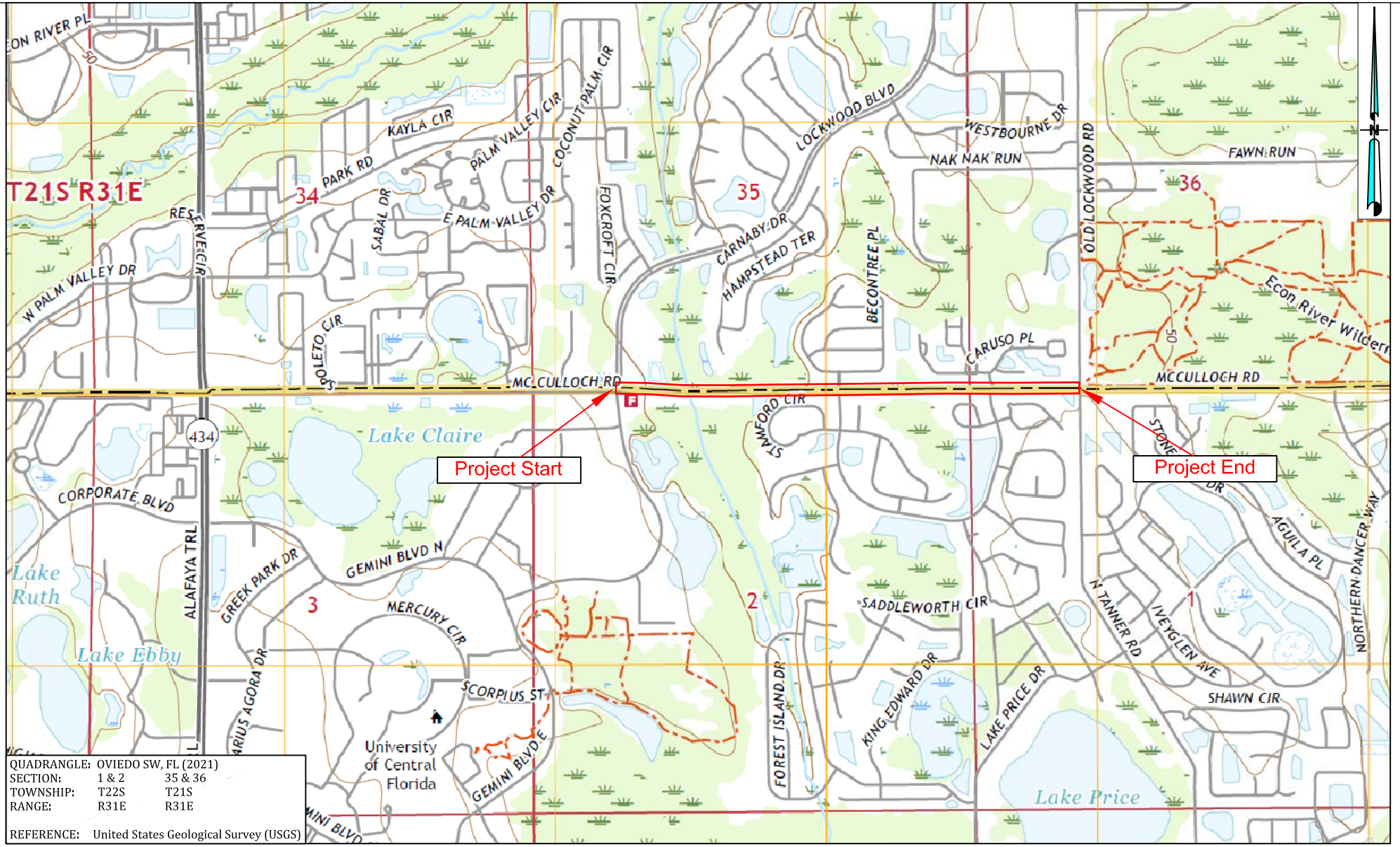
ORANGE COUNTY, FLORIDA

COUNTY	PROJECT No.
ORANGE	Y20-832-CH

FIGURE 2
LAND USE MAP

PROJECT NAME:
MCCULLOCH ROAD ROADWAY CONCEPTUAL ANALYSIS (RCA)

NADIC PROJECT NO.: PR.GEO-RD21007



NOT TO SCALE

Approximate Project Location

REVISIONS				NAMES	DATES
DATES	BY	DESCRIPTION	DRAWN BY:	MB	11-16-2021
			CHECKED BY:	GNN	11-16-2021
			DESIGNED BY:	N/A	N/A
			MODIFIED BY:	N/A	N/A
			APPROVED BY:		

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ORANGE COUNTY FLORIDA

ORANGE COUNTY, FLORIDA

COUNTY	PROJECT No.
ORANGE	Y20-832-CH

FIGURE 3
TOPOGRAPHIC MAP

PROJECT NAME:
MCCULLOCH ROAD ROADWAY CONCEPTUAL ANALYSIS (RCA)

NADIC PROJECT NO.: PR.GEO-RD21007



NOT TO SCALE

Approximate Project Location

REVISIONS				NAMES	DATES
DATES	BY	DESCRIPTION	DRAWN BY:	MB	11-16-2021
			CHECKED BY:	GNN	11-16-2021
			DESIGNED BY:	N/A	N/A
			MODIFIED BY:	N/A	N/A
			APPROVED BY:		

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ORANGE COUNTY FLORIDA

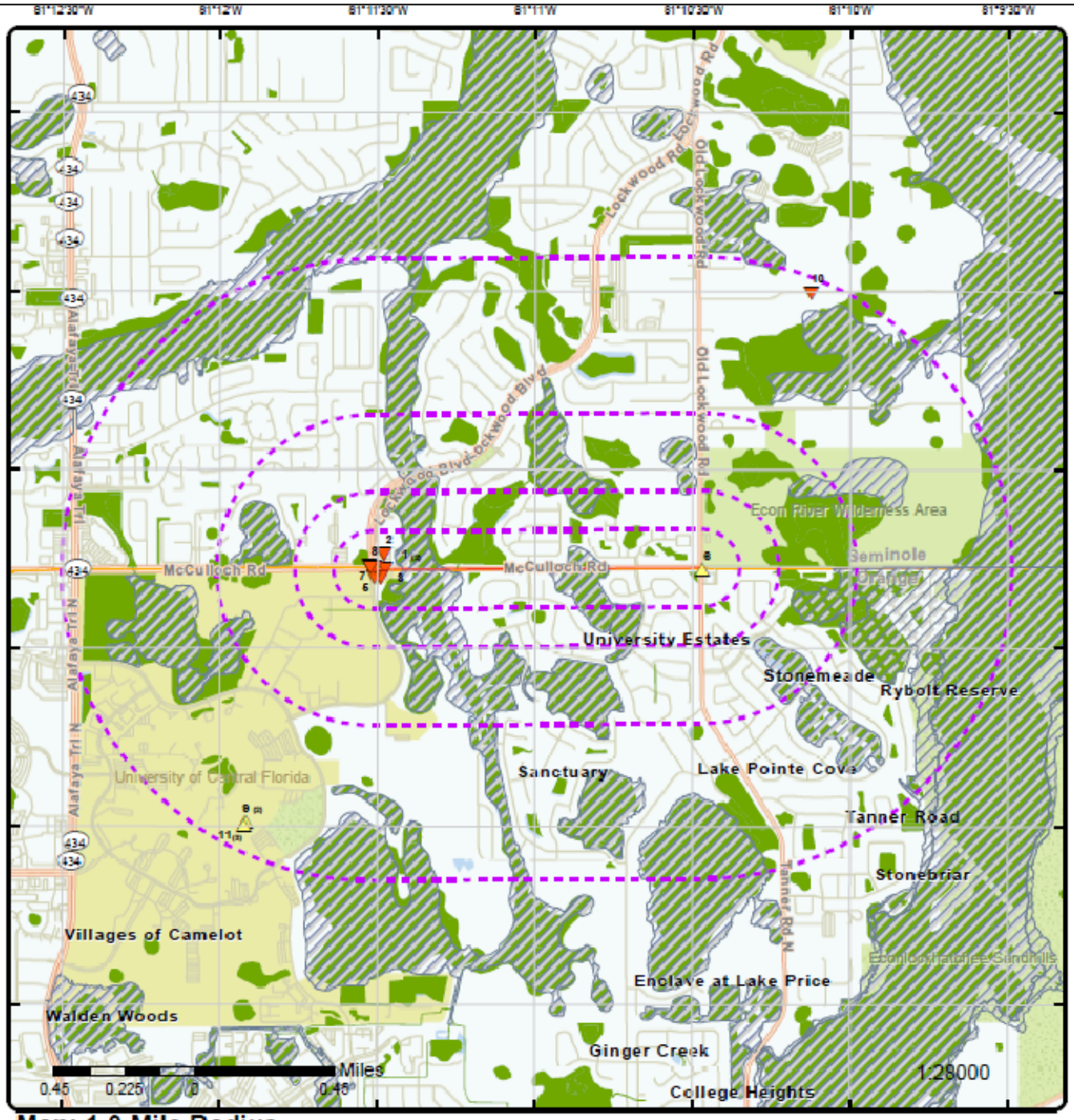
ORANGE COUNTY, FLORIDA

COUNTY	PROJECT No.
ORANGE	Y20-832-CH

FIGURE 4
SOIL SURVEY MAP

PROJECT NAME:
MCCULLOCH ROAD ROADWAY CONCEPTUAL ANALYSIS (RCA)

NADIC PROJECT NO.: PR.GEO-RD21007



Map: 1.0 Mile Radius

Order Number: 22012500722

Address: McCulloch Road, Oviedo, FL

ERIS

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Eris Areas with Higher Elevation
- Eris Areas with Same Elevation
- Eris Areas with Lower Elevation
- Eris Areas with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major & Minor Arterial
- Traffic Circle; Ramp
- Local Road
- Rail
- State
- Country
- National Priority List Sites
- National Wetland
- Indian Reserve Land
- Historic Fill
- 100 Year Flood Zone
- 500 Year Flood Zone
- FWS Special Designation Areas
- Plume

POTENTIAL CONTAMINATION SITE

MAP ID	SITE NAME	RISK RATING
1	7-ELEVEN	LOW
3	ORANGE COUNTY FIRE & RESCUE	LOW
4	MCCULLOCH - LOCKWOOD RETAIL	NO
5	UCF NORTH SUBSTATION	NO
6	FIFTH-THIRD BANK	NO

REVISIONS				NAMES	DATES
DATES	BY	DESCRIPTION	DRAWN BY:	MB	02-07-2022
			CHECKED BY:	GNN	02-07-2022
			DESIGNED BY:	N/A	N/A
			CHECKED BY:	N/A	N/A
			APPROVED BY:		

NADIC ENGINEERING

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CERTIFICATE OF AUTHORIZATION NO. 8214

ORANGE COUNTY, FLORIDA

COUNTY	CONTRACT No.
ORANGE	Y20-832-CH

FIGURE 5

POTENTIAL CONTAMINATION SITE MAP

PROJECT NAME:

MCCULLOCH ROAD ROADWAY CONCEPTUAL ANALYSIS (RCA)

NADIC PROJECT NO.: PR.GEO-RD21007

APPENDIX B

Historical Aerials

HISTORICAL AERIALS

Project Property: McCulloch Road Roadway
Conceptual Analysis (RCA)
McCulloch Road
Oviedo FL

Project No: PR.GEO-RD21007

Requested By: Nadic Engineering Services, Inc.

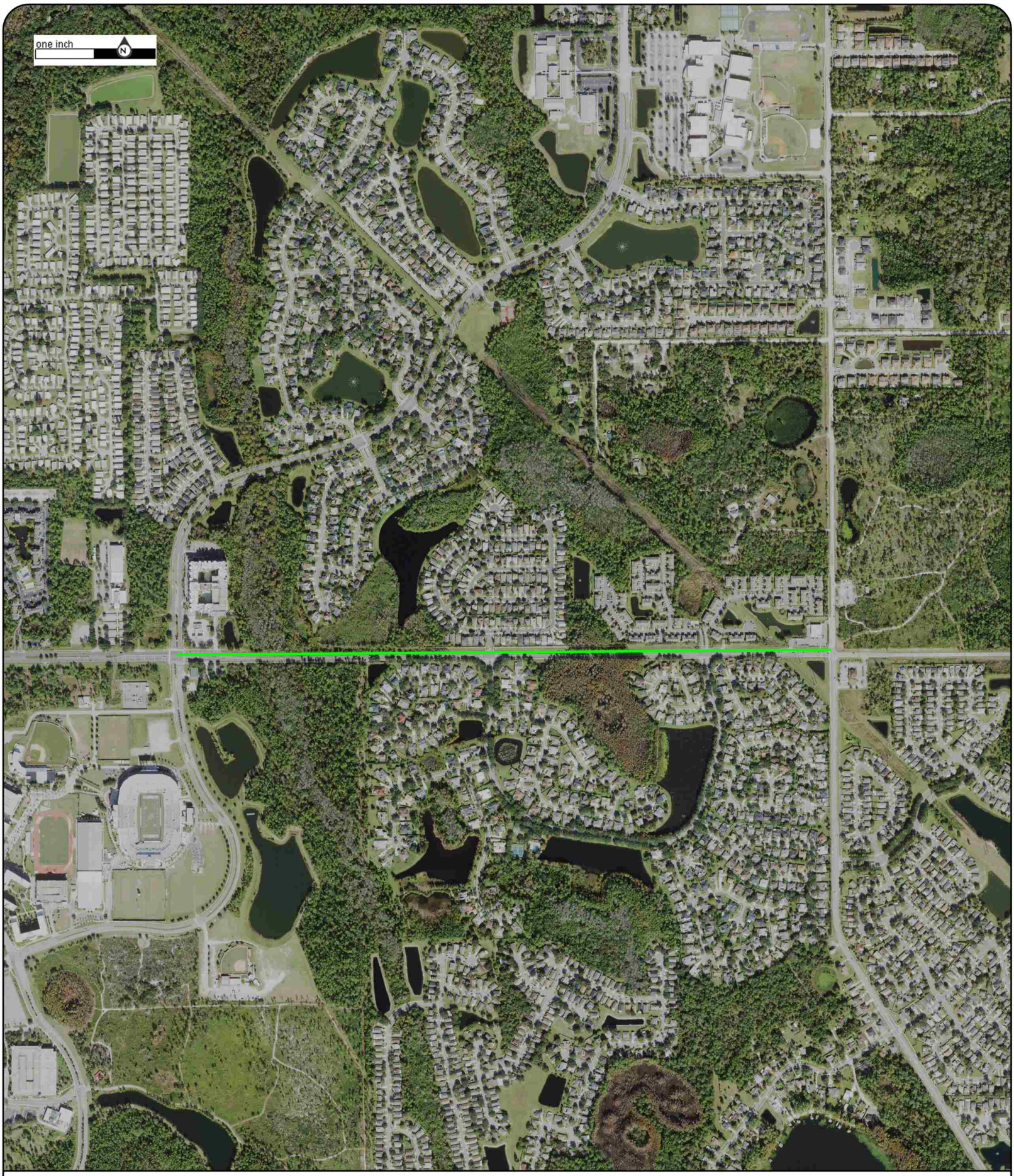
Order No: 22012500722

Date Completed: January 26,2022

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Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

Date	Source	Scale	Comments
2019	United States Department of Agriculture	1" = 1000'	
2017	United States Department of Agriculture	1" = 1000'	
2015	United States Department of Agriculture	1" = 1000'	
2013	United States Department of Agriculture	1" = 1000'	
2010	United States Department of Agriculture	1" = 1000'	
2007	United States Department of Agriculture	1" = 1000'	
2006	United States Department of Agriculture	1" = 1000'	
2005	United States Department of Agriculture	1" = 1000'	
1999	United States Geological Survey	1" = 1000'	
1995	United States Geological Survey	1" = 1000'	
1990	United States Geological Survey	1" = 1000'	
1984	United States Geological Survey	1" = 1000'	
1974	Florida Department of Transportation	1" = 1000'	
1969	Florida Department of Transportation	1" = 1000'	
1957	Agricultural Stabilization & Conserv. Service	1" = 1000'	
1949	Army Mapping Service	1" = 1000'	
1940	Agricultural Stabilization & Conserv. Service	1" = 1000'	



Year: 2019
Source: USDA
Scale: 1" = 1000'
Comment:

Address: McCulloch Road, Oviedo, FL
Approx Center: -81.18324115,28.61202323

Order No: 22012500722

ERIS



Year: 2017
Source: USDA
Scale: 1" = 1000'
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Order No: 22012500722

ERIS

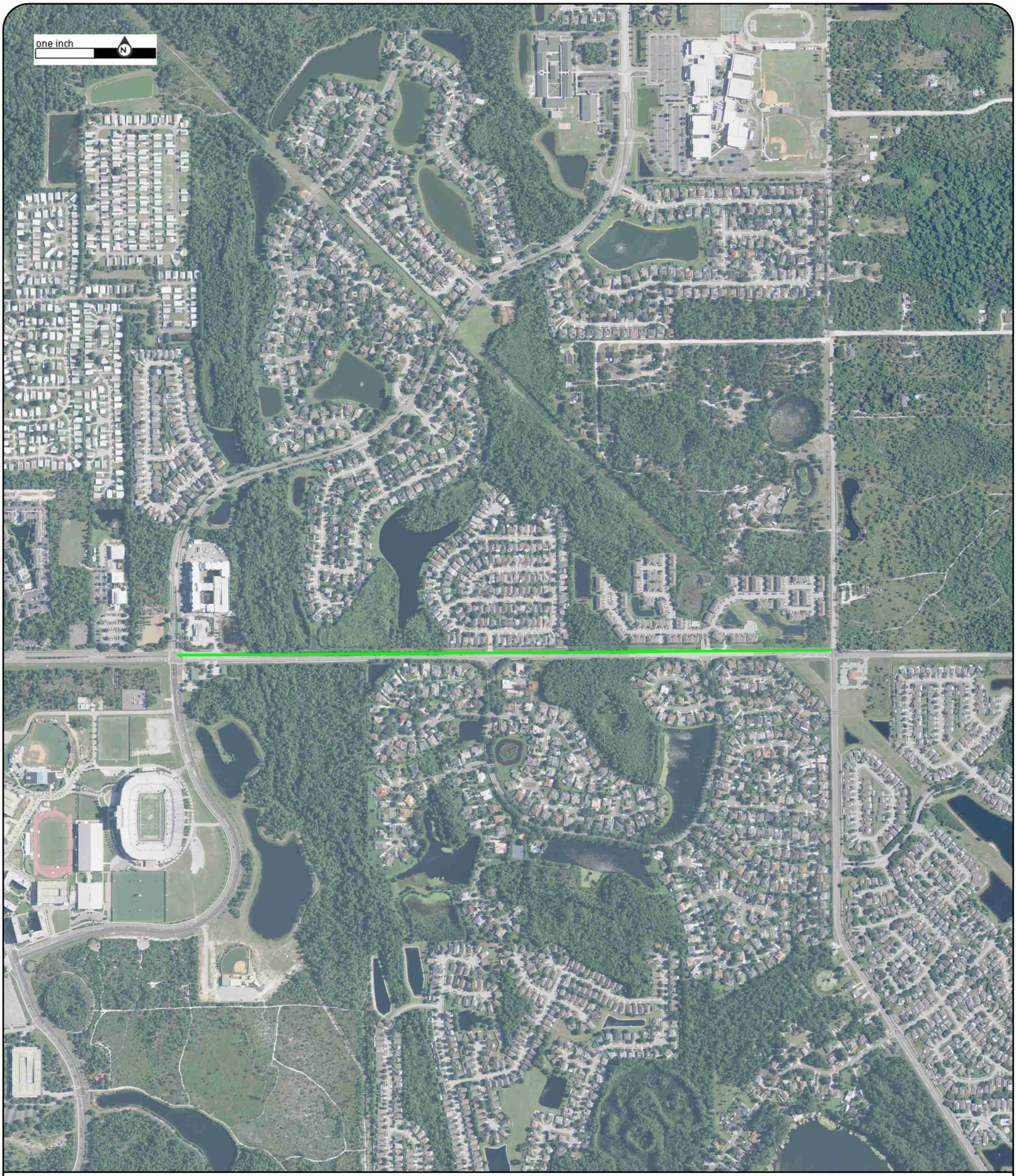


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Scale: 1" = 1000'
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Order No: 22012500722

ERIS



Year: 2013
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Scale: 1" = 1000'
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Order No: 22012500722

ERIS

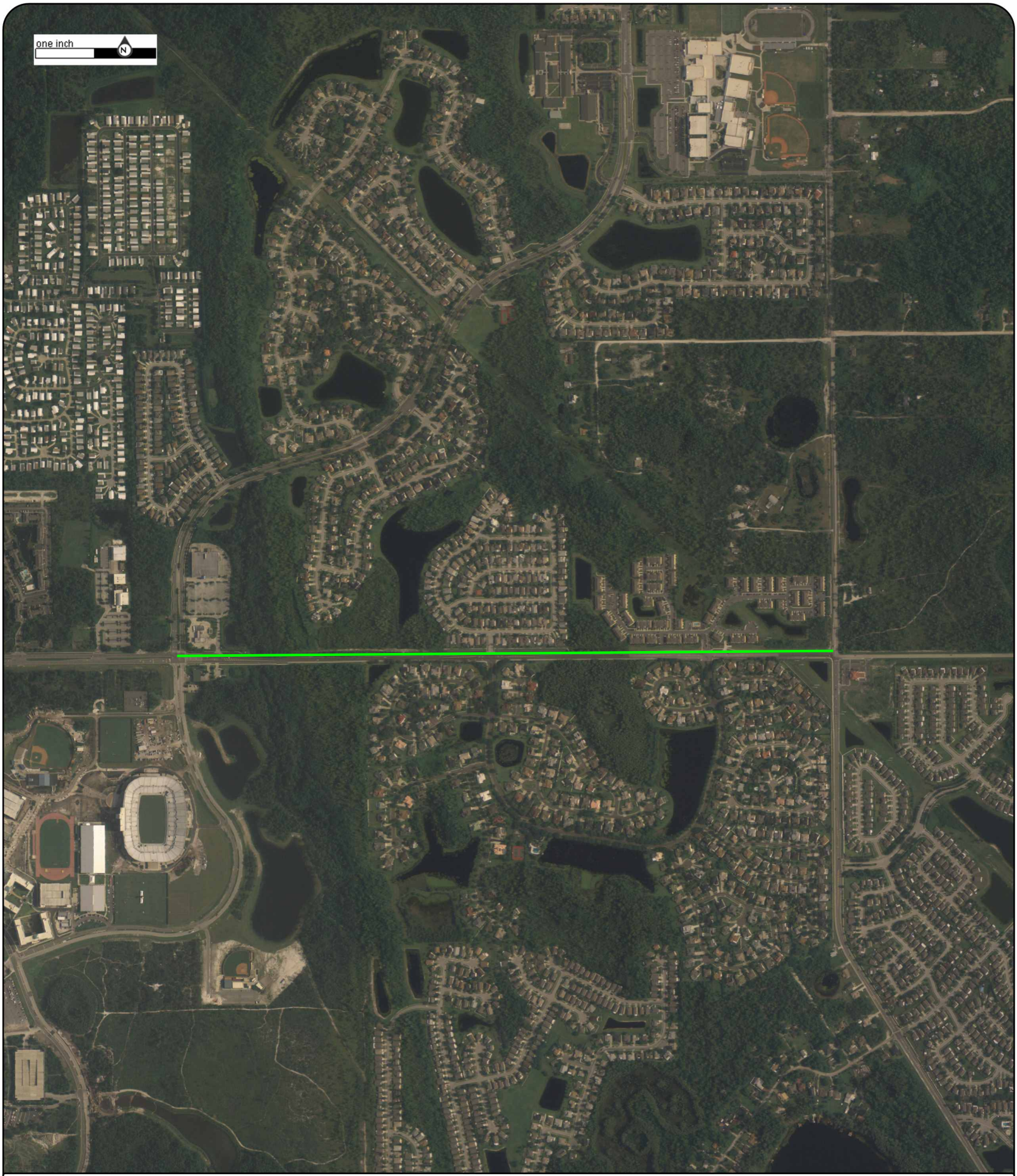


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Order No: 22012500722

ERIS



Year: 2007
Source: USDA
Scale: 1" = 1000'
Comment:

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Approx Center: -81.18324115,28.61202323

Order No: 22012500722

ERIS



Year: 2006
Source: USDA
Scale: 1" = 1000'
Comment:

Address: McCulloch Road, Oviedo, FL
Approx Center: -81.18324115,28.61202323

Order No: 22012500722

ERIS



Year: 2005
Source: USDA
Scale: 1" = 1000'
Comment:

Address: McCulloch Road, Oviedo, FL
Approx Center: -81.18324115,28.61202323

Order No: 22012500722

ERIS



Year: 1999
Source: USGS
Scale: 1" = 1000'
Comment:

Address: McCulloch Road, Oviedo, FL
Approx Center: -81.18324115,28.61202323

Order No: 22012500722

ERIS



Year: 1995
Source: USGS
Scale: 1" = 1000'
Comment:

Address: McCulloch Road, Oviedo, FL
Approx Center: -81.18324115,28.61202323

Order No: 22012500722

ERIS



Year: 1990
Source: USGS
Scale: 1" = 1000'
Comment:

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Approx Center: -81.18324115,28.61202323

Order No: 22012500722

ERIS



Year: 1984
Source: USGS
Scale: 1" = 1000'
Comment:

Address: McCulloch Road, Oviedo, FL
Approx Center: -81.18324115,28.61202323

Order No: 22012500722

ERIS



Year: 1974
Source: FDOT
Scale: 1" = 1000'
Comment:

Address: McCulloch Road, Oviedo, FL
Approx Center: -81.18324115,28.61202323

Order No: 22012500722

ERIS



Year: 1969
Source: FDOT
Scale: 1" = 1000'
Comment:

Address: McCulloch Road, Oviedo, FL
Approx Center: -81.18324115,28.61202323

Order No: 22012500722

ERIS

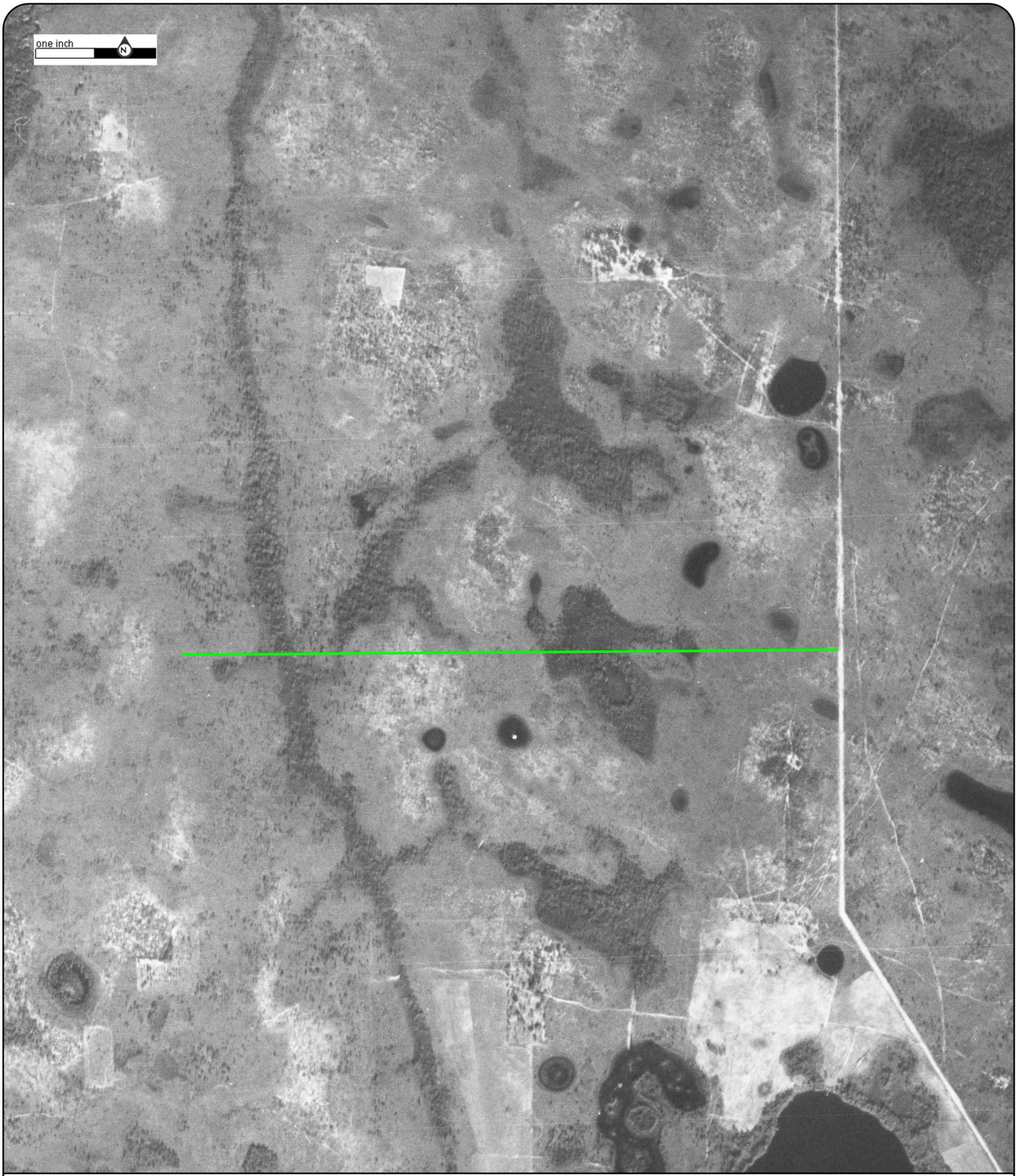


Year: 1957
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Comment:

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Order No: 22012500722

ERIS

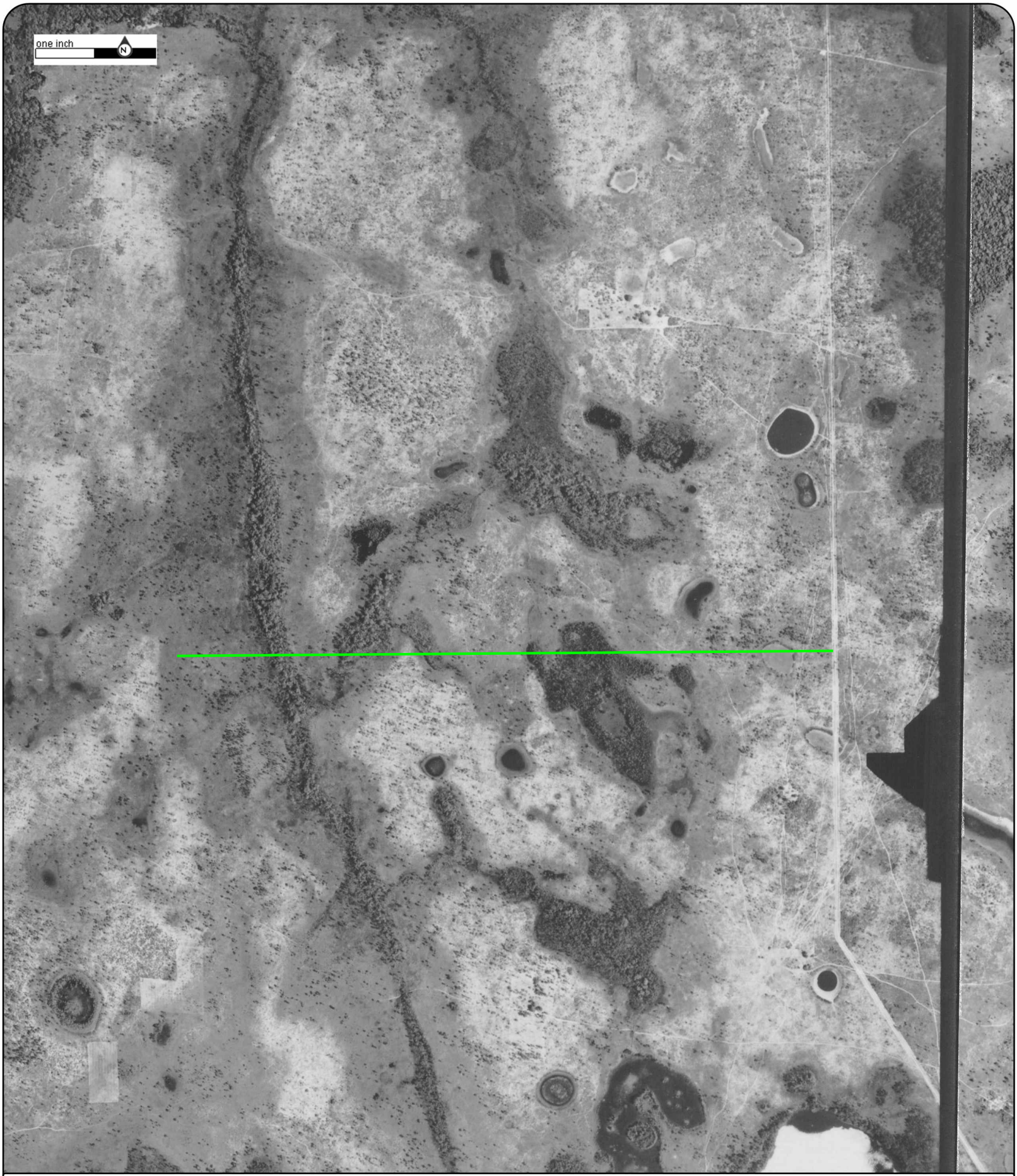


Year: 1949
Source: AMS
Scale: 1" = 1000'
Comment:

Address: McCulloch Road, Oviedo, FL
Approx Center: -81.18324115,28.61202323

Order No: 22012500722

ERIS



Year: 1940
Source: ASCS
Scale: 1" = 1000'
Comment:

Address: McCulloch Road, Oviedo, FL
Approx Center: -81.18324115,28.61202323

Order No: 22012500722

ERIS

APPENDIX C

ERIS Topographic Maps

TOPOGRAPHIC MAPS

Project Property:	McCulloch Road Roadway Conceptual■Analysis (RCA) McCulloch Road Oviedo FL None
Project No:	PR.GEO-RD21007
Requested By:	Nadic Engineering Services, Inc.
Order No:	22012500722
Date Completed:	January 26, 2022

Environmental Risk Information Services
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We have searched USGS collections of current topographic maps and historical topographic maps for the project property. Below is a list of maps found for the project property and adjacent area. Maps are from 7.5 and 15 minute topographic map series, if available.

Year	Map Series
2015	7.5
1984	7.5
1980	7.5
1970	7.5
1956	7.5
1953	7.5

Topographic Map Symbology for the maps may be available in the following documents:

Pre-1947

Page 223 of 1918 Topographic Instructions

Page 130 of 1928 Topographic Instructions

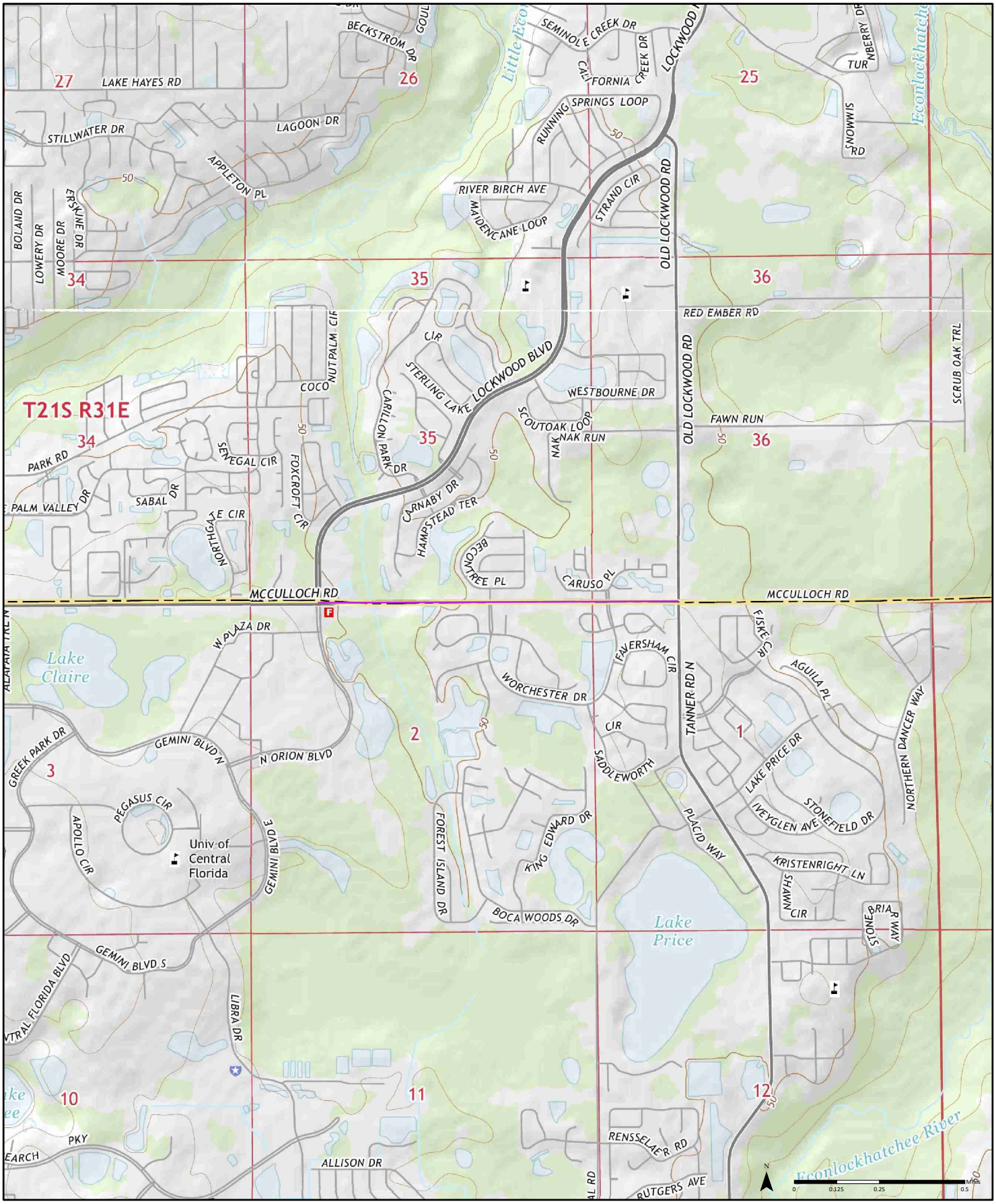
1947-2009

Topographic Map Symbols

2009-present

US Topo Map Symbols

Topographic Maps included in this report are produced by the USGS and are to be used for research purposes including a phase I report. Maps are not to be resold as commercial property.
No warranty of Accuracy or Liability for ERIS: The information contained in this report has been produced by ERIS Information Inc.(in the US) and ERIS Information Limited Partnership (in Canada), both doing business as 'ERIS', using Topographic Maps produced by the USGS. This maps contained herein does not purport to be and does not constitute a guarantee of the accuracy of the information contained herein. Although ERIS has endeavored to present you with information that is accurate, ERIS disclaims, any and all liability for any errors, omissions, or inaccuracies in such information and data, whether attributable to inadvertence, negligence or otherwise, and for any consequences arising therefrom. Liability on the part of ERIS is limited to the monetary value paid for this report.

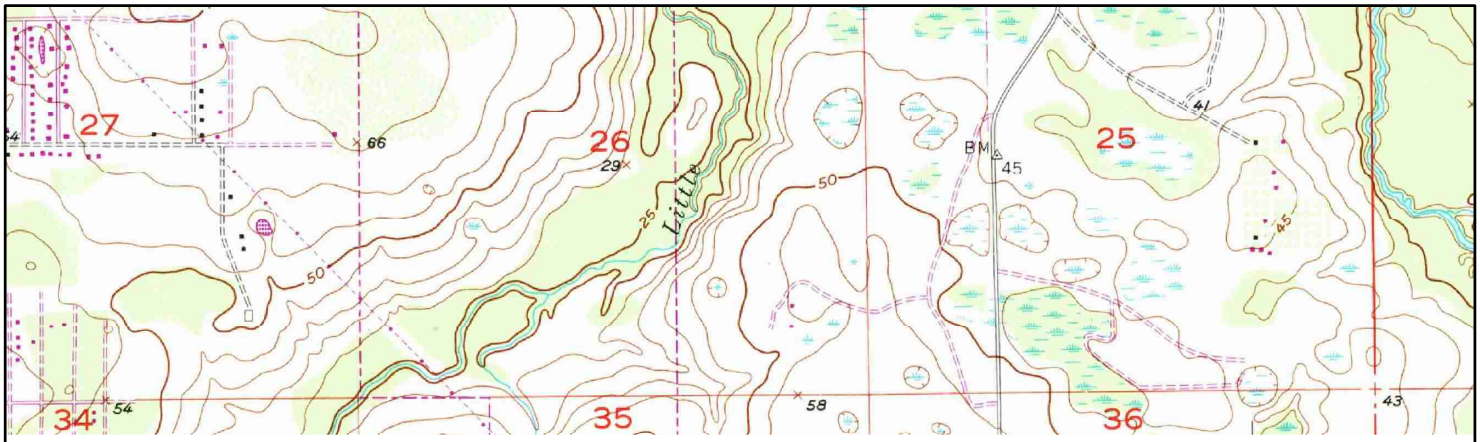


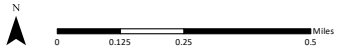
2015

Quadrangle(s): Oviedo SW, FL; Oviedo, FL

Order No. 22012500722

Source: USGS 7.5 Minute Topographic Map



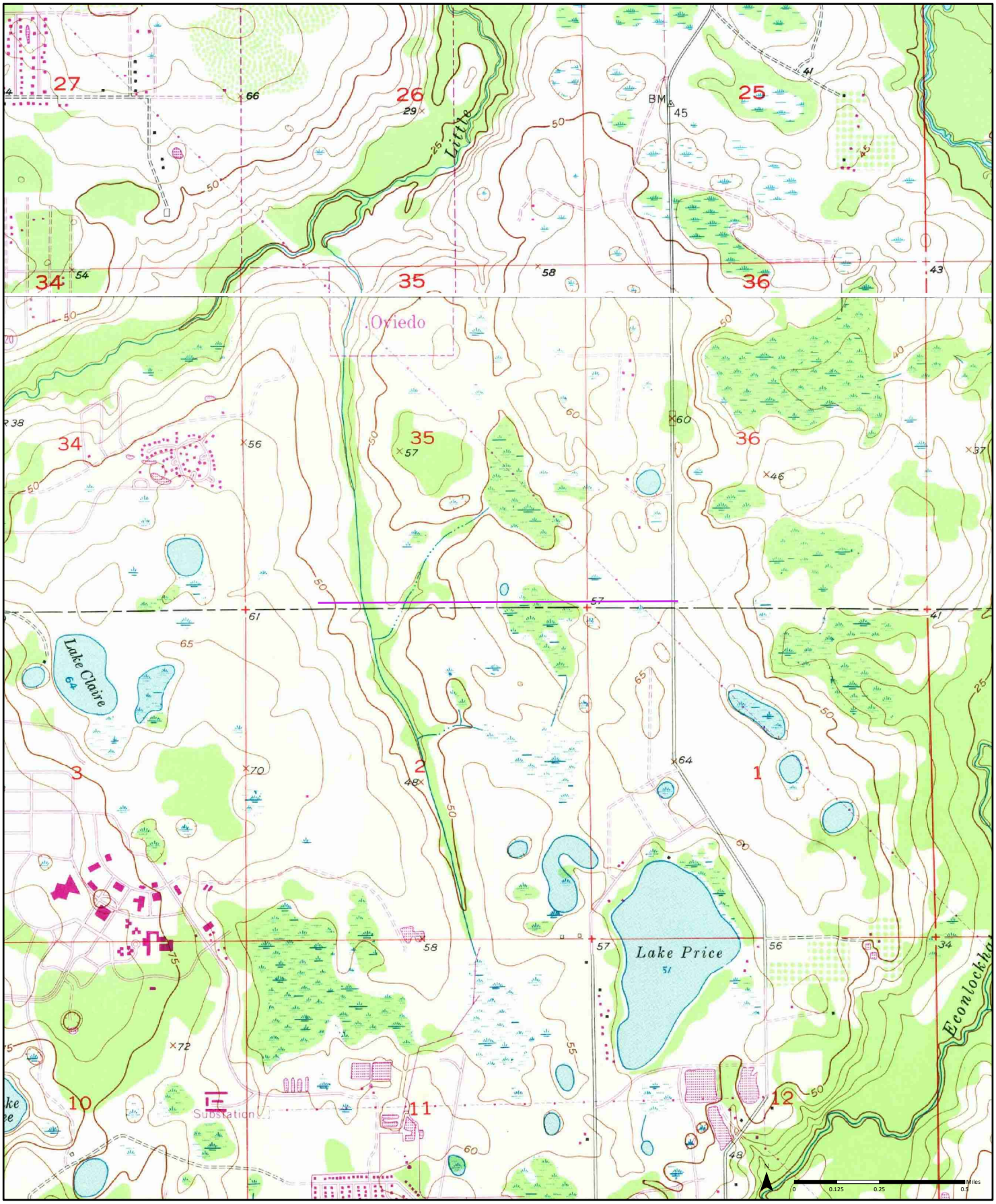


1984 (1)
Aerial Photo Year: 1977
Photo Revision Year: 1980

Quadrangle(s): Oviedo, FL(1)

Order No. 22012500722

Source: USGS 7.5 Minute Topographic Map



1980

(1) *Aerial Photo Year: 1977*
Photo Revision Year: 1980

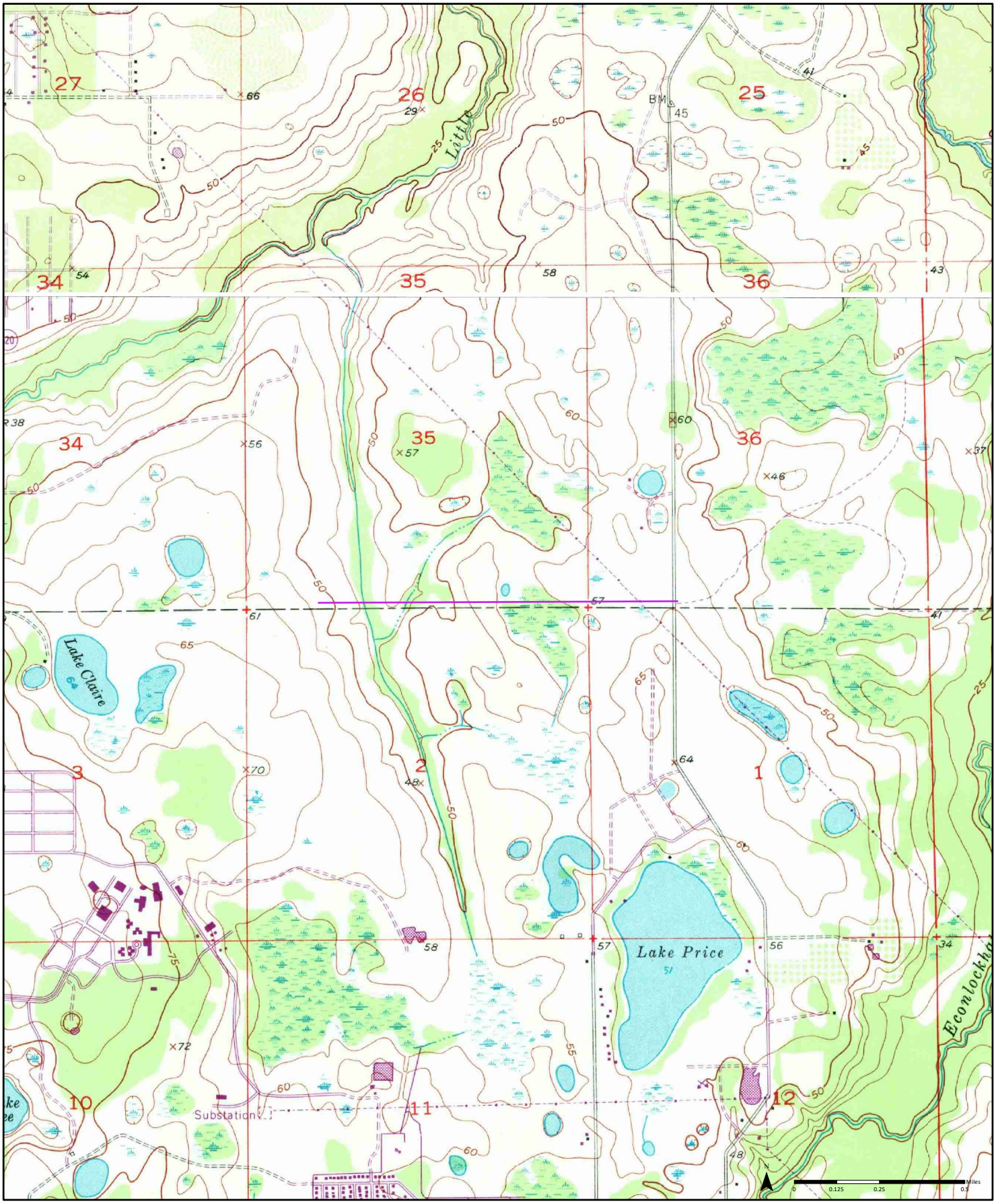
(2) *Aerial Photo Year: 1977*
Photo Revision Year: 1980

Quadrangle(s): Oviedo, FL(1); Oviedo SW, FL(2)

Order No. 22012500722

Source: USGS 7.5 Minute Topographic Map

ERIS



1970

(1) *Aerial Photo Year: 1970*
Photo Revision Year: 1970

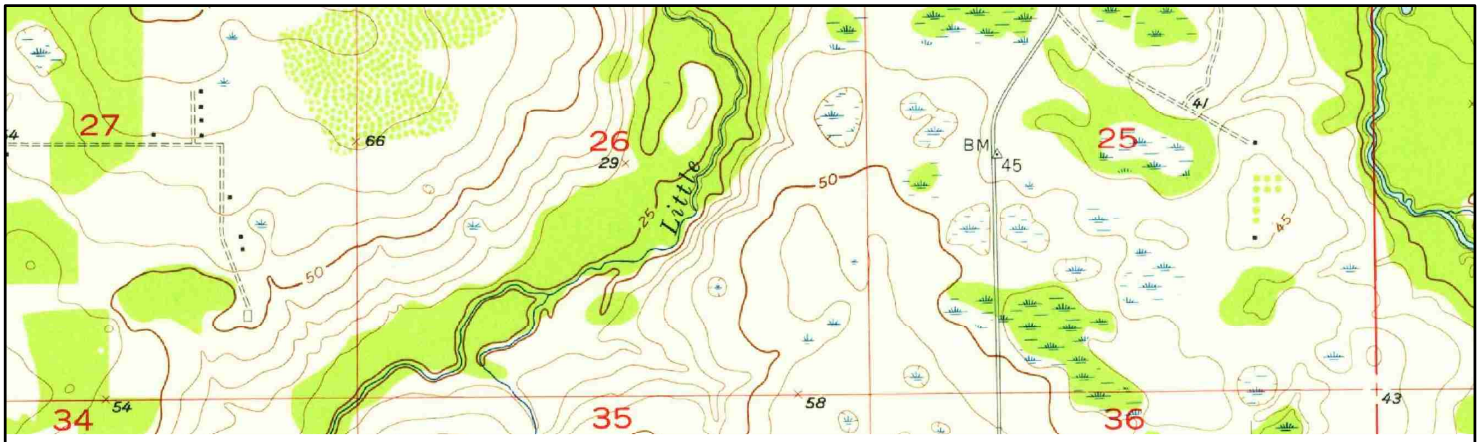
(2) *Aerial Photo Year: 1970*
Photo Revision Year: 1970

Quadrangle(s): Oviedo, FL(1); Oviedo SW, FL(2)

Order No. 22012500722

Source: USGS 7.5 Minute Topographic Map

ERIS



N

0 0.125 0.25 0.5 Miles

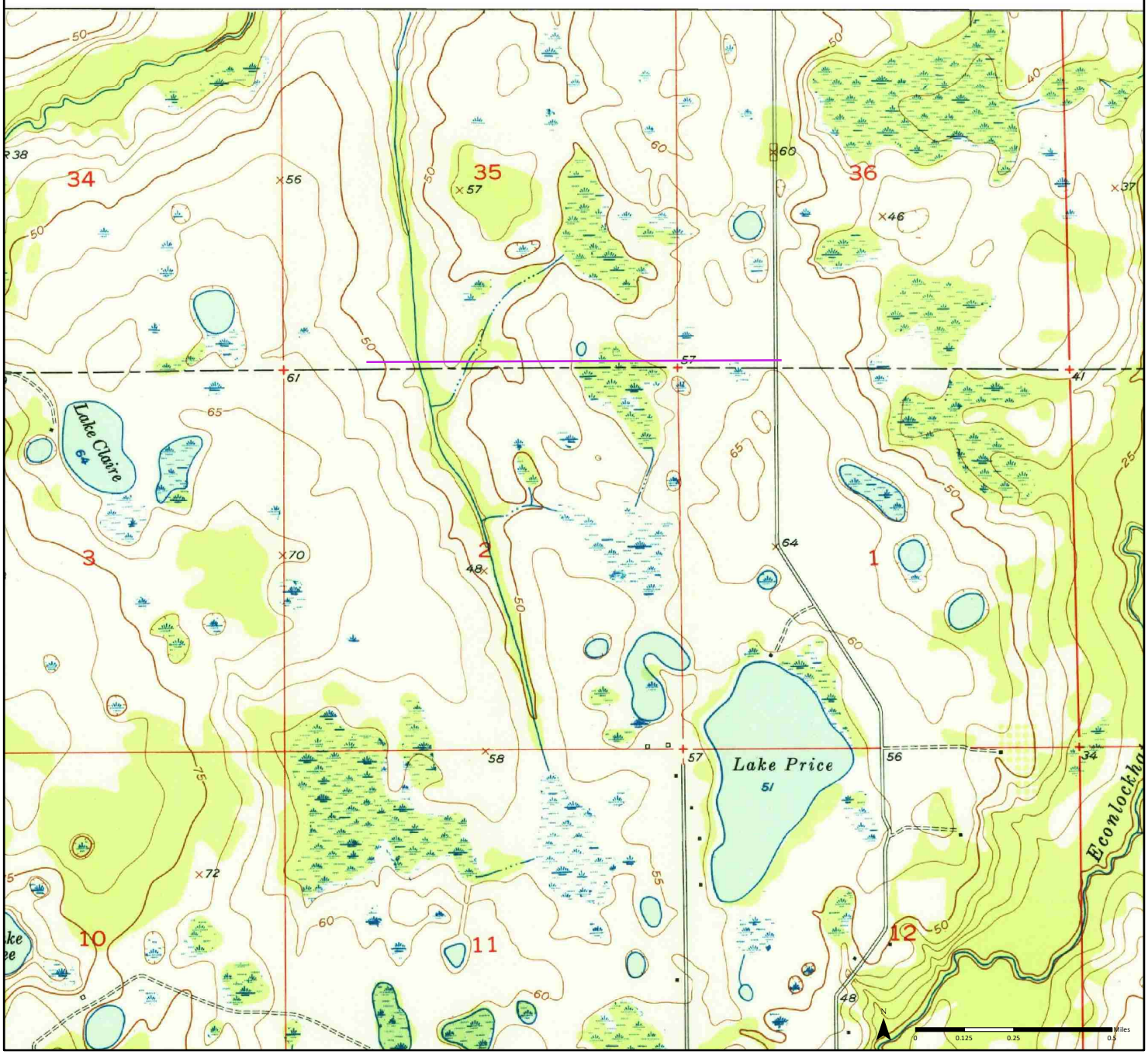
1956 (1)
Aerial Photo Year: 1952

Quadrangle(s): Oviedo, FL(1)

Order No. 22012500722

Source: USGS 7.5 Minute Topographic Map

ERIS



1953 (1) *Aerial Photo Year: 1951*

Quadrangle(s): Oviedo SW, FL(1)

Order No. 22012500722

Source: USGS 7.5 Minute Topographic Map

APPENDIX D

ERIS City Directory

CITY DIRECTORY

Project Property:	*McCulloch Road Roadway Conceptual Analysis (RCA)* *McCulloch Road* *Orlando, FL*
Project No:	*PR.GEO-RD21007*
Requested By:	*Nadic Engineering Services, Inc.*
Order No:	*22012500722*
Date Completed:	*January 28, 2022*

Environmental Risk Information Services
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January 28, 2022
RE: CITY DIRECTORY RESEARCH
McCulloch Road Roadway Conceptual Analysis (RCA)
McCulloch Road Orlando, FL

Thank you for contacting ERIS for an City Directory Search for the site described above. Our staff has conducted a reverse listing City Directory search to determine prior occupants of the subject site and adjacent properties. We have provided the nearest addresses(s) when adjacent addresses are not listed. If we have searched a range of addresses, all addresses in that range found in the Directory are included.

Note: Reverse Listing Directories generally are focused on more highly developed areas. Newly developed areas may be covered in the more recent years, but the older directories will tend to cover only the "central" parts of the city. To complete the search, we have either utilized the ACPL, Library of Congress, State Archives, and/or a regional library or history center as well as multiple digitized directories. These do not claim to be a complete collection of all reverse listing city directories produced.

ERIS has made every effort to provide accurate and complete information but shall not be held liable for missing, incomplete or inaccurate information. To complete this search we used the general range(s) below to search for relevant findings. If you believe there are additional addresses or streets that require searching please contact us at 866-517-5204.

Search Criteria:
All of Orion Blvd
4900-5100 of Tanner Rd

Search Results Summary

Date	Source	Comment
2020	DIGITAL BUSINESS DIRECTORY	
2016	DIGITAL BUSINESS DIRECTORY	
2012	DIGITAL BUSINESS DIRECTORY	
2008	DIGITAL BUSINESS DIRECTORY	
2003	DIGITAL BUSINESS DIRECTORY	
2001	CITY PUBLISHING CO	
1996	CITY PUBLISHING CO	
1990	CITY PUBLISHING CO	
1985	POLKS	
1980	POLKS	
1975	POLKS	
1970	POLKS	
1965	POLKS	
1959	POLKS	
1955	POLKS	
1949	POLKS	
1945	POLKS	
1940	POLKS	
1935	POLKS	
1930	MILLERS	
1925	FLORIDA PIEDMONT DIRECTORY CO	

2020 ORION BLVD
SOURCE: DIGITAL BUSINESS DIRECTORY

NO LISTING FOUND FOR THIS YEAR...

2020 TANNER RD
SOURCE: DIGITAL BUSINESS DIRECTORY

1842	**CNI ELECTRIC**...*Electric Contractors*
1842	**ELLIOTT CO**...*Real Estate*
2201	**BACK TO LIFE TAXIDERMY STUDIO**...*Taxidermists*
2416	**SIEFFERT'S NURSERY**...*Nurserymen*
2512	**CHOICE GUTTERS**...*Other Metal Container Manufacturing*
2536	**ROGER'S RENOVATIONS INC**...*General Contractors*
2606	**PRECIOUS PETS**...*Pet Boarding Sitting & Kennels*
3112	**HUGHES CONCRETE INC**...*Concrete Contractors*
3400	**LARRY E SMEDLEY NATL VIETNAM**...*Museums*
3400	**LARRY E SMEDLEY NATL VIETNAM**...*Museums*
3971	**EAST LAKE ELEMENTARY SCHOOLS**...*Schoolsuniversities & Colleges Academic*
3971	**EAST LAKE ELEMENTARY SCHOOLS**...*Schools*
12768	**COASTAL CONSTRUCTION**...*Handyman Services*

2016 ORION BLVD

SOURCE: DIGITAL BUSINESS DIRECTORY

NO LISTING FOUND FOR THIS YEAR...

2016 TANNER RD

SOURCE: DIGITAL BUSINESS DIRECTORY

1642	**ANTHONY M VANSLYKE HAULING**...*Trucking-contract Hauling*
1842	**SKYWARD TAX N ACCOUNING SVC**...*Tax Return Preparation & Filing*
1842	**SKYWARD TAX N ACCOUNING SVC**...*Accountants*
2201	**BACK TO LIFE TAXIDERMY STUDIO**...*Taxidermists*
2416	**SIEFFERT'S NURSERY**...*Nurserymen*
2512	**CHOICE GUTTERS**...*Other Metal Container Manufacturing*
2606	**PRECIOUS PETS**...*Pet Boarding Sitting & Kennels*
2968	**MINDY Z COLTON DESIGN**...*Artists-commercial*
3301	**BEST BUILDING REPAIR**...*Home Improvements*
3971	**EAST LAKE ELEMENTARY SCHOOLS**...*Schools*
4999	**FIFTH THIRD BANK**...*Banks*
4999	**FIFTH THIRD BANK**...*Automated Teller Machines*
4999	**FIFTH THIRD BANK ATM**...*Automated Teller Machines*
12768	**COASTAL CONSTRUCTION**...*Construction Consultants*
12768	**COASTAL CONSTRUCTION**...*Handyman Services*

2012 ORION BLVD
SOURCE: DIGITAL BUSINESS DIRECTORY

NO LISTING FOUND FOR THIS YEAR...

2012 TANNER RD
SOURCE: DIGITAL BUSINESS DIRECTORY

1505	**STRAIGHT CUT LAWNS**...*Lawn & Garden Svs*
1505	**STRAIGHT CUT LAWNS**...*Landscaping Svcs*
1505	**STRAIGHT CUT LAWNS**...*Lawn/garden Services*
2162	**RND TRACTOR SVC**...*Land Clearing & Leveling*
2162	**RND TRACTOR SVC**...*Earthmoving Contractr*
2416	**SIEFFERT'S NURSERY**...*Nurserymen*
2416	**SIEFFERTS NURSERY**...*Flowers,nursery Stock*
2416	**SIEFFERTS NURSERY**...*Ret Nursery/garden Supplies*
2416	**SIEFFERTS NURSERY**...*Nurseries-plants Trees & Etc-wholesale*
2416	**SIEFFERTS NURSERY**...*Nursery, Garden, & Farm Supply Stores*
2504	**RING POWER DEVELOPMENT**...
2606	**PRECIOUS PETS**...*Pet Boarding Sitting & Kennels*
2606	**PRECIOUS PETS**...*Support Activities For Animal Production*
2932	**JOE CALLEJA**...*Heavy Construction*
3206	**CARAWAY CONCRETE PUMPING INC**...*Concrete Contractors*
3213	**AMERICAN CARPET RESTORATIONS**...*Ret Floor Covering*
3251	**ALL AROUND FENCE & GATE**...*Bldg Materials Ext*
3301	**BEST BUILDING REPAIR**...*Home Improvements*
3400	**VIETNAM VETERANS OF CENTRAL FL**...*Vet/mil Org*
3851	**UP A TREE INTERIORSCAPING**...*Plants-interior Design & Maintenance*
3851	**UP A TREE INTERIORSCAPING**...*Ornmntl Nurs Prdcts*
3851	**UP A TREE INTERIORSCAPING**...*Business Svs Nec*
3851	**UP A TREE INTERIORSCAPING**...*Interior Design Svcs*
3971	**EAST LAKE ELEMENTARY SCHOOLS**...*Schools*
3971	**EAST LAKE ELEMENTARY SCHOOL**...*Element, Secon Schl*
3971	**EAST LAKE ELEMENTARY SCHOOLS**...*Elementary & Secondary Schools*
4000	**VISTA NATIONAL MANAGEMENT INC**...*Real Estate Management*
4000	**VISTA NATIONAL MANAGEMENT INC**...*Real Estate Management*
4000	**VISTA NATIONAL MANAGEMENT INC**...*Real Estate Mgmt*
4000	**VISTA NATIONAL MANAGEMENT INC**...*Offices Of Real Estate Agents & Brokers*
4999	**FIFTH THIRD BANK**...*Banks*
4999	**FIFTH THIRD BANK**...*Commercial Banking*
4999	**FIFTH THIRD BANK**...*National Coml Banks*

2008
SOURCE: DIGITAL BUSINESS DIRECTORY

ORION BLVD

NO LISTING FOUND FOR THIS YEAR...

2008
SOURCE: DIGITAL BUSINESS DIRECTORY

TANNER RD

1505 **STRAIGHT CUT LAWNS**...*Lawn & Garden Svs*
1505 **STRAIGHT CUT LAWNS**...*Lawn/garden Services*
2162 **RND TRACTOR SVC**...*Land Clearing & Leveling*
2162 **RND TRACTOR SVC**...*Earthmoving Contractr*
2416 **SIEFFERTS NURSERY**...*Nurseries-plants Trees & Etc-wholesale*
2416 **SIEFFERTS NURSERY**...*Flowers,nursery Stock*
2416 **SIEFFERTS NURSERY**...*Ret Nursery/garden Supplies*
2802 **DEL SOL FUNDING**...*Financing*
2932 **JOE CALLEJA**...*Heavy Construction*
3206 **CARAWAY CONCRETE PUMPING INC**...*Concrete Contractors*
3251 **ALL AROUND FENCE & GATE**...*Bldg Materials Ext*
3400 **VIETNAM VETERANS OF CENTRAL FL**...*Veterans` & Military Organizations*
3400 **VIETNAM VETERANS OF CENTRAL FL**...*Vet/mil Org*
3851 **UP A TREE INTERIORSCAPING**...*Ornmntl Nurs Prdcts*
3851 **UP A TREE INTERIORSCAPING**...*Business Svs Nec*
3965 **PPI CONSTRUCTION MANAGEMENT**...*General Contractors*
3971 **EAST LAKE ELEMENTARY SCHOOL**...*Element, Secon Schl*
4000 **VISTA NATIONAL MANAGEMENT INC**...*Real Estate Management*
4000 **VISTA NATIONAL MANAGEMENT INC**...*Real Estate Mgmt*
4999 **FIFTH THIRD BANK**...*National Coml Banks*

2003
SOURCE: DIGITAL BUSINESS DIRECTORY

ORION BLVD

NO LISTING FOUND FOR THIS YEAR...

2003
SOURCE: DIGITAL BUSINESS DIRECTORY

TANNER RD

2054 **LEN JACK PEI CHEI JUICES**...
2416 **SIEFFERT'S NURSERY**...
2504 **KELLEY RICHARD**...
2504 **KELLEY RICHARD PROCESS SERVER**...
3400 **VIETNAM VETERANS OF CENTRAL FL**...*Fraternal Associations*
3851 **UP A TREE INTERIORSCAPING**...
3940 **MARTIN RISK CONTROL SVC**...*Industrial And Labor Consulting Services*
4000 **VISTA NATIONAL MANAGEMENT INC**...

2001
SOURCE: CITY PUBLISHING CO

ORION BLVD

STREET NOT LISTED

2001
SOURCE: CITY PUBLISHING CO

TANNER RD

STREET NOT LISTED

1996
SOURCE: CITY PUBLISHING CO

ORION BLVD

STREET NOT LISTED

1996
SOURCE: CITY PUBLISHING CO

TANNER RD

STREET NOT LISTED

1990
SOURCE: CITY PUBLISHING CO

ORION BLVD

STREET NOT LISTED

1990
SOURCE: CITY PUBLISHING CO

TANNER RD

STREET NOT LISTED

1985
SOURCE: POLKS

ORION BLVD

STREET NOT LISTED

1985
SOURCE: POLKS

TANNER RD

STREET NOT LISTED

1980
SOURCE: POLKS

ORION BLVD

STREET NOT LISTED

1980
SOURCE: POLKS

TANNER RD

STREET NOT LISTED

1975
SOURCE: POLKS

ORION BLVD

STREET NOT LISTED

1975
SOURCE: POLKS

TANNER RD

STREET NOT LISTED

1970
SOURCE: POLKS

ORION BLVD

STREET NOT LISTED

1970
SOURCE: POLKS

TANNER RD

STREET NOT LISTED

1965
SOURCE: POLKS

ORION BLVD

STREET NOT LISTED

1965
SOURCE: POLKS

TANNER RD

STREET NOT LISTED

1959
SOURCE: POLKS

ORION BLVD

STREET NOT LISTED

1959
SOURCE: POLKS

TANNER RD

STREET NOT LISTED

1955
SOURCE: POLKS

ORION BLVD

STREET NOT LISTED

1955
SOURCE: POLKS

TANNER RD

STREET NOT LISTED

1949
SOURCE: POLKS

ORION BLVD

STREET NOT LISTED

1949
SOURCE: POLKS

TANNER RD

STREET NOT LISTED

1945
SOURCE: POLKS

ORION BLVD

STREET NOT LISTED

1945
SOURCE: POLKS

TANNER RD

STREET NOT LISTED

1940
SOURCE: POLKS

ORION BLVD

STREET NOT LISTED

1940
SOURCE: POLKS

TANNER RD

STREET NOT LISTED

1935
SOURCE: POLKS

ORION BLVD

STREET NOT LISTED

1935
SOURCE: POLKS

TANNER RD

STREET NOT LISTED

1930
SOURCE: MILLERS

ORION BLVD

STREET NOT LISTED

1930
SOURCE: MILLERS

TANNER RD

STREET NOT LISTED

1925
SOURCE: FLORIDA PIEDMONT DIRECTORY CO

ORION BLVD

STREET NOT LISTED

1925
SOURCE: FLORIDA PIEDMONT DIRECTORY CO

TANNER RD

STREET NOT LISTED

--- END REPORT ---

APPENDIX E

ERIS Fire Insurance Map

FIRE INSURANCE MAPS

Project Property:	McCulloch Road Roadway Conceptual Analysis (RCA) McCulloch Road Oviedo FL
Project No:	PR.GEO-RD21007
Requested By:	Nadic Engineering Services, Inc.
Order No:	22012500722
Date Completed:	January 25, 2022

Please note that no information was found for your site or adjacent properties.

Environmental Risk Information Services
A division of Glacier Media Inc.
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APPENDIX F

Reconnaissance Photograph

CSER Reconnaissance Photographs
McCulloch Road Roadway Conceptual Analysis Study (from Orion Road to North Tanner Blvd.)

Photo: 1	Date: 02/01/2022	Description: Orange/Seminole Fire Rescue Station # 65 at 4999 B Orion Blvd., the intersection of McCulloch Road and Orion Blvd.



Photo: 2	Date: 02/01/2022	Description: Orange/Seminole Fire Rescue Station # 65 at Southeast Quadrangle of McCulloch Road and Orion Blvd Intersection



Photo: 3	Date: 02/01/2022	Description: Gas Depot for Orange/Seminole Fire Rescue Station # 65

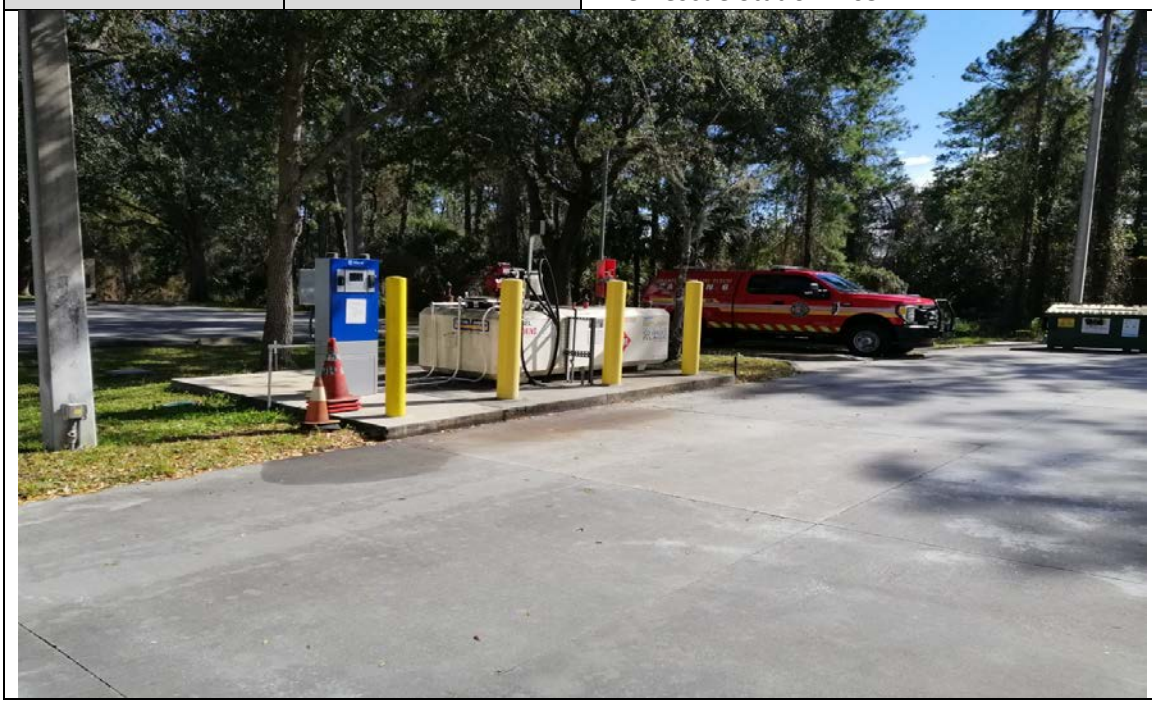


Photo: 4	Date: 02/01/2022	Description: Orange/Seminole Fire Rescue Station # 65 Training Building



Photo: 5	Date: 02/01/2022	Description: 7-Eleven Store #37926 at the northeast quadrangle of McCulloch Road and Orion Road Intersection.



Photo: 6	Date: 02/01/2022	Description: Chervon Gas Station at the northeast quadrangle of McCulloch Road and Orion Road Intersection



Photo: 7	Date: 02/01/2022	Description: UCF Stadium south of Southwest Corner of McCulloch Road and Orion Blvd Intersection



Photo: 8	Date: 02/01/2022	Description: Undeveloped forested area near Wild Life Crossing along McCulloch Road. No apparent signs of contamination were visible.



Photo: 9	Date: 02/01/2022	Description: Undeveloped forested area near Wild Life Crossing along McCulloch Road. No apparent signs of contamination were visible



Photo: 10	Date: 02/01/2022	Description: Madison Park Subdivision along northside of McCulloch Road



Photo: 11	Date: 02/01/2022	Description: University Estates Subdivision along southside of McCulloch Road



Photo: 12	Date: 02/01/2022	Description: Econ Rive Family Dental at southeast corner of McCulloch Road and Tanner Road Intersection



Photo: 13	Date: 02/01/2022	Description: Retention Pond at southwest corner of McCulloch Road and Tanner Road Intersection



Photo: 14	Date: 02/01/2022	Description: Dollar Store at the northwest corner of McCulloch Road and Tanner Road Intersection



APPENDIX G

Sample Questionnaire Documents

NADIC
ENGINEERING

CONTAMINATION SCREENING QUESTIONNAIRE:

McCULLOCH ROAD RCA STUDY FROM NORTH ORION BOULEVARD TO NORTH TANNER ROAD

PROPERTY DESCRIPTION AND ANALYSIS:

_____

STREET ADDRESS OF SUBJECT PROPERTY

_____

CITY COUNTY STATE ZIP

_____

LEGAL DESCRIPTION

CURRENT USE OF PROPERTY:

RESIDENTIAL COMMERCIAL INDUSTRIAL UNDEVELOPED LAND AGRICULTURAL

OTHER (DESCRIBE):

NAME OF PARTY COMPLETING QUESTIONNAIRE:
COMPANY:
STREET ADDRESS, CITY, STATE, ZIP:
DAYTIME PHONE: ALTERNATIVE PHONE:
EMAIL ADDRESS / ALTERNATIVE CONTACT:

Orlando Office
601 N. Hart Boulevard
Orlando, Florida 32818
Phone: (407) 521-4771

Nadic
Email: nadic@nadicinc.com
Fax: (407) 521-4772

Miami Office
15291 NW 60th Avenue, Suite 106
Miami Lakes, Florida 33014
Phone: (305) 359-5740

McCulloch Road RCA Study – Contamination Screening Questionnaire
Nadic Project No. PR.GEO.RD21007.1

SUBJECT PROPERTY DESCRIPTION:

Total Size _____ Size of developed Areas _____
How is property zoned? _____ Is property vacant or improved? _____
Is property currently occupied? _____ How long under current ownership? _____

Current uses: 1. _____ Time _____
2. _____ Time _____
3. _____ Time _____
Past uses: 1. _____ Time _____
2. _____ Time _____
3. _____ Time _____

Structures on the property: 1. _____ Age _____
2. _____ Age _____
3. _____ Age _____

Can a property layout be faxed? _____

Ground cover:

Asphalt _____ Concrete _____
Grass_____ Dirt _____
Vegetation_____ Other ground cover_____

Land features:

Direction of slope_____
Approximate incline_____
Sensitive Lands / Wetlands_____ Size_____
Surface Water_____ Size_____

How is storm water handled? _____

Herbicide/Pesticide use (type, quantity, frequency) _____

Utilities:

septic or sewer_____
well or city water_____
electricity or gas_____

Are materials ever burned on the property? _____

Storage facilities_____
Hazardous materials storage_____
Waste materials_____

How long since excavation on the property?
By Whom? _____
Why? _____

Last time natural features manipulated
By Whom? _____
Why? _____

Previous ESA's (Environmental Site Assessment)
By Whom? _____
Why? _____

Previous remediation work
By Whom? _____
Why? _____

SURROUNDING PROPERTIES:

General description of area:
_____
Uses of surrounding properties:
_____
East _____ West_____
North _____ South _____

Proximity to:
gas station _____
manufacturing plants_____
waste treatment facility _____
water treatment facility _____

Is there any reason to suspect environmental contamination from adjoining properties?
_____
_____

QUESTIONNAIRE:

1a. Did you observe evidence or do you have any prior knowledge that the *subject property* is currently or has been previously used for an **industrial use**?

yes no unknown

1b. Did you observe evidence or do you have any prior knowledge that any *adjoining properties* is currently or has been previously used for an **industrial use**?

yes no unknown

2a. Did you observe evidence or do you have any knowledge that the *subject property* is currently or has previously been used for any of the following (circle all that apply):
• **gasoline station**
• **motor repair facility**
• **dry cleaners**
• **photo developing laboratory**
• **junkyard or landfill**
• **waste treatment, storage, disposal, processing or recycling facility**

yes no unknown

2b. Did you observe evidence or do you have any knowledge that any *adjoining property* is currently or has previously been used for any of the following (circle all that apply):
• **gasoline station**
• **motor repair facility**
• **dry cleaners**
• **photo developing laboratory**
• **junkyard or landfill**
• **waste treatment, storage, disposal, processing or recycling facility**

yes no unknown

3. Did you observe evidence or do you have any knowledge that there are currently or have been previously any damaged or discarded **automotive or industrial batteries, pesticides, paints, or other chemicals** in individual containers > 5 gallons (19 L) in volume or 50 gallons (190 L) in the aggregate, stored on or used at the *subject property*?

yes no unknown

4. Did you observe evidence or do you have any knowledge that there are currently or have been previously any **industrial drums** (typically 55 gal) or sacks of chemicals located on the *subject property*?

yes no unknown

5. Did you observe evidence or do you have any prior knowledge that **fill dirt** has been brought onto the *subject property* **that originated from a contaminated site or is of unknown origin**?

yes no unknown

6. Did you observe evidence or do you have any prior knowledge that there is currently or has been previously any **pits, ponds, or lagoons** located on the *subject property* in connection with waste treatment or waste disposal?

yes no unknown

7. Did you observe evidence or do you have any prior knowledge that there is currently or has been previously any **stained soil** on the *subject property*?

yes no unknown

8. Did you observe evidence or do you have any prior knowledge that there is currently or has been previously any **registered or unregistered storage tanks** (above or underground) located on the *subject property*?

yes no unknown

9. Did you observe evidence or do you have any prior knowledge that there is currently or has been previously any **vent pipes, fill pipes, or access ways** indicating a fill pipe protruding from the ground on the *subject property or adjacent to any structure* on the subject property?

yes no unknown

10. Is there currently evidence of **leaks, spill, or staining** by substances other than water, or **foul odors,** associated with flooring, drains, walls, ceilings, or exposed grounds on the *subject property*?

yes no unknown

11. If the *subject property* is served by a **private well or non-public water system**, is there evidence or do you have any knowledge that **contaminants** have been identified in the well or system, or that the well has been **designated as contaminated** by any government environmental / health agency?

yes no unknown

12. Do you have any knowledge of **environmental liens** or government notification relating to **past or recurrent violations of environmental laws** with respect to the *subject property*?

yes no unknown

13. Have you been informed of the current or past existence of **hazardous substances or petroleum products** with respect to the *subject property*?

yes no unknown

14. Do you have any knowledge of any **environmental site assessment** of the property or facility that indicated the presence of **hazardous substances or petroleum products on, or contamination** of, the *subject property*, or **recommended further assessment** of the *subject property*?

yes no unknown

15. Do you know of any past, threatened, or pending **lawsuits or administrative proceedings** concerning a release or threatened release of any hazardous substance or petroleum products involving the *subject property* by any owner or occupant of the property?

yes no unknown

16. Does the *subject property* **discharge waste water** (not including sanitary waste or storm water) onto or adjacent to the property and/or into a storm water system?

yes no unknown

17. Do you have any prior knowledge that any **hazardous substances or petroleum products, unidentified waste materials, tires,** automotive or industrial batteries, or any other waste materials have been dumped above grade, buried and/or burned on the *subject property*?

yes no unknown

18. Is there a transformer, capacitor, or any hydraulic equipment for which there are any records indicating the **presence of PCB's**?

yes no unknown

Please provide details relating to any questions answered "yes" in the space provided. Attach additional sheets or informative documents if necessary.

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Additional comments.

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_____
_____

The undersigned represents that to the best of their knowledge the above statements and facts are true and correct and the best of his/her knowledge no material facts have been suppressed or misstated.

_____ _____ _____

Signature of party completing questionnaire Name of party completing questionnaire Date

APPENDIX H

ERIS Database Report

DATABASE REPORT

Project Property:	*McCulloch Road Roadway Conceptual Analysis (RCA)* *McCulloch Road* *Oviedo FL*
Project No:	*PR.GEO-RD21007*
Report Type:	*Database Report*
Order No:	*22012500722*
Requested by:	*Nadic Engineering Services, Inc.*
Date Completed:	*January 27, 2022*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

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Executive Summary

Property Information:

Project Property:		*McCulloch Road Roadway Conceptual Analysis (RCA)* *McCulloch Road Oviedo FL*
Project No:		*PR.GEO-RD21007*
Coordinates:		
	Latitude:	*28.61202323*
	Longitude:	*-81.18324115*
	UTM Northing:	*3,165,016.07*
	UTM Easting:	*482,086.07*
	UTM Zone:	*UTM Zone 17R*
Elevation:		*54 FT*

Order Information:

Order No:	*22012500722*
Date Requested:	*January 25, 2022*
Requested by:	*Nadic Engineering Services, Inc.*
Report Type:	*Database Report*

Historicals/Products:

Aerial Photographs	*Historical Aerials (with Project Boundaries)*
City Directory Search	*CD - 2 Street Search*
ERIS Xplorer	*ERIS Xplorer*
Excel Add-On	*Excel Add-On*
Fire Insurance Maps	*US Fire Insurance Maps*
Physical Setting Report (PSR)	*Physical Setting Report (PSR)*
Topographic Map	*Topographic Maps*

Executive Summary: Report Summary

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
Standard Environmental Records								
Federal								
DOE FUSRAP	Y	1	0	0	0	0	0	0
NPL	Y	1	0	0	0	0	0	0
PROPOSED NPL	Y	1	0	0	0	0	0	0
DELETED NPL	Y	0.5	0	0	0	0	-	0
SEMS	Y	0.5	0	0	0	0	-	0
ODI	Y	0.5	0	0	0	0	-	0
SEMS ARCHIVE	Y	0.5	0	0	0	0	-	0
CERCLIS	Y	0.5	0	0	0	0	-	0
IODI	Y	0.5	0	0	0	0	-	0
CERCLIS NFRAP	Y	0.5	0	0	0	0	-	0
CERCLIS LIENS	Y	PO	0	-	-	-	-	0
RCRA CORRACTS	Y	1	0	0	0	0	0	0
RCRA TSD	Y	0.5	0	0	0	0	-	0
RCRA LQG	Y	0.25	0	0	0	-	-	0
RCRA SQG	Y	0.25	0	0	0	-	-	0
RCRA VSQG	Y	0.25	0	0	0	-	-	0
RCRA NON GEN	Y	0.25	0	0	0	-	-	0
RCRA CONTROLS	Y	0.5	0	0	0	0	-	0
FED ENG	Y	0.5	0	0	0	0	-	0
FED INST	Y	0.5	0	0	0	0	-	0
LUCIS	Y	0.5	0	0	0	0	-	0
ERNS 1982 TO 1986	Y	PO	0	-	-	-	-	0
ERNS 1987 TO 1989	Y	PO	0	-	-	-	-	0
ERNS	Y	PO	0	-	-	-	-	0
FED BROWNFIELDS	Y	0.5	0	0	0	0	-	0
FEMA UST	Y	0.25	0	0	0	-	-	0
FRP	Y	0.25	0	0	0	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
HIST GAS STATIONS	Y	0.25	0	0	0	-	-	0
REFN	Y	0.25	0	0	0	-	-	0
BULK TERMINAL	Y	0.25	0	0	0	-	-	0
SEMS LIEN	Y	PO	0	-	-	-	-	0
SUPERFUND ROD	Y	1	0	0	0	0	0	0
State								
SHWS	Y	1	0	0	0	0	0	0
DELISTED SHWS	Y	1	0	0	0	0	0	0
CLEANUP DEP	Y	1	0	0	0	0	**3**	**3**
WCRPS	Y	1	0	0	0	0	**2**	**2**
DELISTED WCP	Y	1	0	0	0	0	**1**	**1**
SWF/LF	Y	0.5	0	0	0	0	-	0
LST	Y	0.5	0	**1**	0	0	-	**1**
DELISTED LST	Y	0.5	0	0	0	0	-	0
UST	Y	0.25	0	**1**	0	-	-	**1**
AST	Y	0.25	0	**1**	0	-	-	**1**
TANK	Y	0.25	0	0	0	-	-	0
DEL UST AST TANK	Y	0.25	0	0	0	-	-	0
DEL STORAGE TANK	Y	0.25	0	0	0	-	-	0
FF TANKS	Y	0.25	0	0	0	-	-	0
STCS	Y	0.5	0	0	0	0	-	0
INST	Y	0.5	0	0	0	0	-	0
ENG	Y	0.5	0	0	0	0	-	0
VCP	Y	0.5	0	0	0	0	-	0
BROWNFIELDS	Y	0.5	0	0	0	0	-	0
BROWNFIELD AREA	Y	0.5	0	0	0	0	-	0
Tribal								
INDIAN LUST	Y	0.5	0	0	0	0	-	0
INDIAN UST	Y	0.25	0	0	0	-	-	0
DELISTED ILST	Y	0.5	0	0	0	0	-	0
DELISTED IUST	Y	0.25	0	0	0	-	-	0

County ***No County databases were selected to be included in the search.***

Additional Environmental Records

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
Federal								
FINDS/FRS	Y	PO	0	**4**	-	-	-	**4**
TRIS	Y	PO	0	-	-	-	-	0
PFAS TRI	Y	0.5	0	0	0	0	-	0
PFAS NPL	Y	0.5	0	0	0	0	-	0
PFAS WATER	Y	0.5	0	0	0	0	-	0
PFAS SSEHRI	Y	0.5	0	0	0	0	-	0
HMIRS	Y	0.125	0	0	-	-	-	0
NCDL	Y	0.125	0	0	-	-	-	0
TSCA	Y	0.125	0	0	-	-	-	0
HIST TSCA	Y	0.125	0	0	-	-	-	0
FTTS ADMIN	Y	PO	0	-	-	-	-	0
FTTS INSP	Y	PO	0	-	-	-	-	0
PRP	Y	PO	0	-	-	-	-	0
SCRD DRYCLEANER	Y	0.5	0	0	0	0	-	0
ICIS	Y	PO	0	-	-	-	-	0
FED DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DELISTED FED DRY	Y	0.25	0	0	0	-	-	0
FUDS	Y	1	0	0	0	0	0	0
FORMER NIKE	Y	1	0	0	0	0	0	0
PIPELINE INCIDENT	Y	PO	0	-	-	-	-	0
MLTS	Y	PO	0	-	-	-	-	0
HIST MLTS	Y	PO	0	-	-	-	-	0
MINES	Y	0.25	0	0	0	-	-	0
SMCRA	Y	1	0	0	0	0	0	0
MRDS	Y	1	0	0	0	0	0	0
URANIUM	Y	1	0	0	0	0	0	0
ALT FUELS	Y	0.25	0	0	0	-	-	0
SSTS	Y	0.25	0	0	0	-	-	0
PCB	Y	0.5	0	0	0	0	-	0
State								
PRIORITYCLEAN	Y	0.5	0	0	0	0	-	0
DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DELISTED DRYCLEANERS	Y	0.25	0	0	0	-	-	0
HISTORICAL DRYC	Y	0.25	0	0	0	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
SPILLS	Y	0.125	0	0	-	-	-	0
DWM CONTAM	Y	0.5	0	0	0	0	-	0
DEL CONTAM SITE	Y	0.5	0	0	0	0	-	0
PFAS AFFF	Y	0.5	0	0	0	0	-	0
PFAS	Y	0.5	0	0	0	0	-	0
UIC	Y	PO	0	-	-	-	-	0
WELL SURVEILLANCE	Y	0.25	0	**1**	0	-	-	**1**
CDV SOUTHEAST	Y	0.5	0	0	0	0	-	0
TIER 2	Y	0.125	0	**1**	-	-	-	**1**
DELISTED COUNTY	Y	0.25	0	0	0	-	-	0

Tribal ***No Tribal additional environmental record sources available for this State.***

County ***No County additional environmental databases were selected to be included in the search.***

Total:	0	**9**	0	0	**6**	**15**

**** PO – Property Only***
**** 'Property and adjoining properties' database search radii are set at 0.25 miles.***

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number

No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
1	UST	7-ELEVEN STORE #37926	1640 MCCULLOCH RD OVIEDO FL 32765	W	0.00 / 17.47	-4	19
			***Facility ID	Facility Status:*** 9805292 | OPEN ***Tank Status	Status Date:*** U - IN SERVICE | 01-OCT-2018, U - IN SERVICE | 01-OCT-2018			
1	LST	7-ELEVEN STORE #37926	1640 MCCULLOCH RD OVIEDO FL 32765	W	0.00 / 17.47	-4	21
			***Facility ID	Facility Status:*** 9805292 | OPEN ***Cleanup Required:*** R - CLEANUP REQUIRED			
2	WELL SURVEILLANCE	CHEVRON	1640 McCullough Oviedo FL 32795	W	0.05 / 264.46	-5	23
3	AST	ORANGE CNTY FIRE & RESCUE #65	4999 B ORION BLVD ORLANDO FL 32826	W	0.02 / 129.14	-3	23
			***Facility ID	Facility Status:*** 9802715 | OPEN ***Tank Status	Status Date:*** U - IN SERVICE | 01-OCT-1999			
4	FINDS/FRS	MCCULLOCH - LOCKWOOD RETAIL	CORNER OF MCCULLOCH & LOCKWOOD BLVD OVIEDO FL 32765 ***Registry ID:*** 110035453960	W	0.01 / 37.78	-2	24
5	TIER 2	UCF North Substation	6900 North Orion Road Orlando FL 32826	W	0.02 / 126.34	-1	24
6	FINDS/FRS	FIFTH - THIRD BANK - MCCULLOCH	SE CORNER OF TANNER & MCCULLOC ORLANDO FL 32801 ***Registry ID:*** 110024384101	E	0.00 / 25.90	5	26
7	FINDS/FRS	MCCULLOCH RD & LOCKWOOD BLVD INTERSECTION IMPROVEMENTS	UNKNOWN OVIEDO FL 32762 ***Registry ID:*** 110055364323	W	0.01 / 76.05	-1	26
8	FINDS/FRS	COMMUNICATION LINE INSTALL-AT&T PROJECT #A01AXK6	UNKNOWN OVIEDO FL 32762 ***Registry ID:*** 110070393499	W	0.02 / 100.81	-1	27
9	WCRPS	UCF BIOLOGY BUILDING 20 HYDRALIC DISCHARGE ELEVATOR	UCF CAMPUS ORLANDO FL	SW	0.91 / 4,802.23	17	28
9	CLEANUP DEP	UCF BIOLOGY BUILDING 20 HYDRALIC DISCHARGE ELEVATOR	UCF CAMPUS ORLANDO FL -	SW	0.91 / 4,802.23	17	28

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
10	CLEANUP DEP	CHRISTENSEN DUMP	2247 RED EMBER RD OVIEDO FL 32765-	NE	0.95 / 5,031.04	-13	29
11	WCRPS	UCF BIOLOGY BUILDING 20 - SANITARY SEWER DISCHARGE	LIBRA DRIVE ORLANDO FL	SW	0.92 / 4,862.56	17	29
11	DELISTED WCP	UCF BIOLOGY BUILDING 20 - SANITARY SEWER DISCHARGE	LIBRA DRIVE ORLANDO FL	SW	0.92 / 4,862.56	17	29
11	CLEANUP DEP	UCF BIOLOGY BUILDING 20 - SANITARY SEWER DISCHARGE	LIBRA DRIVE ORLANDO FL -	SW	0.92 / 4,862.56	17	30

Executive Summary: Summary by Data Source

Standard

State

CLEANUP DEP - Florida Department of Environmental Protection Cleanup Sites

A search of the CLEANUP DEP database, dated Oct 20, 2021 has found that there are 3 CLEANUP DEP site(s) within approximately 1.00 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
UCF BIOLOGY BUILDING 20 HYDRALIC DISCHARGE ELEVATOR	UCF CAMPUS ORLANDO FL -	SW	0.91 / 4,802.23	9
UCF BIOLOGY BUILDING 20 - SANITARY SEWER DISCHARGE	LIBRA DRIVE ORLANDO FL -	SW	0.92 / 4,862.56	11

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
CHRISTENSEN DUMP	2247 RED EMBER RD OVIEDO FL 32765-	NE	0.95 / 5,031.04	10

WCRPS - Waste Cleanup Responsible Party Sites

A search of the WCRPS database, dated Apr 11, 2021 has found that there are 2 WCRPS site(s) within approximately 1.00 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
UCF BIOLOGY BUILDING 20 HYDRALIC DISCHARGE ELEVATOR	UCF CAMPUS ORLANDO FL	SW	0.91 / 4,802.23	9
UCF BIOLOGY BUILDING 20 - SANITARY SEWER DISCHARGE	LIBRA DRIVE ORLANDO FL	SW	0.92 / 4,862.56	11

DELISTED WCP - Delisted Waste Cleanup Sites

A search of the DELISTED WCP database, dated Oct 20, 2021 has found that there are 1 DELISTED WCP site(s) within approximately 1.00 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
UCF BIOLOGY BUILDING 20 - SANITARY SEWER DISCHARGE	LIBRA DRIVE ORLANDO FL	SW	0.92 / 4,862.56	11

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key

LST - Leaking Tanks

A search of the LST database, dated Aug 13, 2021 has found that there are 1 LST site(s) within approximately 0.50 miles of the project property.

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
7-ELEVEN STORE #37926	1640 MCCULLOCH RD OVIEDO FL 32765	W	0.00 / 17.47	1
	***Facility ID | Facility Status**: 9805292 | OPEN* ***Cleanup Required**: R - CLEANUP REQUIRED*			

UST - Underground Storage Tanks

A search of the UST database, dated Nov 4, 2021 has found that there are 1 UST site(s) within approximately 0.25 miles of the project property.

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
7-ELEVEN STORE #37926	1640 MCCULLOCH RD OVIEDO FL 32765	W	0.00 / 17.47	1
	***Facility ID | Facility Status**: 9805292 | OPEN* ***Tank Status | Status Date**: U - IN SERVICE | 01-OCT-2018, U - IN SERVICE | 01-OCT-2018*			

AST - Aboveground Storage Tanks

A search of the AST database, dated Nov 4, 2021 has found that there are 1 AST site(s) within approximately 0.25 miles of the project property.

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
ORANGE CNTY FIRE & RESCUE #65	4999 B ORION BLVD ORLANDO FL 32826	W	0.02 / 129.14	3
	***Facility ID | Facility Status**: 9802715 | OPEN* ***Tank Status | Status Date**: U - IN SERVICE | 01-OCT-1999*			

Non Standard

Federal

FINDS/FRS - Facility Registry Service/Facility Index

A search of the FINDS/FRS database, dated Nov 2, 2020 has found that there are 4 FINDS/FRS site(s) within approximately 0.02 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
FIFTH - THIRD BANK - MCCULLOCH	SE CORNER OF TANNER & MCCULLOC ORLANDO FL 32801 ***Registry ID**: 110024384101*	E	0.00 / 25.90	6

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
MCCULLOCH - LOCKWOOD RETAIL	CORNER OF MCCULLOCH & LOCKWOOD BLVD OVIEDO FL 32765 ***Registry ID**: 110035453960*	W	0.01 / 37.78	4
MCCULLOCH RD & LOCKWOOD BLVD INTERSECTION IMPROVEMENTS	UNKNOWN OVIEDO FL 32762 ***Registry ID**: 110055364323*	W	0.01 / 76.05	7
COMMUNICATION LINE INSTALL-AT&T PROJECT #A01AXK6	UNKNOWN OVIEDO FL 32762 ***Registry ID**: 110070393499*	W	0.02 / 100.81	8

State

WELL SURVEILLANCE - Well Surveillance Program Facilities

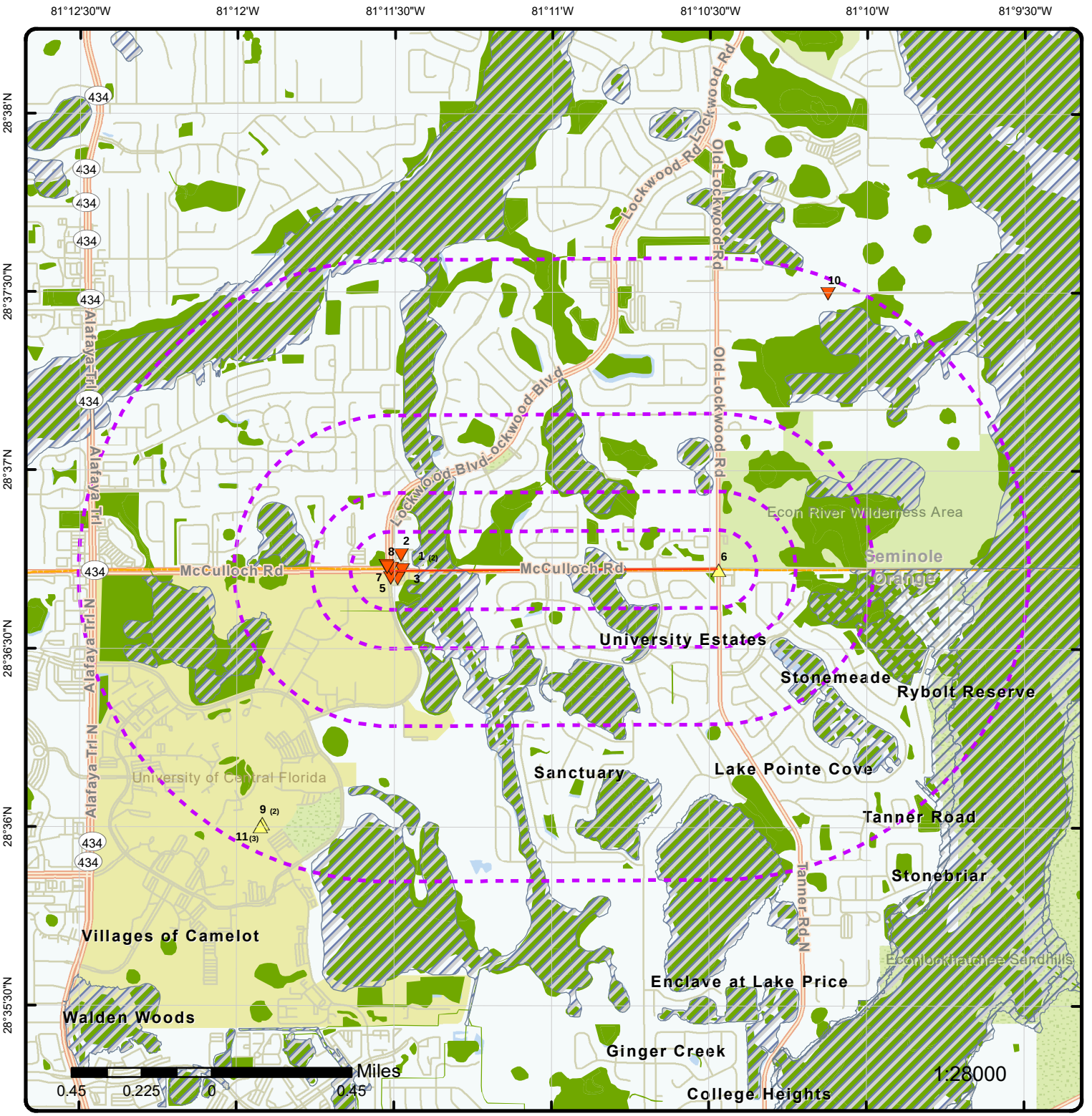
A search of the WELL SURVEILLANCE database, dated Oct 1, 2021 has found that there are 1 WELL SURVEILLANCE site(s) within approximately 0.25 miles of the project property.

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
CHEVRON	1640 McCullough Oviedo FL 32795	W	0.05 / 264.46	2

TIER 2 - Tier 2 Report

A search of the TIER 2 database, dated Jul 9, 2021 has found that there are 1 TIER 2 site(s) within approximately 0.12 miles of the project property.

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
UCF North Substation	6900 North Orion Road Orlando FL 32826	W	0.02 / 126.34	5



Map: 1.0 Mile Radius

Order Number: 22012500722

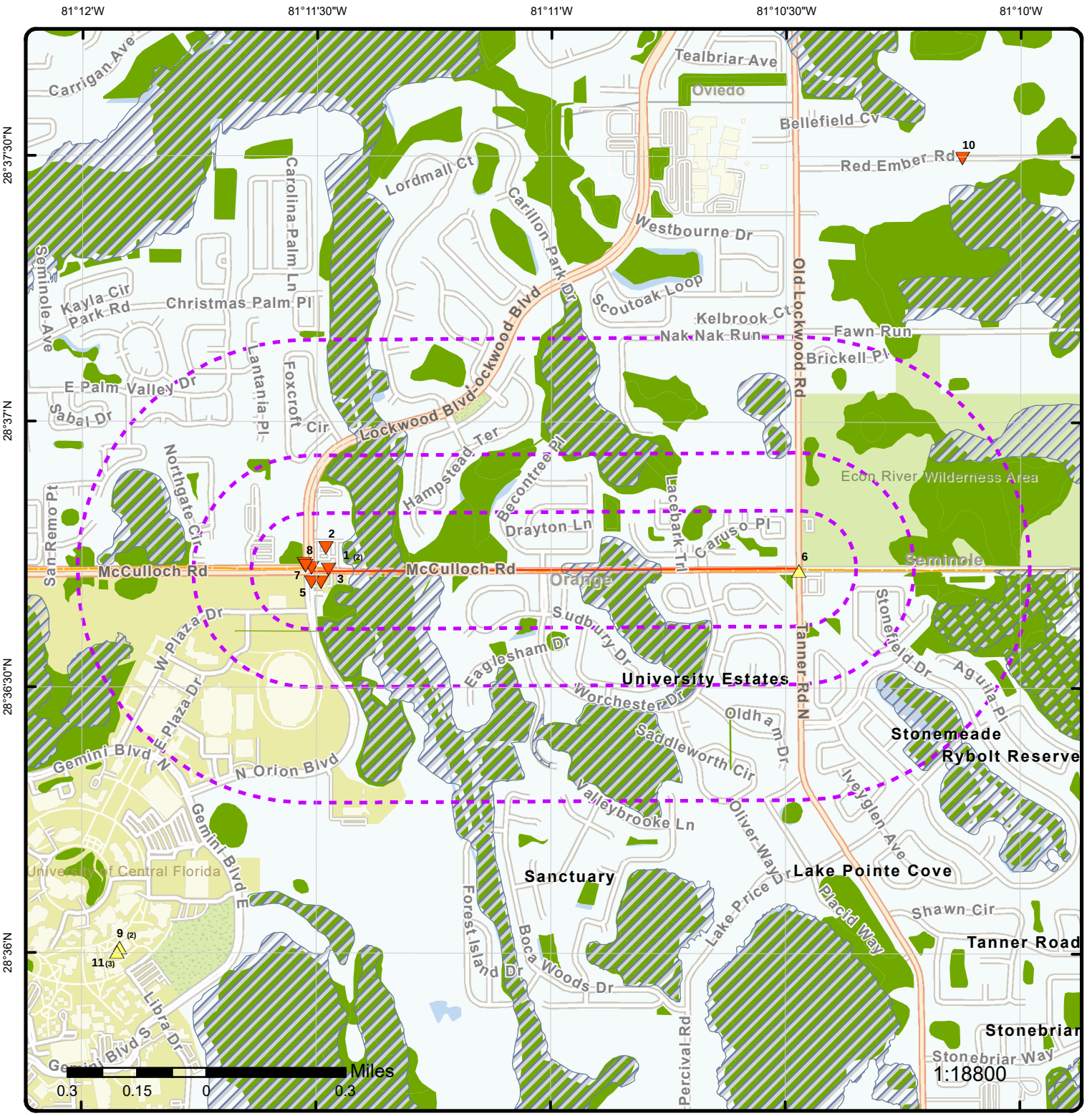
Address: McCulloch Road, Oviedo, FL

ERIS

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Eris Areas with Higher Elevation
- Eris Areas with Same Elevation
- Eris Areas with Lower Elevation
- Eris Areas with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major & Minor Arterial
- Traffic Circle; Ramp
- Local Road
- Rail
- State
- Country
- National Priority List Sites
- National Wetland
- Indian Reserve Land
- Historic Fill
- 100 Year Flood Zone
- 500 Year Flood Zone
- FWS Special Designation Areas
- Plume

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Map: 0.5 Mile Radius

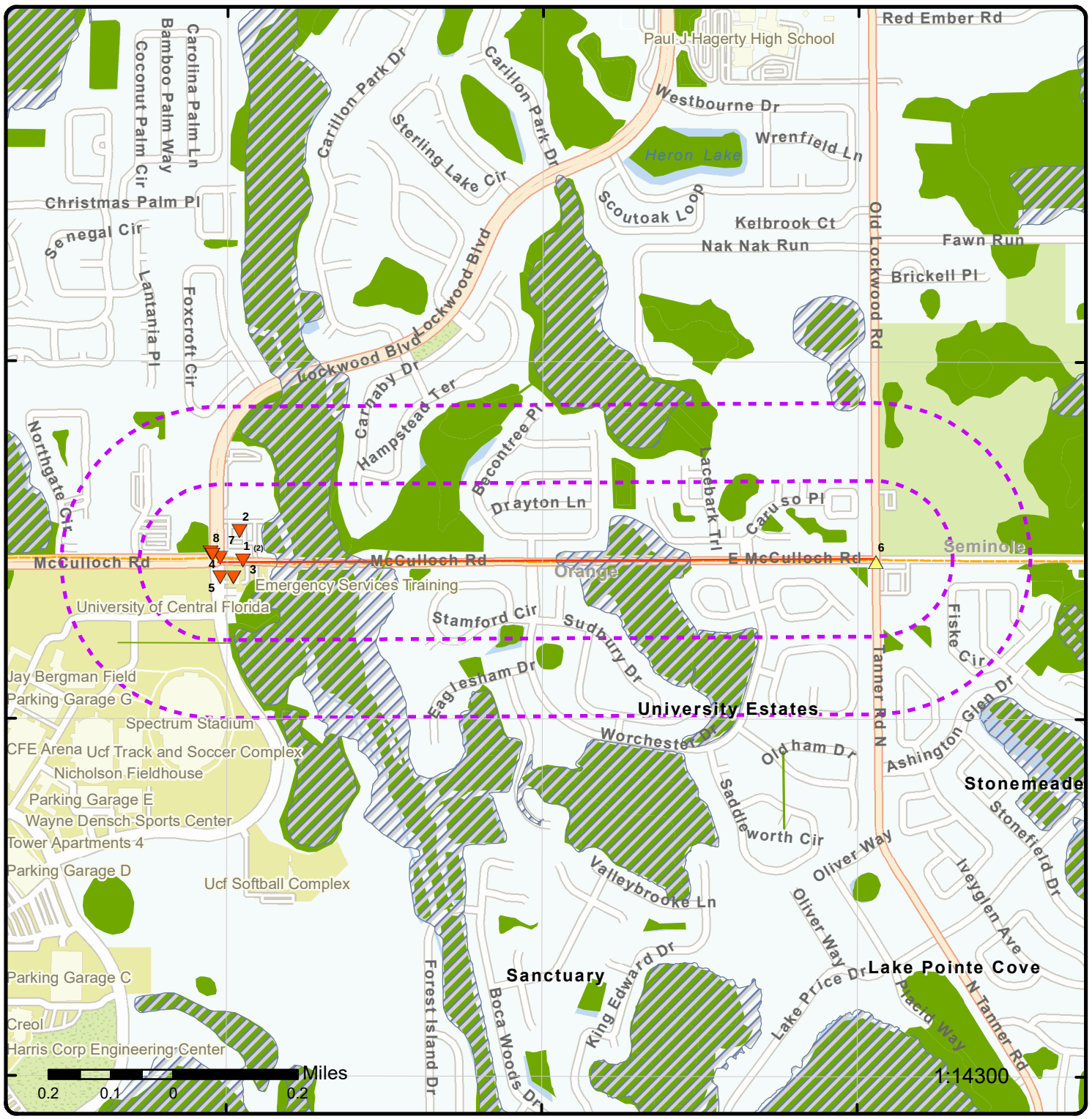
Order Number: 22012500722

Address: McCulloch Road, Oviedo, FL

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Eris Areas with Higher Elevation
- Eris Areas with Same Elevation
- Eris Areas with Lower Elevation
- Eris Areas with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major & Minor Arterial
- Traffic Circle; Ramp
- Local Road
- Rail
- State
- Country
- National Priority List Sites
- National Wetland
- Indian Reserve Land
- Historic Fill
- 100 Year Flood Zone
- 500 Year Flood Zone
- FWS Special Designation Areas
- Plume

Source: © 2021 ESRI StreetMap Premium

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Map: 0.25 Mile Radius

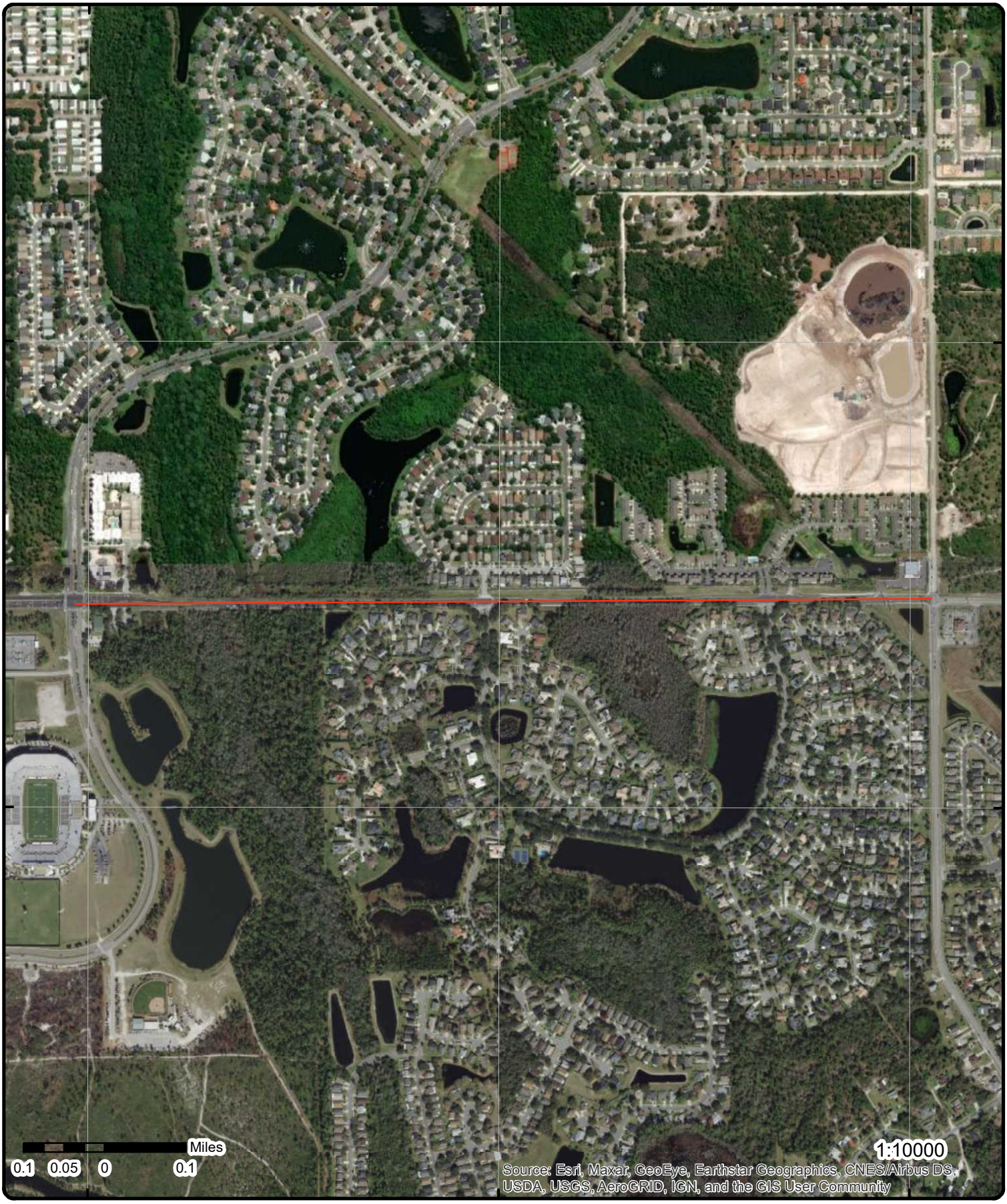
Order Number: 22012500722

Address: McCulloch Road, Oviedo, FL

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Eris Areas with Higher Elevation
- Eris Areas with Same Elevation
- Eris Areas with Lower Elevation
- Eris Areas with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major & Minor Arterial
- Traffic Circle; Ramp
- Local Road
- Rail
- State
- Country
- National Priority List Sites
- National Wetland
- Indian Reserve Land
- Historic Fill
- 100 Year Flood Zone
- 500 Year Flood Zone
- FWS Special Designation Areas
- Plume

Source: © 2021 ESRI StreetMap Premium

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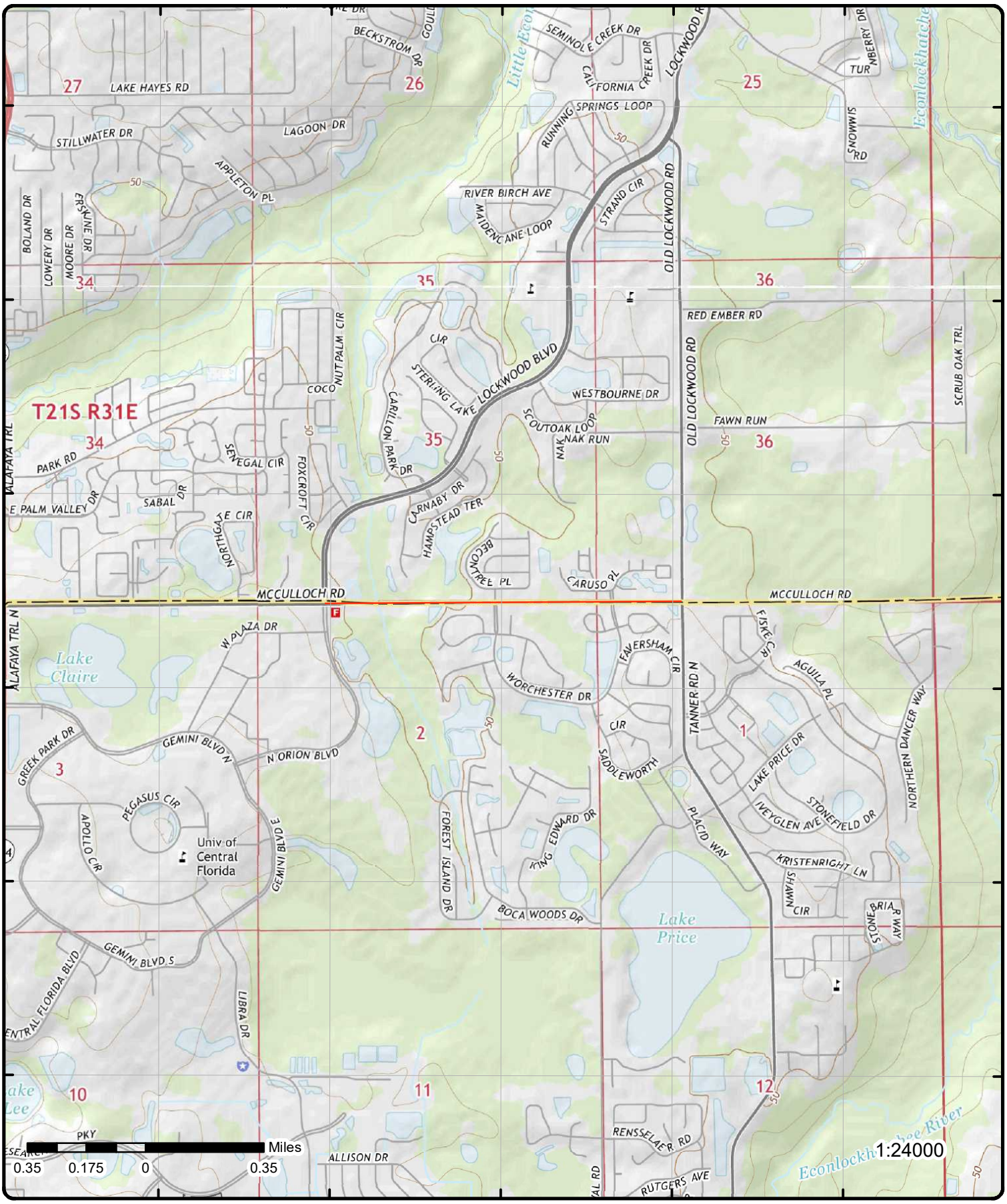
Aerial **Year: 2019**

Order Number: 22012500722

Address: McCulloch Road, Oviedo, FL

Source: ESRI World Imagery

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Topographic Map

Year: 2015

Order Number: 22012500722

Address: McCulloch Road, FL

Quadrangle(s): Oviedo, FL; Oviedo SW, FL

Source: USGS Topographic Map

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Detail Report

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	1 of 2	W	0.00 / 17.47	50.11 / -4	7-ELEVEN STORE #37926 1640 MCCULLOCH RD OVIEDO FL 32765	UST

Facility ID:	9805292	**Lat DD:**	28
Facility Status:	OPEN	**Lat MM:**	36
ASTs:		**Lat SS:**	59.999
USTs:		**Long DD:**	81
Tanks:		**Long MM:**	11
Facility Type:	A	**Long SS:**	49
Contact:	DAVID PETERSEN | MILEI AVILES | JENNIFER DART	**Lat/Long Method:**	AGPS
Facility Phone:	4074032995	**Bad Addr Indicator:**	
Owner ID:	20385	**County:**	SEMINOLE
Owner Phone:	4074032995	**Dep Co:**	C

Owner: 7-ELEVEN INC - GASOLINE COMP DEPT 0148
Owner Address1: PO BOX 711
Owner Address2: ATTN: MGR-FL REGION GAS & ENVIRN COMPL
Owner City: Dallas
Owner State: TX
Owner Zip 5: 75221
Owner Zip 4:
Type Desc: Retail Station
Source: Tank Facility - All Locations and Tank Information; Tank Facility - All Locations and Owner Information
Oculus Docs Inventory URL: https://erisservice7.ecologeris.com/ErisExt/flo/ocure.ashx?ID=9805292&CAT=11
Information Portal Facility URL: http://prodenv.dep.state.fl.us/DepNexus/public/facilitysearch?pagination=true&facility.id=9805292
Information Portal Doc URL: http://prodenv.dep.state.fl.us/DepNexus/public/electronic-documents/9805292/facility!search

Tank Information

Tank ID:	2	**Tank Desc:**	Double Walled
Tank Status:	U - IN SERVICE	**Capacity:**	12000
Status Date:	01-OCT-2018	**Placement:**	UNDERGROUND
Installation Date:	01-SEP-2001	**Tank Vessel Indic:**	TANK

Substance: 8 - Ethanol E10

Piping

Tank Stat:	U	**Stat Date:**	01-OCT-2018
Pipe Description:	J-Pressurized piping system		
Tank Stat:	U	**Stat Date:**	01-OCT-2018
Pipe Description:	N-Approved synthetic material		
Tank Stat:	U	**Stat Date:**	01-OCT-2018
Pipe Description:	K-Dispenser liners		
Tank Stat:	U	**Stat Date:**	01-OCT-2018
Pipe Description:	M-Double wall - pipe jacket		

Monitoring

Tank Stat:	U	**Stat Date:**	01-OCT-2018
Monitoring Desc:	3-Electronic monitor pipe sumps		
Tank Stat:	U	**Stat Date:**	01-OCT-2018

Monitoring Desc: 1-Continuous electronic sensing

Tank Stat: U **Stat Date:** 01-OCT-2018
Monitoring Desc: H-Mechanical line leak detector

Tank Stat: U **Stat Date:** 01-OCT-2018
Monitoring Desc: F-Monitor dbl wall tank space

Tank Stat: U **Stat Date:** 01-OCT-2018
Monitoring Desc: K-Monitor dbl wall pipe space

Tank Stat: U **Stat Date:** 01-OCT-2018
Monitoring Desc: 4-Visual inspect dispenser liners

Tank Construction

Cons Code: E
Cons Desc: Fiberglass

Cons Code: O
Cons Desc: Tight fill

Cons Code: M
Cons Desc: Spill containment bucket

Cons Code: N
Cons Desc: Flow shut-Off

Cons Code: I
Cons Desc: Double wall

Cons Code: P
Cons Desc: Level gauges/alarms

Tank Information

Tank ID: 1 **Tank Desc:** Double Walled
Tank Status: U - IN SERVICE **Capacity:** 15000
Status Date: 01-OCT-2018 **Placement:** UNDERGROUND
Installation Date: 01-SEP-2001 **Tank Vessel Indic:** TANK
Substance: 8 - Ethanol E10

Piping

Tank Stat: U **Stat Date:** 01-OCT-2018
Pipe Description: N-Approved synthetic material

Tank Stat: U **Stat Date:** 01-OCT-2018
Pipe Description: M-Double wall - pipe jacket

Tank Stat: U **Stat Date:** 01-OCT-2018
Pipe Description: K-Dispenser liners

Tank Stat: U **Stat Date:** 01-OCT-2018
Pipe Description: J-Pressurized piping system

Monitoring

Tank Stat: U **Stat Date:** 01-OCT-2018
Monitoring Desc: H-Mechanical line leak detector

Tank Stat: U **Stat Date:** 01-OCT-2018
Monitoring Desc: 4-Visual inspect dispenser liners

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Tank Stat:	U	**Stat Date:**	01-OCT-2018
Monitoring Desc:	3-Electronic monitor pipe sumps		
Tank Stat:	U	**Stat Date:**	01-OCT-2018
Monitoring Desc:	F-Monitor dbl wall tank space		
Tank Stat:	U	**Stat Date:**	01-OCT-2018
Monitoring Desc:	K-Monitor dbl wall pipe space		
Tank Stat:	U	**Stat Date:**	01-OCT-2018
Monitoring Desc:	1-Continuous electronic sensing		

Tank Construction

Cons Code:	P
Cons Desc:	Level gauges/alarms
Cons Code:	E
Cons Desc:	Fiberglass
Cons Code:	O
Cons Desc:	Tight fill
Cons Code:	M
Cons Desc:	Spill containment bucket
Cons Code:	N
Cons Desc:	Flow shut-Off
Cons Code:	I
Cons Desc:	Double wall

1	2 of 2	W	0.00 / 17.47	50.11 / -4	**7-ELEVEN STORE #37926** **1640 MCCULLOCH RD** **OVIEDO FL 32765**	LST

Facility ID:	9805292	**Contact:**	DAVID PETERSEN | MILEI AVILES | JENNIFER DART
Facility Status:	OPEN	**Phone:**	(407)403-2995
Facility Type:	A - Retail Station	**Name Changed:**	05/31/2018
Score:	10	**Address Changed:**	01/12/2021
Score Effctve Date:	04/13/2018	**Section:**	
Score when Ranked:		**Township:**	
Rank:		**Range:**	
Operator:	DAVID PETERSEN	**District:**	CD
Prim Related Party:	20385	**County:**	SEMINOLE
Primary RP Role:	ACCOUNT OWNER	**County No:**	59
RP Begin Date:	05/31/2018	**Lat DD:**	28
RP Address1:	PO BOX 711	**Lat MM:**	36
Rp Address2:	ATTN: MGR-FL REGION GAS & ENVIRN COMPL	**Lat SS:**	44.9937
RP City:	Dallas	**Long DD:**	81
RP State:	TX	**Long MM:**	11
RP Zip5:	75221	**Long SS:**	29.5133
RP Zip4:	711	**Feature:**	
RP Phone:	(407)403-2995	**Method:**	AGPS
RP Phone Ext.:		**Datum:**	
RP Bad Addr Ind:	No		
Facility Name (Map):	7-ELEVEN STORE #37926		
Address (Map):	1640 MCCULLOCH RD		
City (Map):	OVIEDO		
Zip5 (Map):	32765		
Facility T (Map):	Retail Station		
Facility S (Map):	OPEN		
County (Map):	SEMINOLE		
Lat DD (Map):	28		
Lat MM (Map):	36		

Long DD (Map):	81
Long MM (Map):	11
Datum (Map):	HARN
Rel Feat (Map):	APPRX
Collection (Map):	DPHO
Collector (Map):	PERRY_JF59
Collecti 1 (Map):	03-Nov-2003
Document L (Map):	https://prodenv.dep.state.fl.us/DepNexus/public/electronic-documents/9805292/facility!search
Lat SS (Map):	
Long SS (Map):	
Geometry (Map):	
RP Name:	7-ELEVEN INC - GASOLINE COMP DEPT 0148
Oculus Docs Inventory:	https://erisservice7.ecologeris.com/ErisExt/flo/ocure.ashx?ID=9805292&CAT=11
Information Portal Fac URL:	http://prodenv.dep.state.fl.us/DepNexus/public/facilitysearch?pagination=true&facility.id=9805292
Information Portal Doc URL:	http://prodenv.dep.state.fl.us/DepNexus/public/electronic-documents/9805292/facility!search

Discharge Cleanup Summary

Discharge Date:	08/31/2017
Cleanup Required:	R - CLEANUP REQUIRED
Discharge Cleanup Status:	SRCR - SRCR COMPLETE
Discharge Cleanup Stat Date:	07/06/2018
Eligibility Indicator:	I - INELIGIBLE
Site Manager:	TAYLOR_DT
Site Manager End Date:	06/19/2018
Tank Office:	PCLP48 - ORANGE COUNTY ENVIRONMENTAL PROTECTION DIV

Contaminated Media

Contaminated Drinking Wells:	
Contaminated Mntring Wells:	NO
Contaminated Soil:	NO
Contaminated Surface Water:	NO
Contaminated Ground Water:	YES
Pollutant:	B - Unleaded Gas
Other Description:	
Gallons Discharged:	

Task Info

SA Task ID:	94876	**RAP Task ID:**	
SA Cleanup Resp:	-	**RAP Clean Resp ID:**	-
SA Fund Elig Type:	-	**RAP Fund Elig Type:**	-
SA Actual Cost:		**RAP Actual Cost:**	
SA Complete Date:		**RAP Complete Date:**	
SA Payment Date:		**RAP Payment Date:**	
SR Task ID:		**RAP Last Ord Appr:**	
SR Cleanup Resp:	-	**RA Task ID:**	95391
SR Fund Elig Type:	-	**RA Cleanup Resp:**	RP - RESPONSIBLE PARTY
SR Actual Cost:		**RA Fund Elig Type:**	-
SR Complete Date:		**RA Yrs to Complete:**	0
SR Payment Date:		**RA Actual Cost:**	
SR Oral Date:		**SRC Action Type:**	SRCR - SITE REHABILITATION COMPLETION REPORT
SR Written Date:		**SRC Submit Date:**	05-16-2018
SR Soil Removal:		**SRC Review Date:**	05-24-2018
SR Free Prod Rmvl:		**SRC Complete Status:**	A - APPROVED
SR Soil Ton Remove:		**SRC Comp Status Dt:**	06-19-2018
SR Soil Treatment:		**SRC Issue Date:**	07-06-2018
SR Other Treatment:		**SRC Comments:**	WA PENDING SRCO APPROVAL
SR Alt Proc Rec:		**Tank Office:**	PCLP48 - Orange County
SR Alternate Procedure Status:			
SR Alt Procedure Status Dt:			
SR Alt Procedure Comment:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Petroleum Cleanup PCT Facility Score

Facility Cleanup Status:	CMPL - COMPLETED
Related Party ID:	20385
RP Contact:	DAVID PETERSEN | MILEI AVILES | JENNIFER DART
Bad Address Indicator:	N

Discharge Info (Map)

Discharge:	61874	***Discharg 3:***	SRCR
Discharg 1:	31-Aug-2017	***Disch Clea:***	06-Jul-2018
Discharg 2:	10	***Report Pha:***	COMPLETED
Eligibilit:	INELIGIBLE	***Report Sub:***	COMPLETED
Eligibil 1:		***Report S 1:***	06-Jul-2018
General Cl:	CLOSURE	***Staff Assi:***	
Tank Offic:	ORANGE COUNTY ENVIRONMENTAL PROTECTION DIV		

2	*1 of 1*	*W*	*0.05 / 264.46*	*49.02 / -5*	***CHEVRON*** ***1640 McCullough*** ***Oviedo FL 32795***	***WELL SURVEILLANCE***

Facility ID:	9805292	***County:***	SEMINOLE
Project ID:	SUPER	***Longitude:***	-81.191572
Req No:		***Latitude:***	28.61245
Loc ID:	4046167	***GPS Date:***	3/29/2018 0:00:00
GPS ID:	4046167	***Datum:***	
Type:	PETROLEUM	***Software:***	Risk_Aerial_Entry
Insp CHD:	SEMINOLE	***Streetside:***	
HAE:		***Agency:***	DOH
Loc Method:	DGPS - Differentially Corrected GPS		
Insp F Name:			
Insp L Name:	JB		
Comment:			

3	*1 of 1*	*W*	*0.02 / 129.14*	*51.38 / -3*	***ORANGE CNTY FIRE & RESCUE #65*** ***4999 B ORION BLVD*** ***ORLANDO FL 32826***	***AST***

Facility ID:	9802715	***Lat DD:***	28
Facility Status:	OPEN	***Lat MM:***	36
ASTs:		***Lat SS:***	41.52
USTs:		***Long DD:***	81
Tanks:		***Long MM:***	11
Facility Type:	I	***Long SS:***	28.3
Contact:	PHILLIP FRANCOM | TISHA PENCE (407) 836-9638	***Lat/Long Method:***	DPHO
Facility Phone:	4078369018	***Bad Addr Indicator:***	
Owner ID:	15902	***County:***	ORANGE
Owner Phone:	4078369843	***Dep Co:***	D
Owner:	ORANGE CNTY BOCC - FIRE & RESCUE DIV		
Owner Address1:	6590 AMORY CT		
Owner Address2:	ATTN: STORAGE TANK REGIS		
Owner City:	WINTER PARK		
Owner State:	FL		
Owner Zip 5:	32793		
Owner Zip 4:			
Type Desc:	County Government		
Source:	Tank Facility - All Locations and Tank Information; Tank Facility - All Locations and Owner Information		
Oculus Docs Inventory URL:	https://erisservice7.ecologeris.com/ErisExt/flo/ocure.ashx?ID=9802715&CAT=11		
Information Portal Facility URL:	http://prodenv.dep.state.fl.us/DepNexus/public/facilitysearch?pagination=true&facility.id=9802715		
Information Portal Doc URL:	http://prodenv.dep.state.fl.us/DepNexus/public/electronic-documents/9802715/facility!search		

Tank Information

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Tank ID: 1
Tank Status: U - IN SERVICE
Status Date: 01-OCT-1999
Installation Date: 01-OCT-1999
Content Desc: G - Emerg Generator Diesel
Tank Desc:
Capacity: 500
Placement: ABOVEGROUND
Tank Vessel Indic: TANK

---

4 | **1 of 1** | **W** | **0.01 / 37.78** | **52.44 / -2** | **MCCULLOCH - LOCKWOOD RETAIL**
CORNER OF MCCULLOCH & LOCKWOOD BLVD
OVIEDO FL 32765 | **FINDS/FRS**

Registry ID: 110035453960
FIPS Code: 00117
HUC Code: 03090101
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 23-APR-08
Update Date:
Interest Types: STATE MASTER
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor: FDM
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 08
Census Block Code: 120950170012068
EPA Region Code: 04
County Name: SEMINOLE
US/Mexico Border Ind:
Latitude: 28.4375
Longitude: -81.473333
Reference Point: FACILITY CENTROID
Coord Collection Method: UNKNOWN
Accuracy Value: 1000
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110035453960
Program Acronyms:

FDM:23569

---

5 | **1 of 1** | **W** | **0.02 / 126.34** | **53.19 / -1** | **UCF North Substation**
6900 North Orion Road
Orlando FL 32826 | **TIER 2**

Facility Name: UCF North Substation

2018 Data

Facility ID: 6103267
Filing Year: 2017(Tier2)
CAS No:
Solid: False
Liquid: True
Gas: False
Pure: False
Mixture: True
Filing Type: 312
First Submit Date: 2018-02-21(Tier2)
NAICS Code: 221121
Dun Bradstreet: 00-692-3700
Max Daily Qty: 103805
Avg Daily Qty: 51899
EHS:
Below Thresholds:

Explosive: False
Trade Secret:
Chemical Name: HYVOLT II
Hazard Not Otherwise Classifie: False
Contact Name: _ Duke Energy Florida, LLC
Contact Type: Owner / Operator
Contact Email: Jen.McDaniel@duke-energy.com
Contact Work Phone:
Contact 24 Hour Phone: 800-777-9898
Contact Mobile Phone:

2019 Data

Facility ID: 6400934
Filing Year: 2018(Tier2)
CAS No:
Solid: False
Liquid: True
Gas: False
Pure: False
Mixture: True
Explosive: False
Chemical Name: HYVOLT II
Hazard Not Otherwise Classifie: False
Contact Name: _ Duke Energy Florida, LLC
Contact Type: Owner / Operator
Contact Email: Jen.McDaniel@duke-energy.com
Contact Work Phone:
Contact 24 Hour Phone: 800-777-9898
Contact Mobile Phone:
Filing Type: 312
First Submit Date: 2019-02-21(Tier2)
NAICS Code: 221121
Dun Bradstreet: 00-692-3700
Max Daily Qty: 103805
Avg Daily Qty: 51899
EHS:
Below Thresholds:
Trade Secret:

2020 Data (Filed)

Facility ID: 6681960
Filing Year: 2019(Tier2)
CAS No:
Filing Type: 312
First Submit Date: 2020-02-26(Tier2)
NAICS Code: 221121
Explosive: False
Mixture: True
Pure: False
Liquid: True
Solid: False
Gas: False
Chemical Name: HYVOLT II
Hazard Not Otherwise Classifi: False
Contact Name: _ Duke Energy Florida, LLC
Contact Type: Owner / Operator
Contact Email: Jen.McDaniel@duke-energy.com
Contact Work Phone:
Contact 24 Hour Phone: 800-777-9898
Contact Mobile Phone:
Dun Bradstreet Code: 00-692-3700
Max Daily Wty: 103,805
Avg Daily Qty: 51,899
EHS:
Below Thresholds:
Trade Secret:

2021 Data

Facility ID: 6818555
Filing Year: 2020(Tier2)
CAS No:
Solid: False
Liquid: True
Gas: False
Pure: False
Mixture: True
Filing Type: 312
Trade Secret:
Explosive: False
First Submit Date: 2021-02-09(Tier2)
NAICS Code: 221121
Dun Bradstreet Code: 00-692-3700
Max Daily Wty: 499,999
Avg Daily Qty: 74,999
EHS:
Below Thresholds:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Chemical Name: HYVOLT II ERGON MTL
Hazard Not Otherwise Classifie: False
Contact Name: _ Duke Energy Florida, LLC
Contact Type: Owner / Operator
Contact Email: Patrica.West@Duke-Energy.com
Contact Work Phone: 727-480-7325
Contact 24 Hour Phone: 800-777-9898
Contact Mobile Phone:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
6	1 of 1	E	0.00 / 25.90	59.00 / 5	FIFTH - THIRD BANK - MCCULLOCH SE CORNER OF TANNER & MCCULLOC ORLANDO FL 32801	FINDS/FRS

Registry ID: 110024384101
FIPS Code: 12095
HUC Code: 03080101
Site Type Name: STATIONARY
Location Description:
Supplemental Location: H
Create Date: 30-JAN-06
Update Date: 05-MAR-13
Interest Types: ICIS-NPDES NON-MAJOR, STATE MASTER, STORM WATER CONSTRUCTION
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor: FDM
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 24
Census Block Code: 120950165071000
EPA Region Code: 04
County Name: ORANGE
US/Mexico Border Ind:
Latitude: 28.611944
Longitude: -81.174444
Reference Point: FACILITY CENTROID
Coord Collection Method: UNKNOWN
Accuracy Value: 1000
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110024384101
Program Acronyms:

FDM:29835, FDM:29836, FDM:30267, NPDES:FLR10BG91

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
7	1 of 1	W	0.01 / 76.05	53.44 / -1	MCCULLOCH RD & LOCKWOOD BLVD INTERSECTION IMPROVEMENTS UNKNOWN OVIEDO FL 32762	FINDS/FRS

Registry ID: 110055364323
FIPS Code: FL117
HUC Code: 03080101
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 09-JUL-13
Update Date: 07-OCT-16
Interest Types: ICIS-NPDES NON-MAJOR, STORM WATER CONSTRUCTION

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

SIC Codes:	
SIC Code Descriptions:	
NAICS Codes:	
NAICS Code Descriptions:	
Conveyor:	ICIS
Federal Facility Code:	
Federal Agency Name:	
Tribal Land Code:	
Tribal Land Name:	
Congressional Dist No:	24
Census Block Code:	121170213162027
EPA Region Code:	04
County Name:	SEMINOLE
US/Mexico Border Ind:	
Latitude:	28.612144
Longitude:	-81.192056
Reference Point:	
Coord Collection Method:	
Accuracy Value:	
Datum:	NAD83
Source:	
Facility Detail Rprt URL:	https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110055364323
Program Acronyms:	

NPDES:FLR10MT67

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
8	1 of 1	W	0.02 / 100.81	53.44 / -1	COMMUNICATION LINE INSTALL- AT&T PROJECT #A01AXK6 UNKNOWN OVIEDO FL 32762	FINDS/FRS

Registry ID:	110070393499
FIPS Code:	
HUC Code:	03080101
Site Type Name:	STATIONARY
Location Description:	
Supplemental Location:	
Create Date:	07-DEC-18
Update Date:	
Interest Types:	ICIS-NPDES NON-MAJOR
SIC Codes:	
SIC Code Descriptions:	
NAICS Codes:	
NAICS Code Descriptions:	
Conveyor:	ICIS
Federal Facility Code:	
Federal Agency Name:	
Tribal Land Code:	
Tribal Land Name:	
Congressional Dist No:	24
Census Block Code:	121170213152012
EPA Region Code:	04
County Name:	
US/Mexico Border Ind:	
Latitude:	28.6122
Longitude:	-81.1921
Reference Point:	
Coord Collection Method:	
Accuracy Value:	
Datum:	NAD83
Source:	
Facility Detail Rprt URL:	https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070393499
Program Acronyms:	

NPDES:FLR10SD22

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
9	1 of 2	SW	0.91 / 4,802.23	70.80 / 17	UCF BIOLOGY BUILDING 20 HYDRALIC DISCHARGE ELEVATOR UCF CAMPUS ORLANDO FL	WCRPS

Site ID:	334555	**Coord Accuracy ID:**	3
Datum ID:	NAD83	**Zip5:**	
Method ID:	DPHO	**Zip4:**	
Feature:	at elevator spill site	**County ID:**	48
Object of Interest:	CAP_RAP SITE	**County:**	ORANGE
Proximity to Object:	EXACT	**Lat DD:**	28
Interpolation Scale:		**Lat MM:**	36
Map Source:		**Long DD:**	81
Map Source Scale:		**Long MM:**	11

Collect Program ID: CR
Collect Username: MELTON_D
Collect Affiliation: Florida Department of Environmental Protection
Verifying Program ID:
Verify Method ID:
Verifier Username:
Verifier Affiliation:
Project Name: UCF BIOLOGY BUILDING 20 HYDRALIC DISCHARGE ELEVATOR
Documents: https://prodenv.dep.state.fl.us/DepNexus/public/electronic-documents/COM_334555/gis-facility!search

Project Details

Project ID:	346345	**District:**	CD
OGC No:		**GIS ALBX:**	
Status:	INACTIVE	**GIS ALBY:**	
Priority Score:		**Source:**	Inactive Responsible Party Sites
Offsite COC:			

Contaminants: Meeting set up - performed on 5 27 2015

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
9	2 of 2	SW	0.91 / 4,802.23	70.80 / 17	UCF BIOLOGY BUILDING 20 HYDRALIC DISCHARGE ELEVATOR UCF CAMPUS ORLANDO FL -	CLEANUP DEP

DEP Cleanup Site:	69010391	**Object ID:**	4252
Source Database:	ERIC	**X Coordina:**	
Source Database ID:	ERIC_12800	**Y Coordina:**	
CPAC Prog Area ID:	CU	**Latitude D:**	28
CLCC Cleanup Categ:	OTHCU	**Latitude M:**	36
RSC2 Remed Status:	OPEN	**Latitude S:**	
Collect Username:	MELTON_D	**Longitude D:**	81
Collect Date:		**Longitude M:**	11
CollectAffiliation:		**Longitude S:**	
OIC Object:	CAP_R	**Map Source:**	
PC2 Proximity ID:	EXACT	**Map Sour 1:**	
CalcCoordAccuracy:	3	**County:**	
Coordinate Method:		**DC4 Datum ID:**	NAD83
Data Load Date:	2021/10/20 07:00:24+00	**Interpolat:**	
Cc2 County:	48	**Verifer Username:**	
Oc3 Office:	CD	**VeriferAffiliation:**	
Source Latitude:	28.6001613623603	**Verification Date:**	
Source Longitude:	-81.1986450575186	**Verif Coord Method:**	
Verif Status:			
Geometry:			

Comments: Alternate ID:
Documents: https://prodenv.dep.state.fl.us/DepNexus/public/electronic-documents/ERIC_12800/facility!search

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
10	1 of 1	NE	0.95 / 5,031.04	41.31 / -13	CHRISTENSEN DUMP 2247 RED EMBER RD OVIEDO FL 32765-	CLEANUP DEP

DEP Cleanup Site:	69010117	**Object ID:**	4064
Source Database:	ERIC	**X Coordina:**	
Source Database ID:	ERIC_14994	**Y Coordina:**	
CPAC Prog Area ID:	CU	**Latitude D:**	28
CLCC Cleanup Categ:	OTHCU	**Latitude M:**	37
RSC2 Remed Status:	OPEN	**Latitude S:**	
Collect Username:	WILLIAMS_CA	**Longitude D:**	81
Collect Date:		**Longitude M:**	10
CollectAffiliation:		**Longitude S:**	
OIC Object:	CONTS	**Map Source:**	IMAGERY_WITH_ROADS
PC2 Proximity ID:	APPRX	**Map Sour 1:**	4513
CalcCoordAccuracy:	3	**County:**	
Coordinate Method:	DPHO	**DC4 Datum ID:**	NAD83
Data Load Date:	2021/10/20 07:00:24+00	**Interpolat:**	4513
Cc2 County:	59	**Verifer Username:**	WILLIAMS_CA
Oc3 Office:	TAL	**VeriferAffiliation:**	
Source Latitude:	28.6241378690061	**Verification Date:**	2019/12/18 07:21:24+00
Source Longitude:	-81.1678709666595	**Verif Coord Method:**	DPHO
Verif Status:			
Geometry:			
Comments:	Alternate ID:		
Documents:	https://prodenv.dep.state.fl.us/DepNexus/public/electronic-documents/ERIC_14994/facility!search		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
11	1 of 3	SW	0.92 / 4,862.56	71.11 / 17	UCF BIOLOGY BUILDING 20 - SANITARY SEWER DISCHARGE LIBRA DRIVE ORLANDO FL	WCRPS

Site ID:	343095	**Coord Accuracy ID:**	3
Datum ID:	NAD83	**Zip5:**	
Method ID:	DPHO	**Zip4:**	
Feature:	at location of sewer line	**County ID:**	48
Object of Interest:	CAP_RAP SITE	**County:**	ORANGE
Proximity to Object:	EXACT	**Lat DD:**	28
Interpolation Scale:		**Lat MM:**	36
Map Source:		**Long DD:**	81
Map Source Scale:		**Long MM:**	11
Collect Program ID:	CR		
Collect Username:	MELTON_D		
Collect Affiliation:	Florida Department of Environmental Protection		
Verifying Program ID:			
Verify Method ID:			
Verifier Username:			
Verifier Affiliation:			
Project Name:	UCF BIOLOGY BUILDING 20 - SANITARY SEWER DISCHARGE		
Documents:	https://prodenv.dep.state.fl.us/DepNexus/public/electronic-documents/COM_343095/gis-facility!search		

Project Details

Project ID:	350927	**District:**	CD
OGC No:		**GIS ALBX:**	
Status:	INACTIVE	**GIS ALBY:**	
Priority Score:		**Source:**	Inactive Responsible Party Sites
Offsite COC:			
Contaminants:	suspected analytes, Nitrate, Nitrite, chlorine, ammonia, fecal coliform, phosphorus,		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
11	2 of 3	SW	0.92 / 4,862.56	71.11 / 17	UCF BIOLOGY BUILDING 20 - SANITARY SEWER DISCHARGE LIBRA DRIVE ORLANDO FL	DELISTED WCP

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Delisted Environmental Protection Cleanup Sites

Geometry:	
DEP Cleanup Site:	64751598
Source Database:	ERIC
Source Database ID:	ERIC_12837
CPAC Prog Area ID:	CU
CLCC Cleanup Categ:	OTHCU
RSC2 Remed Status:	OPEN
Data Load Date:	2020/10/26 07:00:20+00
County:	
Cc2 County:	48
Oc3 Office:	CD
OIC Object:	CAP_R
PC2 Proximity ID:	EXACT
DC4 Datum ID:	NAD83
Verif Status:	
Collect Username:	MELTON_D
Collect Date:	1970/01/01 00:00:00+00
Collect Affiliation:	
Verifer Username:	
Verifer Affiliation:	
Verification Date:	1970/01/01 00:00:00+00
Verif Coord Method:	
Object ID:	2689
Map Source:	
Map Sour 1:	0
Interpolat:	
Calc Coord Accuracy:	3
Coordinate Method:	
Source Latitude:	28.600017196
Source Longitude:	-81.198738891
X Coordina:	
Y Coordina:	
Latitude D:	28
Latitude M:	36
Latitude S:	
Longitude D:	81
Longitude M:	11
Longitude S:	
Documents:	https://prodenv.dep.state.fl.us/DepNexus/public/electronic-documents/ERIC_12837/facility!search
Comments:	Alternate ID:
Original Source:	DEPC
Record Date:	28-OCT-2020

11	*3 of 3*	*SW*	*0.92 / 4,862.56*	*71.11 / 17*	***UCF BIOLOGY BUILDING 20 - SANITARY SEWER DISCHARGE LIBRA DRIVE ORLANDO FL -***	***CLEANUP DEP***

DEP Cleanup Site:	69010340	***Object ID:***	4070
Source Database:	ERIC	***X Coordina:***	
Source Database ID:	ERIC_12837	***Y Coordina:***	
CPAC Prog Area ID:	CU	***Latitude D:***	28
CLCC Cleanup Categ:	OTHCU	***Latitude M:***	36
RSC2 Remed Status:	OPEN	***Latitude S:***	
Collect Username:	MELTON_D	***Longitude D:***	81
Collect Date:		***Longitude M:***	11
CollectAffiliation:		***Longitude S:***	
OIC Object:	CAP_R	***Map Source:***	
PC2 Proximity ID:	EXACT	***Map Sour 1:***	
CalcCoordAccuracy:	3	***County:***	
Coordinate Method:		***DC4 Datum ID:***	NAD83
Data Load Date:	2021/10/20 07:00:24+00	***Interpolat:***	
Cc2 County:	48	***Verifer Username:***	
Oc3 Office:	CD	***VeriferAffiliation:***	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Source Latitude:	28.600017195609	***Verification Date:***	
Source Longitude:	-81.1987388912596	***Verif Coord Method:***	
Verif Status:			
Geometry:			
Comments:	Alternate ID:		
Documents:	https://prodenv.dep.state.fl.us/DepNexus/public/electronic-documents/ERIC_12837/facility!search		

Unplottable Summary

Total: 2 Unplottable sites

DB	Company Name/Site Name	Address	City	Zip	ERIS ID
CLEANUP DEP	*GENE BROWNFIELD SITE AKA REDDITT PROPERTY	INNOVATION WAY & SOUTH ALAFAYA TRAIL	ORLANDO FL	32828-	891481951
SPILLS		Lockwood	Oviedo FL		833894172
		Incident No | Incident Date: 54807 | 3/4/2016 3:00:00 PM ***Incident Status:*** Saved, Saved, Saved, Saved, Saved, Saved, Saved, Saved, Saved, Saved, Saved, Saved			

Unplottable Report

Site: ****GENE BROWNFIELD SITE AKA REDDITT PROPERTY***
INNOVATION WAY & SOUTH ALAFAYA TRAIL ORLANDO FL 32828-

CLEANUP DEP

DEP Cleanup Site:	69010359	***Object ID:***	4131
Source Database:	ERIC	***X Coordina:***	
Source Database ID:	ERIC_12822	***Y Coordina:***	
CPAC Prog Area ID:	CU	***Latitude D:***	28
CLCC Cleanup Categ:	OTHCU	***Latitude M:***	29
RSC2 Remed Status:	OPEN	***Latitude S:***	
Collect Username:	HEAVISIDE_C	***Longitude D:***	81
Collect Date:		***Longitude M:***	9
CollectAffiliation:		***Longitude S:***	
OIC Object:	CAP_R	***Map Source:***	IMAGERY_11_13
PC2 Proximity ID:	APPRX	***Map Sour 1:***	5000
CalcCoordAccuracy:	3	***County:***	
Coordinate Method:	DPHO	***DC4 Datum ID:***	NAD83
Data Load Date:	2021/10/20 07:00:24+00	***Interpolat:***	5000
Cc2 County:	48	***Verifer Username:***	HEAVISIDE_C
Oc3 Office:	CD	***VeriferAffiliation:***	
Source Latitude:	28.4995264494912	***Verification Date:***	2015/03/02 13:41:14+00
Source Longitude:	-81.1617294049915	***Verif Coord Method:***	DPHO
Verif Status:			
Geometry:			
Comments:	Alternate ID:		
Documents:	https://prodenv.dep.state.fl.us/DepNexus/public/electronic-documents/ERIC_12822/facility!search		

Site:
Lockwood Oviedo FL

SPILLS

Incident No:	54807	***Incident Date:***	3/4/2016 3:00:00 PM
Incident Type:		***County:***	Seminole

Spill Details

Incident Status:	Saved	***Criminal Indicator:***	
Incident Party Type:		***Hurricane Indicator:***	
Incident Party Name:	Florida Highway Patrol	***Description:***	Accident
Pollutant Name:	Diesel fuel	***On Scene Response:***	
Pollutant Category:			
Pollutant Actual Volume:	80.00		
Pollutant Unit Measure:	gallon		

Spill Details

Incident Status:	Saved	***Criminal Indicator:***	
Incident Party Type:		***Hurricane Indicator:***	
Incident Party Name:	Florida Highway Patrol	***Description:***	Spill
Pollutant Name:	Diesel fuel	***On Scene Response:***	
Pollutant Category:			
Pollutant Actual Volume:	80.00		
Pollutant Unit Measure:	gallon		

Spill Details

Incident Status:	Saved	***Criminal Indicator:***	
Incident Party Type:		***Hurricane Indicator:***	
Incident Party Name:	Local Fire Department	***Description:***	Spill

Pollutant Name: Diesel fuel
Pollutant Category:
Pollutant Actual Volume: 80.00
Pollutant Unit Measure: gallon
On Scene Response:

Spill Details

Incident Status: Saved
Incident Party Type:
Incident Party Name: Local Programs
Pollutant Name: Diesel fuel
Pollutant Category:
Pollutant Actual Volume: 80.00
Pollutant Unit Measure: gallon
Criminal Indicator:
Hurricane Indicator:
Description: Spill
On Scene Response:

Spill Details

Incident Status: Saved
Incident Party Type:
Incident Party Name: Port Consolidated - Orlando
Pollutant Name: Diesel fuel
Pollutant Category:
Pollutant Actual Volume: 80.00
Pollutant Unit Measure: gallon
Criminal Indicator:
Hurricane Indicator:
Description: Accident
On Scene Response:

Spill Details

Incident Status: Saved
Incident Party Type:
Incident Party Name: Cliff Berry
Pollutant Name: Diesel fuel
Pollutant Category:
Pollutant Actual Volume: 80.00
Pollutant Unit Measure: gallon
Criminal Indicator:
Hurricane Indicator:
Description: Accident
On Scene Response:

Spill Details

Incident Status: Saved
Incident Party Type:
Incident Party Name: Port Consolidated - Orlando
Pollutant Name: Diesel fuel
Pollutant Category:
Pollutant Actual Volume: 80.00
Pollutant Unit Measure: gallon
Criminal Indicator:
Hurricane Indicator:
Description: Spill
On Scene Response:

Spill Details

Incident Status: Saved
Incident Party Type:
Incident Party Name: Streamline Environmental
Pollutant Name: Diesel fuel
Pollutant Category:
Pollutant Actual Volume: 80.00
Pollutant Unit Measure: gallon
Criminal Indicator:
Hurricane Indicator:
Description: Accident
On Scene Response:

Spill Details

Incident Status: Saved
Incident Party Type:
Incident Party Name: Streamline Environmental
Pollutant Name: Diesel fuel
Pollutant Category:
Pollutant Actual Volume: 80.00
Pollutant Unit Measure: gallon
Criminal Indicator:
Hurricane Indicator:
Description: Spill
On Scene Response:

Spill Details

Incident Status: Saved
Incident Party Type:
Incident Party Name: Local Programs
Pollutant Name: Diesel fuel
Pollutant Category:
Pollutant Actual Volume: 80.00
Pollutant Unit Measure: gallon

Criminal Indicator:
Hurricane Indicator:
Description: Accident
On Scene Response:

Spill Details

Incident Status: Saved
Incident Party Type:
Incident Party Name: Cliff Berry
Pollutant Name: Diesel fuel
Pollutant Category:
Pollutant Actual Volume: 80.00
Pollutant Unit Measure: gallon

Criminal Indicator:
Hurricane Indicator:
Description: Spill
On Scene Response:

Spill Details

Incident Status: Saved
Incident Party Type:
Incident Party Name: Local Fire Department
Pollutant Name: Diesel fuel
Pollutant Category:
Pollutant Actual Volume: 80.00
Pollutant Unit Measure: gallon

Criminal Indicator:
Hurricane Indicator:
Description: Accident
On Scene Response:

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ERIS updates databases as set out in ASTM Standard E1527-13 and E1527-21, Section 8.1.8 Sources of Standard Source Information:

"Government information from nongovernmental sources may be considered current if the source updates the information at least every 90 days, or, for information that is updated less frequently than quarterly by the government agency, within 90 days of the date the government agency makes the information available to the public."

Standard Environmental Record Sources

Federal

Formerly Utilized Sites Remedial Action Program: DOE FUSRAP

The U.S. Department of Energy (DOE) established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from the Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations. The DOE Office of Legacy Management (LM) established long-term surveillance and maintenance (LTS&M) requirements for remediated FUSRAP sites. DOE evaluates the final site conditions of a remediated site on the basis of risk for different future uses. DOE then confirms that LTS&M requirements will maintain protectiveness.

Government Publication Date: Mar 4, 2017

National Priority List: NPL

National Priorities List (Superfund)-NPL: EPA's (United States Environmental Protection Agency) list of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. The NPL, which EPA is required to update at least once a year, is based primarily on the score a site receives from EPA's Hazard Ranking System. A site must be on the NPL to receive money from the Superfund Trust Fund for remedial action.

Government Publication Date: Dec 30, 2021

National Priority List - Proposed: PROPOSED NPL

Includes sites proposed (by the EPA, the state, or concerned citizens) for addition to the NPL due to contamination by hazardous waste and identified by the Environmental Protection Agency (EPA) as a candidate for cleanup because it poses a risk to human health and/or the environment.

Government Publication Date: Dec 30, 2021

Deleted NPL: DELETED 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.

Government Publication Date: Dec 30, 2021

SEMS List 8R Active Site Inventory: SEMS

The Superfund Program has deployed the Superfund Enterprise Management System (SEMS), which integrates multiple legacy systems into a comprehensive tracking and reporting tool. This inventory contains active sites evaluated by the Superfund program that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted.

Government Publication Date: Dec 30, 2021

Inventory of Open Dumps, June 1985: ODI

The Resource Conservation and Recovery Act (RCRA) provides for publication of an inventory of open dumps. The Act defines "open dumps" as facilities which do not comply with EPA's "Criteria for Classification of Solid Waste Disposal Facilities and Practices" (40 CFR 257).

Government Publication Date: Jun 1985

SEMS List 8R Archive Sites: SEMS ARCHIVE

The Superfund Enterprise Management System (SEMS) Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time.

Government Publication Date: Dec 30, 2021

Comprehensive Environmental Response, Compensation and Liability Information System - CERCLIS: CERCLIS

Superfund is a program administered by the United States Environmental Protection Agency (EPA) to locate, investigate, and clean up the worst hazardous waste sites throughout the United States. CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The EPA administers the Superfund program in cooperation with individual states and tribal governments; this database is made available by the EPA.

Government Publication Date: Oct 25, 2013

EPA Report on the Status of Open Dumps on Indian Lands: IODI

Public Law 103-399, The Indian Lands Open Dump Cleanup Act of 1994, enacted October 22, 1994, identified congressional concerns that solid waste open dump sites located on American Indian or Alaska Native (AI/AN) lands threaten the health and safety of residents of those lands and contiguous areas. The purpose of the Act is to identify the location of open dumps on Indian lands, assess the relative health and environment hazards posed by those sites, and provide financial and technical assistance to Indian tribal governments to close such dumps in compliance with Federal standards and regulations or standards promulgated by Indian Tribal governments or Alaska Native entities.

Government Publication Date: Dec 31, 1998

CERCLIS - No Further Remedial Action Planned: CERCLIS NFRAP

An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. The Archive designation means 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). 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.

Government Publication Date: Oct 25, 2013

CERCLIS Liens: CERCLIS LIENS

A Federal Superfund lien exists at any property where EPA has incurred Superfund costs to address contamination ("Superfund site") and has provided notice of liability to the property owner. A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Jan 30, 2014

RCRA CORRACTS-Corrective Action: RCRA CORRACTS

RCRA Info 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. At these sites, the Corrective Action Program ensures that cleanups occur. EPA and state regulators work with facilities and communities to design remedies based on the contamination, geology, and anticipated use unique to each site.

Government Publication Date: Nov 17, 2021

RCRA non-CORRACTS TSD Facilities: RCRA TSD

RCRA Info 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. This database includes Non-Corrective Action sites listed as treatment, storage and/or disposal facilities of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Government Publication Date: Nov 17, 2021

RCRA Generator List: RCRA LQG

RCRA Info 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. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Large Quantity Generators (LQGs) generate 1,000 kilograms per month or more of hazardous waste or more than one kilogram per month of acutely hazardous waste.

Government Publication Date: Nov 17, 2021

RCRA Small Quantity Generators List: RCRA SQG

RCRA Info is the 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. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Small Quantity Generators (SQGs) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month.

Government Publication Date: Nov 17, 2021

RCRA Very Small Quantity Generators List: RCRA VSQG

RCRA Info is the 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. A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Very Small Quantity Generators (VSQG) generate 100 kilograms or less per month of hazardous waste, or one kilogram or less per month of acutely hazardous waste. Additionally, VSQG may not accumulate more than 1,000 kilograms of hazardous waste at any time.

Government Publication Date: Nov 17, 2021

RCRA Non-Generators: RCRA NON GEN

RCRA Info 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. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Non-Generators do not presently generate hazardous waste.

Government Publication Date: Nov 17, 2021

RCRA Sites with Controls: RCRA CONTROLS

List of Resource Conservation and Recovery Act (RCRA) facilities with institutional controls in place. RCRA gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances.

Government Publication Date: Nov 17, 2021

Federal Engineering Controls-ECs: FED ENG

Engineering controls (ECs) encompass a variety of engineered and constructed physical barriers (e.g., soil capping, sub-surface venting systems, mitigation barriers, fences) to contain and/or prevent exposure to contamination on a property. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Dec 30, 2021

Federal Institutional Controls- ICs: FED INST

Institutional controls are non-engineered instruments, such as administrative and legal controls, that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Although it is EPA's (United States Environmental Protection Agency) expectation that treatment or engineering controls will be used to address principal threat wastes and that groundwater will be returned to its beneficial use whenever practicable, ICs play an important role in site remedies because they reduce exposure to contamination by limiting land or resource use and guide human behavior at a site.

Government Publication Date: Dec 30, 2021

Land Use Control Information System: LUCIS

The LUCIS database is maintained by the U.S. Department of the Navy and contains information for former Base Realignment and Closure (BRAC) properties across the United States.

Government Publication Date: Sep 1, 2006

Emergency Response Notification System: ERNS 1982 TO 1986

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1982-1986

Emergency Response Notification System: ERNS 1987 TO 1989

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1987-1989

Emergency Response Notification System: ERNS

Database of oil and hazardous substances spill reports made available by the United States Coast Guard National Response Center (NRC). The NRC fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. These data contain initial incident data that has not been validated or investigated by a federal/state response agency.

Government Publication Date: Jul 26, 2021

The Assessment, Cleanup and Redevelopment Exchange System (ACRES) Brownfield Database: FED 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 protects the environment, reduces blight, and takes development pressures off greenspaces and working lands. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Aug 20, 2021

FEMA Underground Storage Tank Listing: FEMA UST

The Federal Emergency Management Agency (FEMA) of the Department of Homeland Security maintains a list of FEMA owned underground storage tanks.

Government Publication Date: Dec 31, 2017

Facility Response Plan: FRP

List of facilities that have submitted Facility Response Plans (FRP) to EPA. Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit Facility Response Plans (FRPs). Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments.

Government Publication Date: Dec 2, 2020

Historical Gas Stations: HIST GAS STATIONS

This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930.

Government Publication Date: Jul 1, 1930

Petroleum Refineries: REFN

List of petroleum refineries from the U.S. Energy Information Administration (EIA) Refinery Capacity Report. Includes operating and idle petroleum refineries (including new refineries under construction) and refineries shut down during the previous year located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U.S. possessions. Survey locations adjusted using public data.

Government Publication Date: Jul 10, 2020

Petroleum Product and Crude Oil Rail Terminals: BULK TERMINAL

List of petroleum product and crude oil rail terminals made available by the U.S. Energy Information Administration (EIA). Includes operable bulk petroleum product terminals located in the 50 States and the District of Columbia with a total bulk shell storage capacity of 50,000 barrels or more, and/or the ability to receive volumes from tanker, barge, or pipeline; also rail terminals handling the loading and unloading of crude oil that were active between 2017 and 2018. Petroleum product terminals comes from the EIA-815 Bulk Terminal and Blender Report, which includes working, shell in operation, and shell idle for several major product groupings. Survey locations adjusted using public data.

Government Publication Date: Apr 28, 2020

LIEN on Property: SEMS LIEN

The EPA Superfund Enterprise Management System (SEMS) provides LIEN information on properties under the EPA Superfund Program.

Government Publication Date: Dec 30, 2021

Superfund Decision Documents: SUPERFUND ROD

This database contains a listing of decision documents for Superfund sites. Decision documents serve to provide the reasoning for the choice of (or) changes to a Superfund Site cleanup plan. The decision documents include Records of Decision (ROD), ROD Amendments, Explanations of Significant Differences (ESD), along with other associated memos and files. This information is maintained and made available by the US EPA (Environmental Protection Agency).

Government Publication Date: Nov 16, 2021

State

Superfund Waste Cleanup & State-Funded Action Sites: SHWS

List of hazardous waste cleanup sites participating in various federal and state funded cleanup programs. Florida's State-Funded Action Sites and Superfund Waste Cleanup Sites lists are maintained and made available by the Florida Department of Environmental Protection (FDEP). This database is state equivalent CERCLIS.

Government Publication Date: Aug 6, 2021

Delisted State-Funded Action Sites: DELISTED SHWS

This database contains a list of closed hazardous waste sites of various federal and state funded cleanup programs that were removed from the Florida Department of Environmental Protection (FDEP).

Government Publication Date: Aug 6, 2021

Florida Department of Environmental Protection Cleanup Sites: CLEANUP DEP

The Cleanup Sites layer feeds the FDEP's Contamination Locator Map (CLM). It provides locations and document links for sites currently in the cleanup process and sites awaiting cleanup funding. Cleanup programs include: Brownfields, Petroleum, EPA Superfund (CERCLA), Drycleaning, Responsible Party Cleanup, State Funded Cleanup, State Owned Lands Cleanup and Hazardous Waste Cleanup.

Government Publication Date: Oct 20, 2021

Waste Cleanup Responsible Party Sites: WCRPS

List of Open, Closed, and Inactive Waste Cleanup Responsible Party sites made available by the Florida Department of Environmental Protection.

Government Publication Date: Apr 11, 2021

Delisted Waste Cleanup Sites: DELISTED WCP

List of sites which once appeared on - and have since been removed from - the list of Waste Cleanup Sites made available by the Florida Department of Environmental Protection.

Government Publication Date: Oct 20, 2021

Solid Waste Facilities and Landfills: SWF/LF

The Solid Waste Facility Inventory Report made available by the Florida Department of Environmental Protection (FDEP) includes all types of authorized and unauthorized facilities: municipal solid waste, landfills, dumps, construction and demolition disposal, recycling facilities, and more.

Government Publication Date: Nov 23, 2021

Leaking Tanks: LST

The Storage Tank Regulation Section is part of the Petroleum Restoration Program in the Florida Department of Environmental Protection (FDEP)s Division of Waste Management. In 1983, Florida was one of the first states in the union to pass legislation and adopt rules for underground and aboveground storage tank systems. Since then, over 28,000 facilities have reported discharges of petroleum products from storage tank systems. Florida relies on groundwater for about 92 percent of its drinking water needs, and has some of the most stringent rules in the country.

Government Publication Date: Aug 13, 2021

Delisted Leaking Tanks: DELISTED LST

Whereas Leaking Tanks (LST) includes only facilities which currently have contamination as recorded by the Florida Department of Environmental Protection, this list contains facilities which were once included in LST data but no longer appear on the list made available by FDEP. Facilities may be removed from the current LST list because the discharge has been cleaned up, or the discharge is not required for 62-770.

Government Publication Date: May 19, 2021

Underground Storage Tanks: UST

List of Underground Storage Tank facilities made available by the Florida Department of Environmental Protection (FL DEP). Includes facilities tracked for active storage tanks, storage tank history, or petroleum cleanup activity. In an effort to minimize the occurrence and environmental risks of releases and discharges, FDEP administers standards pertaining to the construction, installation, operation, maintenance, repair, closure, and disposal of underground storage tank systems that store regulated substances.
Government Publication Date: Nov 4, 2021

Aboveground Storage Tanks: AST

List of Aboveground Storage Tank facilities made available by the Florida Department of Environmental Protection (FL DEP). Includes facilities tracked for active storage tanks, storage tank history, or petroleum cleanup activity.The Florida Department of Environmental Protection (FDEP) provides standards for aboveground storage tanks (ASTs) that have individual storage tank capacities greater than 550 gallons. The state also regulates the registration, construction, installation, operation, maintenance, repair, closure, and disposal of storage tank systems that store regulated substances.
Government Publication Date: Nov 4, 2021

Storage Tank Facilities: TANK

List of storage tank facilities made available by the Florida Department of Environmental Protection (FL DEP) for which tank information is not available. In the case of closed facilities - where all tanks have been removed or closed, and there is also no petroleum discharge or on-going cleanup activity - the owner data may not be current, but rather would represent the most recent information made available to FL DEP.
Government Publication Date: Nov 4, 2021

Delisted AST UST Storage Tanks: DEL UST AST TANK

This database contains a list of closed UST and AST storage tank sites that were removed from the Florida Department of Environmental Protection (FDEP) storage tank database.
Government Publication Date: Jul 2, 2015

Delisted Storage Tanks: DEL STORAGE TANK

List of sites that once appeared on - and have since been removed from - the list of UST and AST storage tank facilities made available by the Florida Department of Environmental Protection.
Government Publication Date: Nov 5, 2021

Federal Facilities Listing: FF TANKS

The Florida Department of Environmental Protection (FDEP) Storage Tank Program registers facilities and storage tanks where aboveground or underground storage tanks store pollutants, hazardous substances, and/or mineral acid substances regulated by Chapter 62-761, Florida Administrative Code, or when aboveground storage tanks or compression vessels store a hazardous substance which requires registration according to Chapter 376, Florida Statutes.
Government Publication Date: Nov 5, 2021

Storage Tank/Contaminated Facility Search: STCS

List of facilities and tanks in the Florida Department of Environmental Protection (FDEP) Bureau of Petroleum Storage Systems Storage Tank/Contaminated Facility Search which do not currently have active, regulated underground or aboveground storage tanks (USTs or ASTs) containing petroleum. Note that tank details do not appear for facilities for which all tanks have been removed.
Government Publication Date: Nov 12, 2021

Institutional Controls Registry: INST

The Institutional Controls registry is maintained by the Florida Department of Environmental Protection (FDEP). The registry aims to help preserve adequate protection of contaminated soil regions and help to minimize any chances of exposure.
Government Publication Date: May 24, 2021

Engineering Controls: ENG

A listing of all engineering controls that are in place to eliminate or reduce the potential for contaminant migration and exposure to contaminants. These controls may include caps, barriers, guards or fences. The list is maintained by the Florida Department of Environmental Protection (FDEP).
Government Publication Date: May 24, 2021

Voluntary Cleanup Sites: VCP

A listing of active and closed voluntary cleanup sites registered by the Florida Department of Environmental Protection (FDEP).
Government Publication Date: Apr 27, 2021

Brownfield Sites: BROWNFIELDS

Brownfields are defined by the Florida Department of Environmental Protection (FDEP) as abandoned, idled, or underused industrial and commercial facilities where expansion or redevelopment is complicated by real or perceived environmental contamination. This is a list of sites within designated Brownfield Areas within Florida where Brownfield Site Rehabilitation Agreement (BSRA)s have been executed between FDEP and a responsible party.
Government Publication Date: Sep 8, 2021

Brownfield Areas: BROWNFIELD AREA
Brownfields are defined by the Florida Department of Environmental Protection (FDEP) as abandoned, idled, or underused industrial and commercial facilities where expansion or redevelopment is complicated by real or perceived environmental contamination. This is a list of Brownfield Areas, defined by the FDEP as contiguous areas of one or more brownfield sites, some of which may not be contaminated, that have been designated as such by a local government resolution. Such areas may include all or portions of community redevelopment areas, enterprise zones, empowerment zones, other such designated economically deprived communities and areas, and Environmental Protection Agency (EPA) designated brownfield pilot projects. Because a variety of sources and methods were used to derive information for this data, locations are approximate.
Government Publication Date: Oct 5, 2021

Tribal

Leaking Underground Storage Tanks (LUSTs) on Indian Land: INDIAN LUST
Leaking Underground Storage Tanks (LUSTs) on Tribal/Indian Lands in EPA Region 4, which includes Florida.
Government Publication Date: Apr 14, 2020

Underground Storage Tanks (USTs) on Indian Lands: INDIAN UST
Listing of underground storage tanks (USTs) on Tribal/Indian Lands in EPA Region 4, which includes Florida.
Government Publication Date: Apr 14, 2020

Delisted Tribal Leaking Storage Tanks: DELISTED ILST
Leaking Underground Storage Tank facilities which have been removed from the Regional Tribal LUST lists made available by the EPA.
Government Publication Date: Apr 14, 2020

Delisted Tribal Underground Storage Tanks: DELISTED IUST
Underground Storage Tank facilities which have been removed from the Regional Tribal UST lists made available by the EPA.
Government Publication Date: Apr 14, 2020

County

No County databases were selected to be included in the search.

Additional Environmental Record Sources

Federal

Facility Registry Service/Facility Index: FINDS/FRS
The Facility Registry Service (FRS) is a centrally managed database that identifies facilities, sites, or places subject to environmental regulations or of environmental interest. FRS creates high-quality, accurate, and authoritative facility identification records through rigorous verification and management procedures that incorporate information from program national systems, state master facility records, and data collected from EPA's Central Data Exchange registrations and data management personnel. This list is made available by the Environmental Protection Agency (US EPA).
Government Publication Date: Nov 2, 2020

Toxics Release Inventory (TRI) Program: TRIS
The EPA's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of over 650 toxic chemicals from thousands of U. S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment. One of TRI's primary purposes is to inform communities about toxic chemical releases to the environment.
Government Publication Date: Aug 24, 2021

Perfluorinated Alkyl Substances (PFAS) Releases: PFAS TRI

List of Toxics Release Inventory (TRI) facilities at which the reported chemical is a Per- or polyfluorinated alkyl substance (PFAS) included in the Environmental Protection Agency (EPA)'s consolidated PFAS Master List of PFAS Substances. The EPA's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of over 650 toxic chemicals from thousands of U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment.

Government Publication Date: Aug 24, 2021

PFOA/PFOS Contaminated Sites: PFAS NPL

List of sites where PFOA or PFOS contaminants have been found in drinking water or soil. Made available by the Federal Environmental Protection Agency (EPA).

Government Publication Date: Sep 17, 2021

Perfluorinated Alkyl Substances (PFAS) Water Quality: PFAS WATER

The Water Quality Portal (WQP) is a cooperative service sponsored by the United States Geological Survey (USGS), the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC). This listing includes records from the Water Quality Portal where the characteristic (environmental measurement) is in the Environmental Protection Agency (EPA)'s consolidated PFAS Master List of PFAS Substances.

Government Publication Date: Jul 20, 2020

SSEHRI PFAS Contamination Sites: PFAS SSEHRI

This PFAS Contamination Site Tracker database is compiled by the Social Science Environmental Health Research Institute (SSEHRI) at Northeastern University. According to the SSEHRI, the database records qualitative and quantitative data from each known site of PFAS contamination, including timeline of discovery, sources, levels, health impacts, community response, and government response. The goal of this database is to compile information and support public understanding of the rapidly unfolding issue of PFAS contamination. All data presented was extracted from government websites, news articles, or publicly available documents, and this is cited in the tracker. Disclaimer: The source conveys this database undergoes regular updates as new information becomes available, some sites may be missing and/or contain information that is incorrect or outdated, as well as their information represents all contamination sites SSEHRI is aware of, not all possible contamination sites. This data is not intended to be used for legal purposes. Limited location details are available with this data. Access the following for the most current informations https://pfasproject.com/pfas-contamination-site-tr acker/

Government Publication Date: Dec 12, 2019

Hazardous Materials Information Reporting System: HMIRS

US DOT - Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA) Incidents Reports Database taken from Hazmat Intelligence Portal, U.S. Department of Transportation.

Government Publication Date: Sep 1, 2020

National Clandestine Drug Labs: NCDL

The U.S. Department of Justice ("the Department") provides this data 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.

Government Publication Date: Oct 5, 2020

Toxic Substances Control Act: TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The CDR enables EPA to collect and publish information on the manufacturing, processing, and use of commercial chemical substances and mixtures (referred to hereafter as chemical substances) on the TSCA Chemical Substance Inventory (TSCA Inventory). This includes current information on chemical substance production volumes, manufacturing sites, and how the chemical substances are used. This information helps the Agency determine whether people or the environment are potentially exposed to reported chemical substances. EPA publishes submitted CDR data that is not Confidential Business Information (CBI).

Government Publication Date: Apr 11, 2019

Hist TSCA: HIST TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The 2006 IUR data summary report includes information about chemicals manufactured or imported in quantities of 25,000 pounds or more at a single site during calendar year 2005. In addition to the basic manufacturing information collected in previous reporting cycles, the 2006 cycle is the first time EPA collected information to characterize exposure during manufacturing, processing and use of organic chemicals. The 2006 cycle also is the first time manufacturers of inorganic chemicals were required to report basic manufacturing information.

Government Publication Date: Dec 31, 2006

FTTS Administrative Case Listing: FTTS ADMIN

An administrative case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

FTTS Inspection Case Listing: FTTS INSP

An inspection case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

Potentially Responsible Parties List: PRP

Early in the cleanup process, the Environmental Protection Agency (EPA) conducts a search to find the potentially responsible parties (PRPs). EPA looks for evidence to determine liability by matching wastes found at the site with parties that may have contributed wastes to the site.

Government Publication Date: Oct 20, 2021

State Coalition for Remediation of Drycleaners Listing: SCRD DRYCLEANER

The State Coalition for Remediation of Drycleaners (SCRD) was established in 1998, with support from the U.S. Environmental Protection Agency (EPA) Office of Superfund Remediation and Technology Innovation. Coalition members are states with mandated programs and funding for drycleaner site remediation. Current members are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Government Publication Date: Nov 08, 2017

Integrated Compliance Information System (ICIS): ICIS

The Integrated Compliance Information System (ICIS) is a system that provides information for the Federal Enforcement and Compliance (FE&C) and the National Pollutant Discharge Elimination System (NPDES) programs. The FE&C component supports the Environmental Protection Agency's (EPA) Civil Enforcement and Compliance program activities. These activities include Compliance Assistance, Compliance Monitoring and Enforcement. The NPDES program supports tracking of NPDES permits, limits, discharge monitoring data and other program reports.

Government Publication Date: Oct 14, 2021

Drycleaner Facilities: FED DRYCLEANERS

A list of drycleaner facilities from Enforcement and Compliance History Online (ECHO) online search. The Environmental Protection Agency (EPA) tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments.

Government Publication Date: May 5, 2021

Delisted Drycleaner Facilities: DELISTED FED DRY

List of sites removed from the list of Drycleaner Facilities (sites in the EPA's Integrated Compliance Information System (ICIS) with NAIC or SIC codes identifying the business as a drycleaner establishment).

Government Publication Date: May 5, 2021

Formerly Used Defense Sites: FUDS

Formerly Used Defense Sites (FUDS) are properties that were formerly owned by, leased to, or otherwise possessed by and under the jurisdiction of the Secretary of Defense prior to October 1986, where the Department of Defense (DoD) is responsible for an environmental restoration. This list is published by the U.S. Army Corps of Engineers.

Government Publication Date: May 26, 2021

Former Military Nike Missile Sites: FORMER NIKE

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970's. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites. During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.

Government Publication Date: Dec 2, 1984

PHMSA Pipeline Safety Flagged Incidents: PIPELINE INCIDENT

A list of flagged pipeline incidents made available by the U.S. Department of Transportation (US DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA). PHMSA regulations require incident and accident reports for five different pipeline system types.

Government Publication Date: Jul 7, 2020

Material Licensing Tracking System (MLTS): MLTS

A list of sites that store radioactive material subject to the Nuclear Regulatory Commission (NRC) licensing requirements. This list is maintained by the NRC. As of September 2016, the NRC no longer releases location information for sites. Site locations were last received in July 2016.

Government Publication Date: May 11, 2021

Historic Material Licensing Tracking System (MLTS) sites: HIST MLTS

A historic list of sites that have inactive licenses and/or removed from the Material Licensing Tracking System (MLTS). In some cases, a site is removed from the MLTS when the state becomes an "Agreement State". An Agreement State is a State that has signed an agreement with the Nuclear Regulatory Commission (NRC) authorizing the State to regulate certain uses of radioactive materials within the State.

Government Publication Date: Jan 31, 2010

Mines Master Index File: MINES

The Master Index File (MIF) contains mine identification numbers issued by the Department of Labor Mine Safety and Health Administration (MSHA) for mines active or opened since 1971. Note that addresses may or may not correspond with the physical location of the mine itself.

Government Publication Date: Nov 2, 2021

Surface Mining Control and Reclamation Act Sites: SMCRA

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by the Office of Surface Mining Reclamation and Enforcement (OSMRE) to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of Abandoned Mine Land (AML) impacts, as well as information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Government Publication Date: Dec 18, 2020

Mineral Resource Data System: MRDS

The Mineral Resource Data System (MRDS) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS. The USGS has ceased systematic updates of the MRDS database with their focus more recently on deposits of critical minerals while providing a well-documented baseline of historical mine locations from USGS topographic maps.

Government Publication Date: Mar 15, 2006

Uranium Mill Tailings Radiation Control Act Sites: URANIUM

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

Government Publication Date: Mar 4, 2017

Alternative Fueling Stations: ALT FUELS

List of alternative fueling stations made available by the US Department of Energy's Office of Energy Efficiency & Renewable Energy. Includes Biodiesel stations, Ethanol (E85) stations, Liquefied Petroleum Gas (Propane) stations, Ethanol (E85) stations, Natural Gas stations, Hydrogen stations, and Electric Vehicle Supply Equipment (EVSE). The National Renewable Energy Laboratory (NREL) obtains information about new stations from trade media, Clean Cities coordinators, a Submit New Station form on the Station Locator website, and through collaborating with infrastructure equipment and fuel providers, original equipment manufacturers (OEMs), and industry groups.

Government Publication Date: Dec 21, 2021

Registered Pesticide Establishments: SSTS

List of active EPA-registered foreign and domestic pesticide-producing and device-producing establishments based on data from the Section Seven Tracking System (SSTS). The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Section 7 requires that facilities producing pesticides, active ingredients, or devices be registered. The list of establishments is made available by the EPA.

Government Publication Date: Apr 13, 2021

Polychlorinated Biphenyl (PCB) Notifiers: PCB

Facilities included in the national list of facilities that have notified the United States Environmental Protection Agency (EPA) of Polychlorinated Biphenyl (PCB) activities. Any company or person storing, transporting or disposing of PCBs or conducting PCB research and development must notify the EPA and receive an identification number.

Government Publication Date: Jan 20, 2022

State

Priority Ranking List: PRIORITYCLEAN

The Florida Legislature has established a state-funded program to cleanup properties that are contaminated as a result of the operations of a drycleaning facility or wholesale supply facility (Chapter 376, Florida Statutes). The program is administered by the Florida Department of Environmental Protection (FDEP). The statute was sponsored by the drycleaning industry to address environmental, economic, and liability issues resulting from drycleaning solvent contamination. The program provides limited liability protection to the owner, operator and real property owner of drycleaning or wholesale supply facilities for cleanup of drycleaning solvent contamination if the parties meet the eligibility conditions stated in the law.

Government Publication Date: Jul 14, 2021

Dry Cleaning Facilities: DRYCLEANERS

A listing of dry cleaning facilities registered with the Florida Department of Environmental Protection (FDEP). The information contains facility identification number, site location information, related party (owner) information, and facility type and status. Data is taken from the Storage Tank & Contamination Monitoring database, the registration repository of dry cleaner facility data.

Government Publication Date: Sep 23, 2021

Delisted Dry Cleaning Facilities: DELISTED DRYCLEANERS

List of sites removed from the drycleaners database made available by the Florida Department of Environmental Conservation (DEC).

Government Publication Date: Sep 23, 2021

Historical Dry Cleaners: HISTORICAL DRYC

The Florida Department of Environmental Protection (FDEP) provided this historical database of regulated and non-regulated dry cleaning facilities. These facilities were at one time tracked and registered by the FDEP OCULUS Electronic Document Management System as "drums" in the underground storage tank database.

Government Publication Date: Aug 2, 2013

Oil and Hazardous Materials Incidents: SPILLS

Statewide listing of oil and hazardous materials spills and incidents recorded by the Florida Department of Environmental Protection (FDEP).

Government Publication Date: Sep 28, 2021

Contaminated Sites: DWM CONTAM

Florida Department of Environmental Protection (FDEP) Division of Waste Management (DWM) listing of active or known sites that include sites requiring cleanup but are not actively being worked on due to the agency's lack of funding (primarily petroleum and drycleaning).

Government Publication Date: Sep 1, 2021

Delisted Contaminated Sites: DEL CONTAM SITE

List of sites which were once included on the Florida Department of Environmental Protection (FDEP) Division of Waste Management (DWM)'s Contaminated Sites list. As sites on the Contaminated Sites (CS) list are cleaned up or closed under risk based corrective action, they are removed from the CS list.

Government Publication Date: Sep 30, 2015

Aqueous Film Forming Foam (AFFF): PFAS AFFF

A list of fire fighter training facilities that use or possibly used Aqueous Film Forming Foam (AFFF). This list is made available by the Florida Department of Environmental Protection (DEP).

Government Publication Date: Aug 20, 2021

PFAS Investigation at Federal Facilities: PFAS

List of sites - including Federal Facilities - in Florida at which either a) there has been confirmed or suspected usage of Aqueous Film Forming Foam (AFFF), or b) the Division of Waste Management has identified as a potential source or environmental impact related to per- and polyfluoroalkyl substances (PFAS). The Florida Department of Environmental Protection (DEP) is committed to the protection of the groundwater resources of the state and the public health and safety of residents. The DEP will continue its efforts to investigate and understand PFAS in the environment and the ecological and human health risks associated with PFAS contamination. Listings made available by the Florida Department of Environmental Protection (DEP).
Government Publication Date: Jul 13, 2021

Underground Injection Control Wells: UIC

Class I Underground Injection Control (UIC) wells that are currently or were previously active, as well as proposed sites, regulated by the Florida Department of Environmental Protection (FDEP). Class I UIC wells are used to inject nonhazardous waste, hazardous waste (new hazardous waste wells were banned in 1983), or municipal waste below the lowermost underground source of drinking water.
Government Publication Date: Sep 27, 2021

Well Surveillance Program Facilities: WELL SURVEILLANCE

List of facilities made available by the Florida Health Well Surveillance group. The Well Surveillance group manages several programs to identify and monitor areas in Florida where contaminated drinking water is suspected and may pose a threat to public health. The section coordinates with the County Health Departments (CHDs) to locate potable wells and conduct water sampling for contaminants of concern. The Well Surveillance Section is composed of the State Underground Petroleum Environmental Response Act (SUPER Act), Drinking Water Toxics Program (Toxics), Drycleaner Solvent Cleanup Program (DSCP). Includes locations of known cattle dipping vats.
Government Publication Date: Oct 1, 2021

Cattle Dip Vats: CDV SOUTHEAST

A list of Cattle Dip Vats in Southeast Florida made available by the Florida Department of Environmental Protection.
Government Publication Date: Jan 19, 2017

Tier 2 Report: TIER 2

A list of Tier 2 facilities in the state of Florida. The list tracks the inventory of chemicals within a particular facility. This list is provided by the Florida Division of Emergency Management.
Government Publication Date: Jul 9, 2021

Delisted County Records: DELISTED COUNTY

Records removed from county databases. Records may be removed from the county lists made available by the respective county departments because they are inactive, or because they have been deemed to be below reportable thresholds.
Government Publication Date: Nov 3, 2021

Tribal

No Tribal additional environmental record sources available for this State.

County

No County additional environmental databases were selected to be included in the search.

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

APPENDIX I

Regulatory Documents

7- ELEVEN STORE #37926

Regulatory Documents

Florida Department of Environmental Protection

Contracted Local Program
3615 McCrory Place, Suite 200
Orlando, Florida 32803

Ron DeSantis
Governor

Jeanette Nunez
Lt. Governor

Noah Valenstein
Secretary

August 3, 2021

Letter will be emailed to John.Meyer@7-11.com

RE: In Compliance
7-Eleven Store #37926
1640 McCulloch Road
Oviedo, FL 32765
DEP Facility ID#: 9805292
Seminole County – Storage Tanks

To those concerned,

A routine storage tank inspection and file review was started at the above noted facility on August 3, 2021 by the Orange County Storage Tanks Program, on behalf of the Florida Department of Environmental Protection.

Based on the information provided during and following the inspection, the facility was determined to be in compliance with the Department's storage tank rules and regulations. A copy of the inspection report is attached for your records.

The Department appreciates your efforts to maintain this facility in compliance with state and federal rules. Should you have any questions or comments, please contact Matthew Kidder at 321-239-4050 or matthew.kidder@ocfl.net.

Sincerely,

Matthew Kidder
Environmental Specialist II

Enclosure

Florida Department of Environmental Protection
Twin Towers Office Bldg. 2600 Blair Stone Road, Tallahassee, Florida, 32399-2400
Division of Waste Management
Petroleum Storage Systems
Storage Tank Facility Routine Compliance Site Inspection Report

Facility Information:

Facility ID: 9805292 County: SEMINOLE Inspection Date:08/03/2021
Facility Type: A - Retail Station
Facility Name: 7-ELEVEN STORE #37926 # of inspected ASTs: 0
1640 MCCULLOCH RD USTs: 2
OVIEDO, FL 32765 Mineral Acid Tanks: 0
Latitude: 28° 36' 44.9937"
Longitude: 81° 11' 29.5133"
LL Method: DPHO

Inspection Result:

Result: In Compliance

Signatures:

TKOREP - ORANGE CNTY ENVIRONMENTAL PROTECTION DIVISION (407) 836-1499

Storage Tank Program Office and Phone Number

Matthew S Kidder

Inspector Name



Inspector Signature
Principal Inspector
ORANGE CNTY ENVIRONMENTAL PROTECTION DIVISION

Juan Borrero

Representative Name



Representative Signature
Field Inspector
MVI

Owners of UST facilities are reminded that the Federal Energy Policy Act of 2005 and 40 CFR 280 Subpart J requires Operator Training at all facilities by October 13, 2018. For further information please visit: https://floridadep.gov/waste/permitting-compliance-assistance/content/underground-storage-tank-operator-training

Financial Responsibility:

Financial Responsibility: INSURANCE

Insurance Carrier: IRONSHORE SPECIALTY INSURANCE CO

Effective Date: 12/18/2020 Expiration Date: 12/18/2021

Findings:
Class A Owner Training Certificates are present.
Class B Maintenance Training Certificates are present.
Class C Operator Training Certificates are present.

Completed System Tests

Type	Date Completed	Results	Reviewed	Next Due Date	Comment
Integrity Test - Double-walled Spill Bucket	07/27/2021	Passed	08/03/2021	07/27/2024	2 DW SBs
Integrity Test - STP Sump	07/27/2021	Passed	08/03/2021	07/27/2024	2 STP Sumps
Annual Operability - Line Leak Detector	09/10/2020	Passed	06/15/2021	09/10/2021	2 LLDs
Annual Operability - Release Detection	09/10/2020	Passed	06/15/2021	09/10/2021	Veeder Root Cert
Annual Operability - Overfill Protection	09/10/2020	Passed	06/15/2021	09/10/2021	2 Flapper Valves
Integrity Test - Dispenser Sump	07/27/2021	Passed	08/03/2021	07/27/2024	6 UDCs

Reviewed Records

Record Category	Record type	From Date	To Date	Reviewed Record Comment
Three Years	Certificate of Financial Responsiblity	12/18/2019	08/03/2021	
Three Years	Monthly Maint. Visual Examinations and Results	06/25/2018	08/03/2021	MVI Field Services

Site Visit Comments

08/03/2021
Report will be emailed to John.Meyer@7-11.com.

On site for a routine compliance inspection with MVI representative Juan Borrero.

Facility uses two double walled underground storage tanks (UST) for retail purposes.
Tank #1 contains regular unleaded (RUL).
Tank #2 contains premium unleaded (PUL).
USTs' annular spaces are electronically monitored for releases.
Liquid level status was "Normal" for each UST.

Facility has two submersible turbine pump (STP) sumps.
STP sumps have sensors for release detection.
Liquid level status was "Normal" during the inspection.
Sumps were mostly dry, and clean.
Entry boots, conduits, STP heads, and sensors were in good condition.

Facility has two double walled spill bucket fill ports.

Spill buckets have sensors for release detection.
Liquid level statues was "Normal" for each spill bucket.
Spill buckets were mostly dry, and clean.
Drop tubes have flapper valves for overfill protection.

Facility has six under dispenser containments (UDC).
UDCs were mostly dry, and clean.
Entry boots, shear valves, conduits, hoses and break away connections were in good condition.

Two years of facility records were reviewed via MyTitan.
A/B/C operator training certificates were reviewed.
Current placard license has been posted inside the store.

Inspection Photos

Added Date 08/03/2021

Site Photo



Florida Department of Environmental Protection

Contracted Local Program
3615 McCrory Place, Suite 200
Orlando, Florida 32803

Rick Scott
Governor

Carlos Lopez-Cantera
Lt. Governor

Noah Valenstein
Secretary

November 19, 2018

Cathy Wise
7-Eleven, Inc.
P.O. Box 711
Dallas, TX 75221
Letter issued via email: cathy.wise@7-11.com

RE: **Closure Report**
Seminole County – Regulated Storage Tanks
7-Eleven Store #37926
1640 McCulloch Rd.
Oviedo, FL 32765
FDEP Facility ID#: 59/9805292

Dear Ms. Wise:

The Orange County Environmental Protection Division (Division) is contracted with the Florida Department of Environmental Protection (Department) to conduct the Storage Tank System Compliance Verification Program for facilities located in Seminole County.

Division staff completed review of the *Closure Report* dated October 10, 2018, prepared by your consultant, APTIM, documenting the closure activities at the subject facility in August and September 2018. The report appears to meet the requirements of Chapter 62-761, Florida Administrative Code (F.A.C.), and no further assessment is necessary at this time.

Please note that the report is not equivalent to a full Chapter 62-780, F.A.C., Site Assessment, and the site will not be issued a formal No Further Action Order. Also, this letter does not certify that the entire site is clean and the Department reserves the right to initiate appropriate actions for this site under Chapter 62-780, F.A.C.

Sincerely,

Ruth Rauenzahn
Environmental Program Supervisor

David Press, P.G.
Team Leader, Petroleum Restoration

RR/RP:rr

C: Brett Bohentin, APTIM, brett.bohentin@aptim.com

APTIM
5725 NW 159th Street
Miami Lakes, Florida 33014
www.aptim.com

October 10, 2018

Ms. Ruth Rauenzahn
Orange County Environmental Protection Division
3165 McCrory Place, Suite 200
Orlando, Florida 32803

Re: Closure Report
7-Eleven Store No. 37926
1640 E. McCulloch Road
Oviedo, Seminole County, Florida 32765
FDEP Facility ID No. 59/9805292

Dear Ms. Rauenzahn,

APTIM Environmental & Infrastructure, Inc. (APTIM), on behalf of 7-Eleven, Inc. (7-Eleven), hereby submits this Closure Report for the 7-Eleven Store No. 37926 located at 1640 E. McCulloch Road, Oviedo, Seminole County, Florida 32765.

In August and September 2018, the overspill buckets (OSB) and submersible turbine pumps (STP) at one (1) 15,000-gallon capacity unleaded underground storage tank (UST) and one (1) 12,000-gallon capacity unleaded UST, the underground dispenser containments (UDC) at six (6) dispensers, and associated product piping were removed by Wilson's Petroleum Equipment, Inc. (Wilson's) at the above referenced facility. The replacement of the OSBs, STPs, UDCs, and product piping were completed as part of facility upgrade activities.

A Site Map depicting the location of current USTs, property boundaries, and other pertinent site features is included as **Figure 1**. A copy of the Underground Storage System Installation and Removal Form for Certified Contractors is provided in **Attachment A**.

Dispenser UDC Closure Sampling

On August 9, 2018, APTIM collected soil samples at 2 foot (ft) intervals to a total depth of 3 feet below land surface (ft bls) at each dispenser island excavation (Dispenser 1/2, Dispenser 3/4, Dispenser 5/6, Dispenser 7/8, Dispenser 9/10, and Dispenser 11/12). The water table was encountered at approximately three (3) feet below land surface (ft bls). Eight-ounce grab soil samples were collected, placed in clean 16-ounce jars, and allowed to equilibrate for approximately five minutes. Following equilibration, the headspace in each glass jar was screened for the presence of organic vapors using a PhoCheck Tiger Organic Vapor Analyzer equipped with a Photo Ionization Detector (OVA/PID) in accordance with Rule 62-780.200(17), Florida Administrative Code (FAC). The OVA/PID was calibrated on-site to 100 parts per million (ppm) isobutylene and zero gas sources. OVA/PID readings ranged from 0.0 to 23.0 ppm. The OVA/PID readings from the August 9, 2018, dispenser UDC closure sampling activities are provided in **Table 1** and are illustrated on **Figure 2**.

On August 9, 2018, APTIM collected a total of six (6) soil samples (Dispenser 1/2@3 ft, Dispenser 3/4@3 ft, Dispenser 5/6 ft, Dispenser 7/8@3 ft, Dispenser 9/10@3 ft, and Dispenser 11/12@3 ft) for laboratory analysis. The soil samples were submitted to TestAmerica Laboratories, Inc. (TestAmerica) in Tampa, Florida (Florida Department of Health No. E84282), for analysis using the United States Environmental Protection Agency (EPA) Methods 8260B for Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) including Methyl-tert-butyl-ether (MTBE), 8270D for Polynuclear Aromatic Hydrocarbons (PAH), and for Total Recoverable Petroleum Hydrocarbons (TRPH) using the Florida Petroleum Residual Organics (FL-PRO) Method.

A review of the laboratory analytical reports indicates contaminant concentrations below the Soil Cleanup Target Levels (SCTL) for Leachability Based on Groundwater Criteria and Direct Exposure Residential in all soil samples analyzed.

A Soil Data Summary is provided in **Table 1** and is illustrated on **Figure 3**. Copies of the OVA Calibration Log, Soil Laboratory Analytical Report, Soil Quality Assurance/Quality Control (QA/QC) Report, and Soil Chain-of-Custody Documentation are provided in **Attachment B**.

Product Piping Closure Sampling

On August 9, 2018, APTIM advanced six (6) soil borings (PP-1 through PP-3) along the product piping run. APTIM collected soil samples at 2 ft intervals to 3 ft bls. The product piping was encountered at 2 ft bls. Eight-ounce grab soil samples were collected, placed in clean 16-ounce jars, and allowed to equilibrate for approximately five minutes. Following equilibration, the headspace in each glass jar was screened for the presence of organic vapors using a PhoCheck Tiger OVA/PID in accordance with Rule 62-780.200(17), FAC. The OVA/PID was calibrated on-site to 100 ppm isobutylene and zero gas sources. The OVA/PID readings ranged from 0.0 to 13.0 ppm. The OVA/PID readings from the August 9, 2018, product piping closure sampling activities are provided in **Table 1** and are illustrated on **Figure 4**.

Due to no significant OVA/PID readings during the screening of soil samples collected along the product piping run, APTIM did not collect a soil sample for laboratory analysis.

Overspill Bucket Closure Sampling

On August 9 and 10, 2018, APTIM collected a total of twenty-four (24) soil samples at the OSB excavations of one (1) 15,000-gallon capacity unleaded UST and one (1) 12,000-gallon capacity unleaded UST. Soil samples were collected at 1 ft intervals to 3 ft bls. The water table was encountered at three (3) ft bls. Eight-ounce grab soil samples were collected, placed in clean 16-ounce jars, and allowed to equilibrate for approximately five minutes. Following equilibration, the headspace in each glass jar was screened for the presence of organic vapors using a PhoCheck Tiger OVA/PID in accordance with Rule 62-780.200(17), FAC. The OVA/PID was calibrated on-site to 100 ppm isobutylene and zero gas sources. OVA/PID readings ranged from 0.0 to 1,729 ppm during the soil screening activities. OVA/PID readings from the August 9 and 10, 2018, OSB closure sampling activities are provided in **Table 1** and are illustrated on **Figure 5**.

On August 10, 2018, APTIM collected a total of two (2) soil samples (OSB-1 North @ 2 ft and OSB-2 South @ 2.5 ft) for laboratory analysis. The soil samples were submitted to TestAmerica in Tampa, Florida, for analysis using EPA Methods 8260B for BTEX including MTBE, 8270D for PAH, and for TRPH using the FL-PRO Method.

A review of the laboratory analytical report indicates contaminant concentrations above the SCTLs for Leachability Based on Groundwater Criteria, Direct Exposure Residential, and/or Direct Exposure Commercial/Industrial in soil sample OSB-1 North @ 2 ft (BTEX, MTBE, Naphthalene, 1-Methyl-Naphthalene, and 2-Methyl-Naphthalene). Contaminant concentrations were reported below the SCTLs for Leachability Based on Groundwater Criteria and Direct Exposure Residential in soil sample OSB-2 South @ 2.5 ft.

During the UST system upgrade activities, Wilson's removed all soil within the UST area vertically to the top of the USTs and the width of the UST system. To confirm all impacted soil was removed adjacent to OSB-1, APTI collected two (2) sidewall samples (West Wall @ 2 ft and North Wall @ 2 ft) from the sidewalls of the UST excavation on August 20, 2018. The soil samples were submitted to TestAmerica in Tampa, Florida for analysis using EPA Methods 8260B BTEX including MTBE and 8270D for PAH.

A review of the laboratory analytical report indicates contaminant concentrations below the SCTLs for Leachability Based on Groundwater Criteria and Direct Exposure Residential in both soil samples collected, indicating all petroleum impacted soil was removed from the UST excavation.

A Soil Data Summary is provided in **Table 1** and is illustrated on **Figure 6**. Copies of the OVA Calibration Log, Soil Laboratory Analytical Report, Soil QA/QC Report, and Soil Chain-of-Custody Documentation is provided in **Attachment B**.

On August 10, 2018, APTIM collected a groundwater sample from one (1) existing monitoring well (MW-South) located adjacent to the UST excavation. The groundwater sample was collected in accordance with the Florida Department of Environmental Protection (FDEP) Sampling Standard Operating Procedure (SOP) and was submitted to TestAmerica in Tampa, Florida, for analysis using EPA Methods 8260 for Volatile Organic Aromatics/Volatile Organic Hydrocarbons, 8270D for PAH, 504.1 for Ethylene Dibromide (EDB), and for TRPH using the FL-PRO Method. Since the facility has not sold leaded gasoline, and turbidity was above 29 NTUs at the time of sampling, lead analysis was not performed on

A review of the laboratory analytical report indicates contaminant concentrations below the Groundwater Cleanup Target Levels (GCTL) in monitoring well MW-South.

A Groundwater Analytical Data Summary is provided in **Table 2** and is illustrated on **Figure 7**. Copies of the FDEP Groundwater Sampling Log, YSI Calibration Sheet, Groundwater Laboratory Analytical Report, Groundwater QA/QC Report, and Groundwater Chain-of-Custody Documentation are provided in **Attachment B**.

Submersible Turbine Pump Closure Sampling

On August 10, 2018, APTIM collected a total of twenty-four (24) soil samples at the STP excavations of one (1) 15,000-gallon capacity unleaded UST and one (1) 12,000-gallon capacity unleaded UST. Soil samples were collected at 1 ft intervals to 3 ft bls. The water table was encountered at three (3) ft bls. Eight-ounce grab soil samples were collected, placed in clean 16-ounce jars, and allowed to equilibrate for approximately five minutes. Following equilibration, the headspace in each glass jar was screened for the presence of organic vapors using a PhoCheck Tiger OVA/PID in accordance with Rule 62-780.200(17), FAC. The OVA/PID was calibrated on-site to 100 ppm isobutylene and zero gas sources. OVA/PID readings ranged from 0.0 to 24.0 ppm. OVA/PID readings from the August 10, 2018, STP closure sampling activities are provided in **Table 1** and are illustrated on **Figure 8**.

On August 10, 2018, APTIM collected a total of two (2) soil samples (STP-1 South @ 2 ft and STP-2 South @ 2 ft) for laboratory analysis. The soil samples were submitted to TestAmerica in Tampa, Florida, for analysis using EPA Methods 8260B for BTEX including MTBE, 8270D for PAH, and for TRPH using the FL-PRO Method.

A review of the laboratory analytical report indicates contaminant concentrations below the SCTLs for Leachability Based on Groundwater Criteria and Direct Exposure Residential in all soil samples analyzed.

A Soil Data Summary is provided in **Table 1** and is illustrated on **Figure 9**. Copies of the OVA Calibration Log, Soil Laboratory Analytical Report, Soil QA/QC Report, and Soil Chain-of-Custody Documentation is provided in **Attachment B**.

Soil Excavation, Disposal, and Backfilling

During the site upgrade activities, a total of 142.21 tons of petroleum impacted soil was removed from the site. A total of 112.82 tons of clean fill (pea gravel) was used to backfill the UST excavation. The difference between the backfill tonnage and the disposal tonnage is attributed to the lithology of the excavation consisting of natural sands and limerock fragments. Copies of the Non-Hazardous Waste Disposal Manifests, Landfill Weigh Tickets, and Clean Fill Weigh Tickets are provided in **Attachment C**.

Conclusions and Recommendations

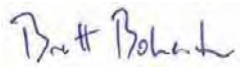
Contaminant concentrations were reported above the SCTLs for Leachability Based on Groundwater Criteria, Direct Exposure Residential, and/or Direct Exposure Commercial/Industrial in soil sample OSB-1 North @ 2 ft. Soil sampling of the UST excavation sidewalls indicated all petroleum impacted soil in the UST excavation was removed as part of the facility upgrades. Contaminant concentrations were reported below the SCTLs for Leachability Based on groundwater Criteria and Direct Exposure Residential in all other soil samples collected as part of the OSB, STP, and UDC closure sampling activities. In addition, contaminant concentrations were reported below the GCTL in a groundwater sample collected from an on-site monitoring well.

APTIM, on behalf of 7-Eleven, Inc., recommends no further environmental action.

APTIM appreciates Orange County's assistance with this matter. In the event revisions or clarifications are necessary, please contact me at (813) 612-3609 or brett.bohentin@aptim.com.

Sincerely,

APTIM ENVIRONMENTAL & INFRASTRUCTURE, INC.



Brett Bohentin
Project Manager

Attachments
Tables
Figures
Attachment A – Underground Storage System Installation and Removal Form for Certified Contractors
Attachment B – FDEP Groundwater Sampling Log, OVA and YSI Calibration Sheets, Soil and Groundwater Laboratory Analytical Reports, Soil and Groundwater Quality Assurance/Quality Control Reports, and Soil and Groundwater Chain-of-Custody Documentation
Attachment C – Non-Hazardous Waste Disposal Manifests, Landfill Weigh Tickets, and Clean Fill Tickets

cc: Mr. Jose Rios, 7-Eleven, Inc. (Irving, TX)
Ms. Jennifer Dart, CB&I (Dallas, TX)

TABLES

TABLE 1: SOIL DATA SUMMARY

Name: 7-Eleven Store No. 37926 FDEP Facility ID No. 59/9805292

	Sample			OVA Screening Results				Laboratory Analysis (mg/kg)																						
ID Number	Date	Approx. Depth to Water (feet)	Sample Interval (ft bls)	Total Reading (ppm)	Carbon Filtered (ppm)	Net Reading (ppm)	Sample ID No. Laboratory ID in BOLD	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	TRPH	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i) perylene	Fluorene	Fluoranthene	Naphthalene	1-Methyl-naphthalene	2-Methyl-naphthalene	Pyrene	Phenanthrene	Benzo(a)pyrene Equivalent	Benzo(a)pyrene	Benzo(a) anthracene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenzo(a,h) anthracene	Indeno(1,2,3-cd) pyrene
Toxic Equivalency Factor								N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	0.1	0.1	0.01	0.001	1	0.1
SCTLs - Direct Exposure Commercial/Industrial								1.7	60,000	9,200	700	24,000	2,700	20,000	20,000	300,000	52,000	33,000	59,000	300	1,800	2,100	45,000	36,000	0.7	0.7	*	*	*	*	*	*
SCTLs - Direct Exposure Residental								1.2	7,500	1,500	130	4,400	460	2,400	1,800	21,000	2,500	2,600	3,200	55	200	210	2,400	2,200	0.1	0.1	*	*	*	*	*	*
SCTLs - Leachability Based on Groundwater Criteria								0.007	0.5	0.6	0.2	0.09	340	2.1	27	2,500	32,000	160	1,200	1.2	3.1	8.5	880	250	8	8	0.8	2.4	24	77	1	7
Overspill Bucket Sampling																																
UST-1	08/10/18	3	North - 0-1	1,644	-	1,644																										
			North - 1-2	1,729	-	1,729	**OSB-1 North @ 2 ft**	**6.68 U**	**21.0 (I)**	**29.5**	**201**	**3.27 U**	296	0.221 (I)	0.120 (I)	0.110 (I)	0.0859 U	0.194 (I)	0.0592 U	**32.100**	**20.800**	**39.400**	0.0833 U	0.208 (I)	0.0	0.0848 U	0.0791 U	0.0843 U	0.0969 U	0.0817 U	0.0848 U	0.0791 U
			North - 2-3	1,649	-	1,649																										
			South - 0-1	980.0	-	980.0																										
			South - 1-2	1,007	-	1,007																										
			South - 2-3	1,000	-	1,000																										
			East - 0-1	980.0	-	980.0																										
			East - 1-2	1,571	-	1,571																										
			East - 2-3	903.0	-	903.0																										
			West - 0-1	1,304	-	1,304																										
			West - 1-2	1,411	-	1,411																										
			West - 2-3	1,702	-	1,702																										
West Wall @ 2 ft	08/20/18	3	2 ft	0.0	-	0.0	**West Wall @ 2 ft**	0.00319 U	0.00368 U	0.00279 U	0.00270 U	0.00152 U		0.00150 U	0.00154 U	0.000643 U	0.00172 U	0.00324 (I, V)	0.00574 (I, V)	0.00778 (I)	0.00423 (I)	0.00749 (I)	0.00167 U	0.0220 (V)	0.0	0.00170 U	0.00159 U	0.00169 U	0.00195 U	0.00164 U	0.00170 U	0.00159 U
North Wall @ 2 ft	08/20/18	3	2 ft	0.0	-	0.0	**North Wall @ 2 ft**	0.00324 U	0.00374 U	0.00284 U	0.00274 U	0.00154 U		0.00151 U	0.00154 U	0.000646 U	0.00174 U	0.00152 U	0.00205 (I, V)	0.00332 U	0.00183 U	0.00318 U	0.00168 U	0.00816 (I, V)	0.0	0.00171 U	0.00160 U	0.00170 U	0.00196 U	0.00165 U	0.00171 U	0.00160 U
UST-2	08/09/18	3	North - 0-1	0.0	-	0.0																										
			North - 1-2	0.0	-	0.0																										
			North - 2-3	0.0	-	0.0																										
			South - 0-1	0.0	-	0.0																										
			South - 1-2	0.0	-	0.0																										
			South - 2-3	0.0	-	0.0	**OSB-2 South @ 2.5 ft**	0.00319 U	0.00369 U	0.00280 U	0.00270 U	0.00152 U	3.20 U	0.00156 U	0.00159 U	0.000665 U	0.00179 U	0.00157 U	0.00123 U	0.0359 U	0.0117	0.0222	0.00173 U	0.00572 (I)	0.0	0.00176 U	0.00164 U	0.00175 U	0.00201 U	0.00170 U	0.00176 U	0.00164 U
			East - 0-1	0.0	-	0.0																										
			East - 1-2	0.0	-	0.0																										
			East - 2-3	0.0	-	0.0																										
			West - 0-1	0.0	-	0.0																										
			West - 1-2	0.0	-	0.0																										
			West - 2-3	0.0	-	0.0																										

TABLE 1: SOIL DATA SUMMARY

Name: 7-Eleven Store No. 37926 FDEP Facility ID No. 59/9805292

	Sample			OVA Screening Results				Laboratory Analysis (mg/kg)																					
ID Number	Date	Approx. Depth to Water (feet)	Sample Interval (ft bls)	Total Reading (ppm)	Carbon Filtered (ppm)	Net Reading (ppm)	Sample ID No. Laboratory ID in BOLD	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	TRPH	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i) perylene	Fluorene	Fluoranthene	Naphthalene	1-Methyl-naphthalene	2-Methyl-naphthalene	Pyrene	Phenanthrene	Benzo(a)pyrene Equivalent	Benzo(a)pyrene	Benzo(a) anthracene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenzo(a,h) anthracene	Indeno(1,2,3-cd) pyrene
Toxic Equivalency Factor								N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	0.1	0.1	0.01	0.001	1	0.1
SCTLs - Direct Exposure Commercial/Industrial								1.7	60,000	9,200	700	24,000	2,700	20,000	20,000	300,000	52,000	33,000	59,000	300	1,800	2,100	45,000	36,000	0.7	0.7	*	*	*	*	*	*
SCTLs - Direct Exposure Residental								1.2	7,500	1,500	130	4,400	460	2,400	1,800	21,000	2,500	2,600	3,200	55	200	210	2,400	2,200	0.1	0.1	*	*	*	*	*	*
SCTLs - Leachability Based on Groundwater Criteria								0.007	0.5	0.6	0.2	0.09	340	2.1	27	2,500	32,000	160	1,200	1.2	3.1	8.5	880	250	8	8	0.8	2.4	24	77	1	7
Submersible Turbine Pump Sampling																																
UST-1	08/10/18	3	North - 0-1	24.0	-	24.0																										
			North - 1-2	23.0	-	23.0																										
			North - 2-3	10.0	-	10.0																										
			South - 0-1	15.0	-	15.0																										
			South - 1-2	24.0	-	24.0	**STP-1 South @ 2 ft**	0.00320 U	0.00369 U	0.00280 U	0.00270 U	0.00152 U	3.83 (I)	0.00165 U	0.00168 U	0.000705 U	0.00189 U	0.00166 U	0.00130 U	0.00362 U	0.00214 (I)	0.00404 (I)	0.00183 U	0.00636 (I)	0.0	0.00187 U	0.00174 U	0.00186 U	0.00213 U	0.00180 U	0.00187 U	0.00174 U
			South - 2-3	10.0	-	10.0																										
			East - 0-1	0.0	-	0.0																										
			East - 1-2	0.0	-	0.0																										
			East - 2-3	0.0	-	0.0																										
			West - 0-1	0.0	-	0.0																										
			West - 1-2	0.0	-	0.0																										
			West - 2-3	0.0	-	0.0																										
UST-2	08/10/18	3	North - 0-1	7.0	-	7.0																										
			North - 1-2	14.0	-	14.0																										
			North - 2-3	10.0	-	10.0																										
			South - 0-1	8.0	-	8.0																										
			South - 1-2	19.0	-	19.0	**STP-2 South @ 2 ft**	0.00357 U	0.00412 U	0.00313 U	0.00302 U	0.00170 U	3.21 (I)	0.00156 U	0.00159 U	0.000667 U	0.00179 U	0.00157 U	0.00123 U	0.00343 U	0.00189 U	0.00329 U	0.00174 U	0.00590 (I)	0.0	0.00177 U	0.00165 U	0.00176 U	0.00202 U	0.00170 U	0.00177 U	0.00165 U
			South - 2-3	10.0	-	10.0																										
			East - 0-1	0.0	-	0.0																										
			East - 1-2	0.0	-	0.0																										
			East - 2-3	0.0	-	0.0																										
			West - 0-1	0.0	-	0.0																										
			West - 1-2	0.0	-	0.0																										
			West - 2-3	0.0	-	0.0																										

TABLE 1: SOIL DATA SUMMARY

Name: 7-Eleven Store No. 37926 FDEP Facility ID No. 59/9805292

	Sample			OVA Screening Results				Laboratory Analysis (mg/kg)																					
ID Number	Date	Approx. Depth to Water (feet)	Sample Interval (ft bls)	Total Reading (ppm)	Carbon Filtered (ppm)	Net Reading (ppm)	Sample ID No. Laboratory ID in BOLD	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	TRPH	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i) perylene	Fluorene	Fluoranthene	Naphthalene	1-Methyl-naphthalene	2-Methyl-naphthalene	Pyrene	Phenanthrene	Benzo(a)pyrene Equivalent	Benzo(a)pyrene	Benzo(a) anthracene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenzo(a,h) anthracene	Indeno(1,2,3-cd) pyrene
Toxic Equivalency Factor								N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	0.1	0.1	0.01	0.001	1	0.1
SCTLs - Direct Exposure Commercial/Industrial								1.7	60,000	9,200	700	24,000	2,700	20,000	20,000	300,000	52,000	33,000	59,000	300	1,800	2,100	45,000	36,000	0.7	0.7	*	*	*	*	*	*
SCTLs - Direct Exposure Residental								1.2	7,500	1,500	130	4,400	460	2,400	1,800	21,000	2,500	2,600	3,200	55	200	210	2,400	2,200	0.1	0.1	*	*	*	*	*	*
SCTLs - Leachability Based on Groundwater Criteria								0.007	0.5	0.6	0.2	0.09	340	2.1	27	2,500	32,000	160	1,200	1.2	3.1	8.5	880	250	8	8	0.8	2.4	24	77	1	7
Dispenser UDC Sampling																																
Dispenser 1/2	09/05/18	1/3/1900	0-2	0.0	-	0.0																										
			2-3	0.0	-	0.0	**Dispenser 1/2@3 ft**	0.00315	0.00364 U	0.00315 U	0.00266 U	0.00150 U	9.47 (I)	0.00168 U	0.00172 U	0.000720 U	0.00193 U	0.00180 (I)	0.00484 (I)	0.00370 U	0.00204 U	0.00355 U	0.00286 (I)	0.00112 (I, V)	0.0	0.00191 U	0.00178 U	0.00190 U	0.00218 U	0.00184 U	0.00191 U	0.00178 U
Dispenser 3/4	09/05/18	3	0-2	0.0	-	0.0																										
			2-3	0.0	-	0.0	**Dispenser 3/4@3 ft**	0.00357 U	0.00413 U	0.00313 U	0.00302 U	0.00170 U	11.4 (I)	0.00169 U	0.00172 U	0.000720 U	0.00193 U	0.00170 U	0.00336 (I)	0.00389 (I)	0.00204 U	0.00425 (I)	0.00187 U	0.0113 (I, V)	0.0	0.00191 U	0.00178 U	0.00190 U	0.00218 U	0.00184 U	0.00191 U	0.00215 (I)
Dispenser 5/6	09/05/18	3	0-2	14.0	-	14.0																										
			2-3	23.0	-	23.0	**Dispenser 5/6@3 ft**	0.00336 U	0.00388 U	0.00294 U	0.0103 (I)	0.00160 U	9.08 (I)	0.00169 U	0.00173 U	0.000723 U	0.00194 U	0.00170 U	0.00134 U	0.00372 U	0.00205 U	0.00356 U	0.00188 U	0.00978 (I, V)	0.0	0.00192 U	0.00179 U	0.00191 U	0.00219 U	0.00185 U	0.00192 U	0.00179 U
Dispenser 7/8	09/05/18	3	0-2	0.0	-	0.0																										
			2-3	0.0	-	0.0	**Dispenser 7/8@3 ft**	0.00405 U	0.00468 U	0.00355 U	0.00343 U	0.00193 U	20.0	0.00215 U	0.00219 U	0.000917 U	0.00246 U	0.00216 U	0.00362 (I)	0.00471 U	0.00260 U	0.00452 U	0.00239 U	0.00740 (I, V)	0.0	0.00243 U	0.00227 U	0.00242 U	0.00278 U	0.00234 U	0.00243 U	0.00252 (I)
Dispenser 9/10	09/05/18	3	0-2	0.0	-	0.0																										
			2-3	0.0	-	0.0	**Dispenser 9/10@3 ft**	0.00310 U	0.00358 U	0.00271 U	0.00262 U	0.00147 U	10.7 (I)	0.00168 U	0.00172 U	0.000719 U	0.00193 U	0.00169 U	0.00133 U	0.00370 U	0.00204 U	0.00354 U	0.00187 U	0.00422 (I, V)	0.0	0.00191 U	0.00178 U	0.00190 U	0.00218 U	0.00184 U	0.00191 U	0.00178 U
Dispenser 11/12	09/05/18	3	0-2	11.0	-	11.0																										
			2-3	12.0	-	12.0	**Dispenser 11/12@3 ft**	0.00349 U	0.00403 U	0.00305 U	0.00295 U	0.00166 U	4.08 (I)	0.00171 U	0.00174 U	0.000729 U	0.00196 U	0.00172 U	0.00620 (I)	0.00375 U	0.00206 (I)	0.00359 U	0.00455 (I)	0.00354 U	0.0	0.00193 U	0.00180 U	0.00192 U	0.00221 U	0.00186 U	0.00193 U	0.00180 U

TABLE 1: SOIL DATA SUMMARY

Name: 7-Eleven Store No. 37926 FDEP Facility ID No. 59/9805292

	Sample			OVA Screening Results				Laboratory Analysis (mg/kg)																							
ID Number	Date	Approx. Depth to Water (feet)	Sample Interval (ft bls)	Total Reading (ppm)	Carbon Filtered (ppm)	Net Reading (ppm)	Sample ID No. Laboratory ID in BOLD	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	TRPH	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i) perylene	Fluorene	Fluoranthene	Naphthalene	1-Methyl-naphthalene	2-Methyl-naphthalene	Pyrene	Phenanthrene	Benzo(a)pyrene Equivalent	Benzo(a)pyrene	Benzo(a) anthracene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenzo(a,h) anthracene	Indeno(1,2,3-cd) pyrene
Toxic Equivalency Factor								N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	0.1	0.1	0.01	0.001	1	0.1
SCTLs - Direct Exposure Commercial/Industrial								1.7	60,000	9,200	700	24,000	2,700	20,000	20,000	300,000	52,000	33,000	59,000	300	1,800	2,100	45,000	36,000	0.7	0.7	*	*	*	*	*	*
SCTLs - Direct Exposure Residental								1.2	7,500	1,500	130	4,400	460	2,400	1,800	21,000	2,500	2,600	3,200	55	200	210	2,400	2,200	0.1	0.1	*	*	*	*	*	*
SCTLs - Leachability Based on Groundwater Criteria								0.007	0.5	0.6	0.2	0.09	340	2.1	27	2,500	32,000	160	1,200	1.2	3.1	8.5	880	250	8	8	0.8	2.4	24	77	1	7
Product Piping Sampling																																
PP-1	09/05/18	3	0-2	0.0	-	0.0																										
			2-3	0.0	-	0.0																										
PP-2	09/05/18	4	0-2	0.0	-	0.0																										
			2-3	0.0	-	0.0																										
PP-3	09/05/18	4	0-2	0.0	-	0.0																										
			2-3	0.0	-	0.0																										
PP-4	09/05/18	4	0-2	13.0	-	13.0																										
			2-3	8.0	-	8.0																										
PP-5	09/05/18	4	0-2	3.0	-	3.0																										
			2-3	4.0	-	4.0																										
PP-6	09/05/18	4	0-2	0.0	-	0.0																										
			2-3	0.0	-	0.0																										

Notes: SCTLs = Soil Cleanup Target Levels per Chapter 62-777, Table II, Florida Administrative Code
ft bls = feet below land surface
mg/kg = milligrams per kilogram
BOLD = SCTL for Leachability Based on Groundwater Criteria exceedence
BOLD and Shaded = SCTL for Direct Exposure Residential exceedence
BOLD and Shaded = SCTL for Direct Exposure Commercial/Industrial exceedence
MTBE = methyl tertiary butyl ether
U = analyzed for but not detected
(I) = value is between method detection limit and the practical quantitation limit
J3 = Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria
V = indicates the analyte was detected at or above the method detection limit in both the sample and the associated method blank and the value of 10 times the black value was equal to or greater than the associated sample value
ppm = parts per million
TRPH = total recoverable petroleum hydrocarbons
Blank = No data or not analyzed for that specific parameter.
* = Toxic Equivalency Factor as taken from the February 2005 Final Technical Report: Development of Cleanup Target Levels (CTLs) *for Chapter 62-777, F.A.C.* If the analyte was not detected half the reporting limit is listed.

Benzo(a)pyrene Conversion Table

Site Name:	7-Eleven Store No. 37926
Location:	Oviedo, Seminole County
Facility ID No.:	59/9805292
Soil Sample No.	Dispenser 3/4@3 ft
Sample Date	8/9/2018
Location:	Dispenser 3/4
Depth (ft):	2-3'

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents only if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J" or "M" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria: if quantified with certainty enter the reported value; if not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value; if detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value; if detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value; if detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.001	1.0	0.001
Benzo(a)anthracene	0.001	0.1	0.000
Benzo(b)fluoranthene	0.001	0.1	0.000
Benzo(k)fluoranthene	0.001	0.01	0.000
Chrysene	0.001	0.001	0.000
Dibenz(a,h)anthracene	0.001	1.0	0.001
Indeno(1,2,3-cd)pyrene	0.002	0.1	0.000

DE Residential SCTL = 0.1 mg/kg; Total Benzo(a)pyrene Equivalents = 0.0

The concentration shown does not exceed the Direct Exposure Residential SCTL.

Benzo(a)pyrene Conversion Table

Site Name:	7-Eleven Store No. 37926
Location:	Oviedo, Seminole County
Facility ID No.:	59/9805292
Soil Sample No.	Dispenser 7/8@3 ft
Sample Date	8/9/2018
Location:	Dispenser 7/8
Depth (ft):	2-3'

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents only if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J" or "M" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria: if quantified with certainty enter the reported value; if not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value; if detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value; if detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value; if detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.001	1.0	0.001
Benzo(a)anthracene	0.001	0.1	0.000
Benzo(b)fluoranthene	0.001	0.1	0.000
Benzo(k)fluoranthene	0.001	0.01	0.000
Chrysene	0.001	0.001	0.000
Dibenz(a,h)anthracene	0.001	1.0	0.001
Indeno(1,2,3-cd)pyrene	0.003	0.1	0.000

DE Residential SCTL = 0.1 mg/kg; Total Benzo(a)pyrene Equivalents = 0.0

The concentration shown does not exceed the Direct Exposure Residential SCTL.

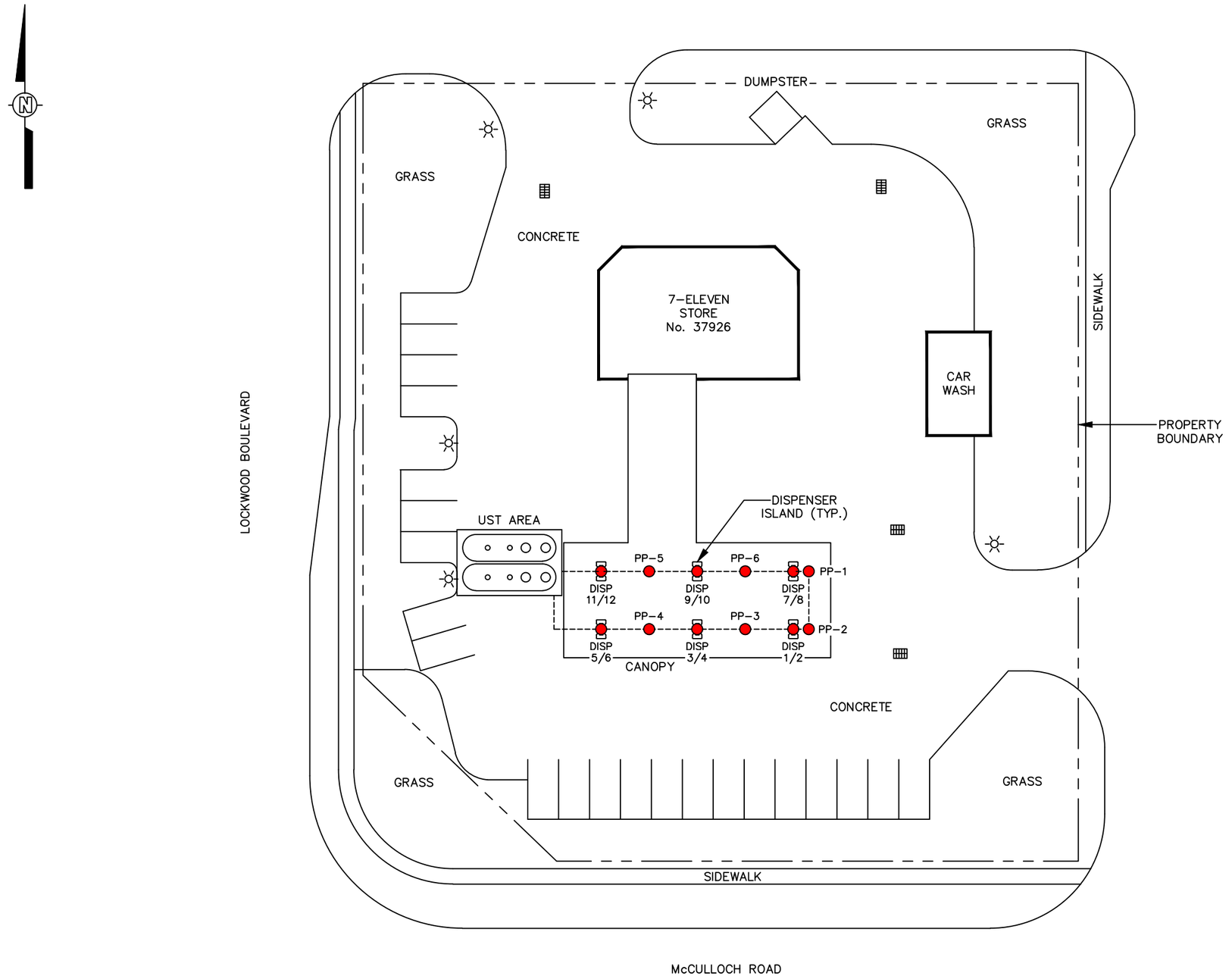
TABLE 2: GROUNDWATER ANALYTICAL DATA SUMMARY

Name: 7-Eleven Store No. 37926 FDEP Facility ID No. 59/9805292

Sample		Laboratory Analysis (µg/L)																										
ID Number	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Isopropylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Ethylene Dibromide (EDB)	TRPH	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd) pyrene	Naphthalene	1-Methyl-naphthalene	2-Methyl-naphthalene	Phenanthrene	Pyrene
GCTLs		**1**	**40**	**30**	**20**	**20**	**0.8**	**10**	**10**	**0.02**	**5,000**	**20**	**210**	**2,100**	**0.05**	**0.2**	**0.05**	**210**	**0.5**	**4.8**	**0.005**	**280**	**280**	**0.05**	**14**	**28**	**28**	**210**	**210**
NADCs		**100**	**400**	**300**	**200**	**200**	**8**	**100**	**100**	**2**	**50,000**	**200**	**2,100**	**21,000**	**5**	**20**	**5**	**2,100**	**50**	**480**	**0.5**	**2,800**	**2,800**	**5**	**140**	**280**	**280**	**2,100**	**2,100**
MW-South	08/10/18	0.250 U	0.241 U	0.271 U	0.500 U	0.440 U	0.520 U	0.496 U	0.338 U	0.00999 U	672 U	0.240 U	0.0774 U	0.0863 U	0.0481 U	0.0699 U	0.0481 U	0.0668 U	0.0796 U	0.0654 U	0.0736 U	0.224 U	0.240 U	0.0481 U	1.27 U	0.240 U	0.240 U	0.830 U	0.0947 U

Notes: GCTLs = Groundwater Cleanup Target Levels per Chapter 62-777, Table I, Florida Administrative Code (FAC)
NADCs = Natural Attenuation Default Concentrations per Chapter 62-777, Table V, FAC
µg/L = micrograms per liter
MTBE = methyl tertiary butyl ether
TRPH = Total Recoverable Petroleum Hydrocarbons
U = Analyzed for but not detected

FIGURES



SCALE (FEET)

0 40 80

APTIM ENVIRONMENTAL & INFRASTRUCTURE, INC.
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TAMPA, FLORIDA 33619
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(813) 626-1663 FAX

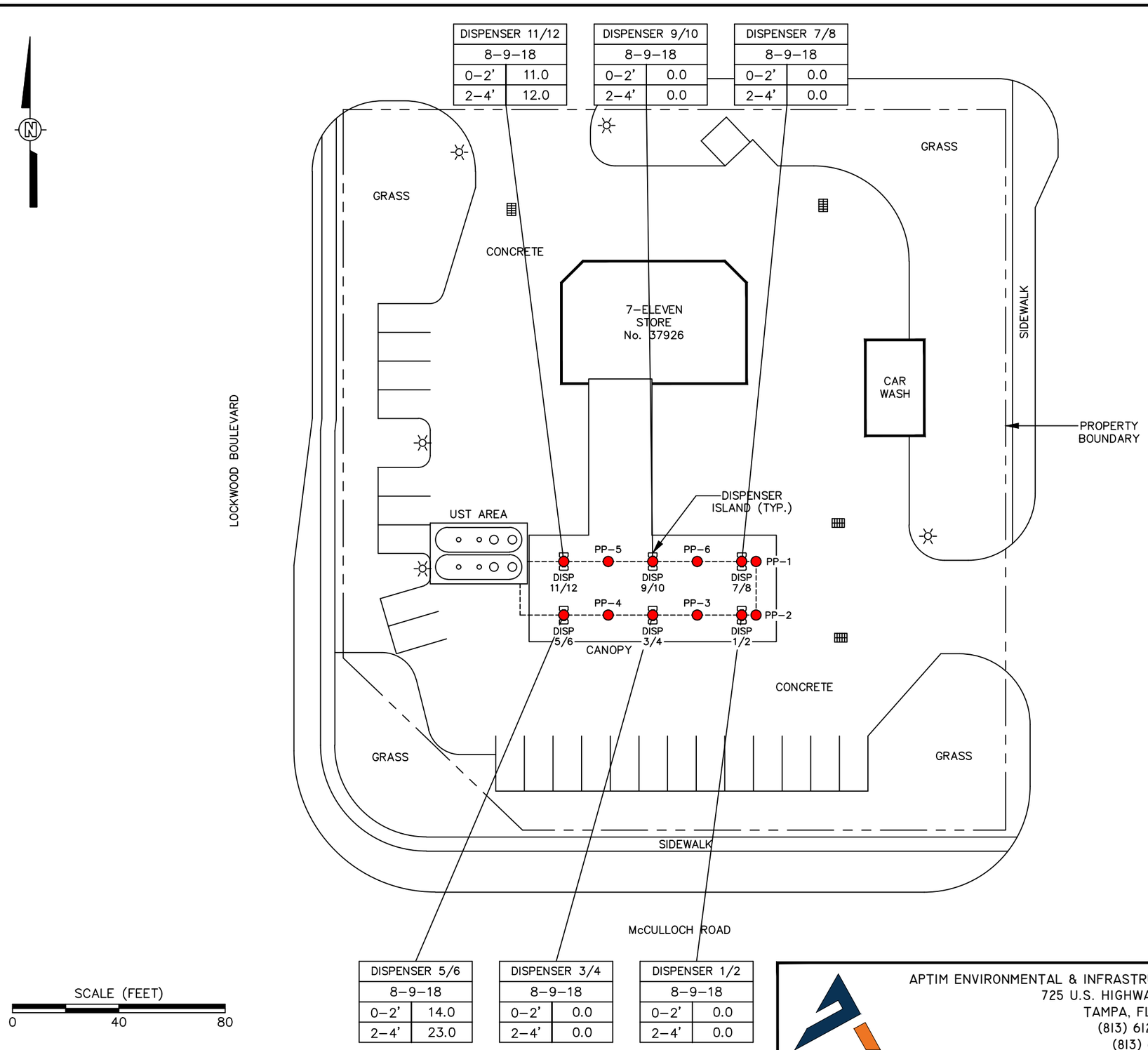
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TAMPA	10–10–18	4499B1

SITE MAP

CLIENT:	PM:
7–ELEVEN, INC.	BB

LOCATION:
7–ELEVEN STORE No. 37926
1640 E. McCULLOCH ROAD
OVIEDO, SEMINOLE COUNTY, FLORIDA
FDEP FACILITY ID No. 59/9805292

DESIGNED:	DRAWN:	PROJECT NO.:	FIGURE:
BB	SDJF	631254499	1



LEGEND:

- SAMPLE LOCATION
- DISPENSER 1/2 — SAMPLE IDENTIFICATION
- 8-9-18 — DATE OF SAMPLE
- 0-2' 0.0 — DEPTH OF SAMPLE (FT)/ NET OVA READING (ppm)

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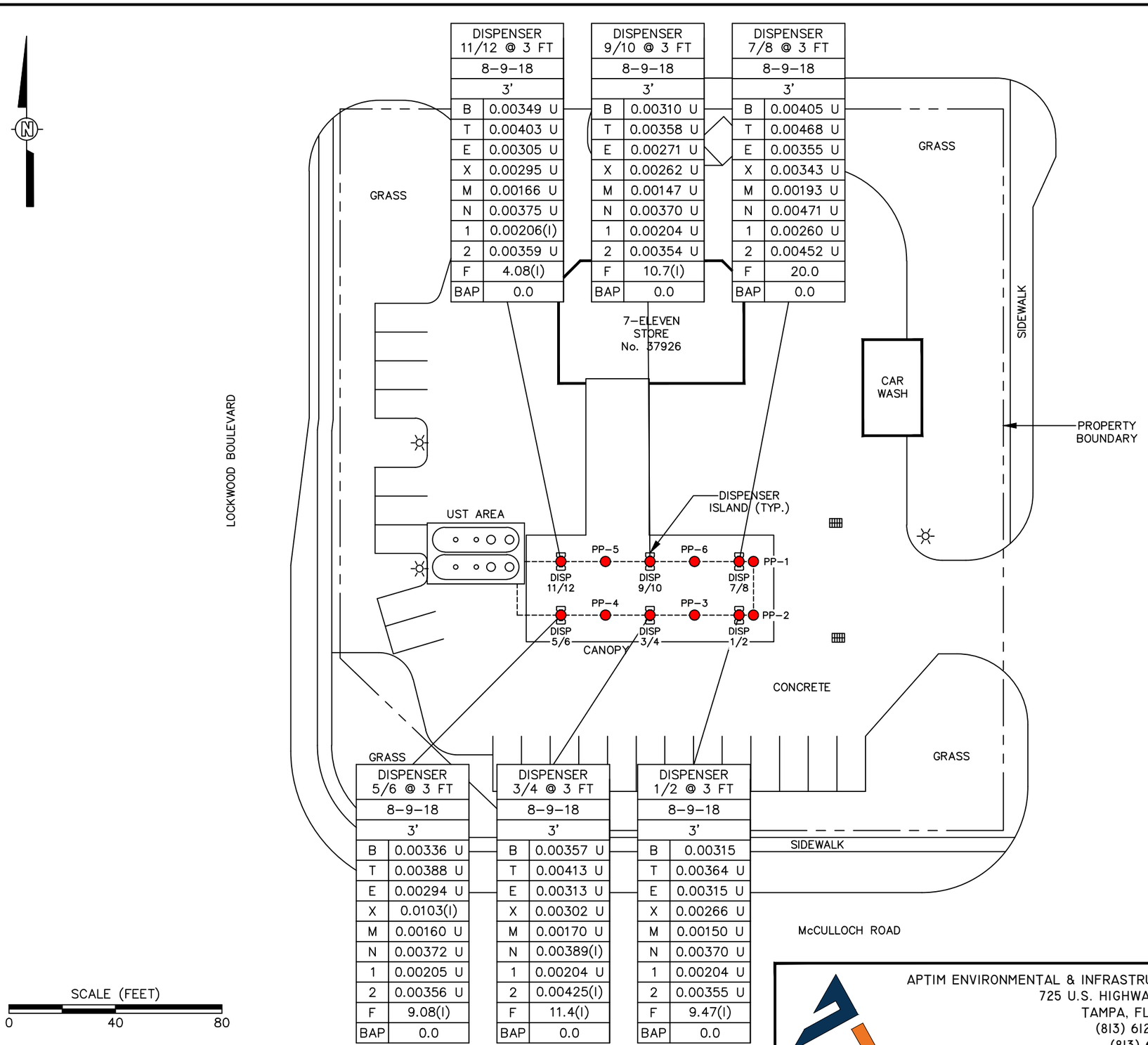
OFFICE:	DATE:	ACAD FILE:
TAMPA	10-10-18	4499B2

OVA/PID READINGS MAP - DISPENSER UDC AUGUST 9, 2018

CLIENT:	PM:
7-ELEVEN, INC.	BB

LOCATION:
7-ELEVEN STORE No. 37926
1640 E. McCULLOCH ROAD
OVIEDO, SEMINOLE COUNTY, FLORIDA
FDEP FACILITY ID No. 59/9805292

DESIGNED:	DRAWN:	PROJECT NO.:	FIGURE:
BB	SDJF	631254499	2



LEGEND:

●	SAMPLE LOCATION
DISPENSER 1/2 @ 3 FT	SAMPLE IDENTIFICATION
8–9–18	DATE OF SAMPLE
3'	DEPTH OF SAMPLE (FEET)
B 0.00315	BENZENE CONCENTRATION (mg/kg)
T 0.00364 U	TOLUENE CONCENTRATION (mg/kg)
E 0.00276 U	ETHYLBENZENE CONCENTRATION (mg/kg)
X 0.00266 U	TOTAL XYLENES CONCENTRATION (mg/kg)
M 0.00150 U	MTBE CONCENTRATION (mg/kg)
N 0.00370 U	NAPHTHALENE CONCENTRATION (mg/kg)
1 0.00204 U	1–METHYLNAPHTHALENE CONC. (mg/kg)
2 0.00355 U	2–METHYLNAPHTHALENE CONC. (mg/kg)
F 9.47(I)	TRPH CONCENTRATION (mg/kg)
BAP 0.0	BENZO(A)PYRENE EQUIV. CONC. (mg/kg)

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OFFICE:	DATE:	ACAD FILE:
TAMPA	10–10–18	4499B3

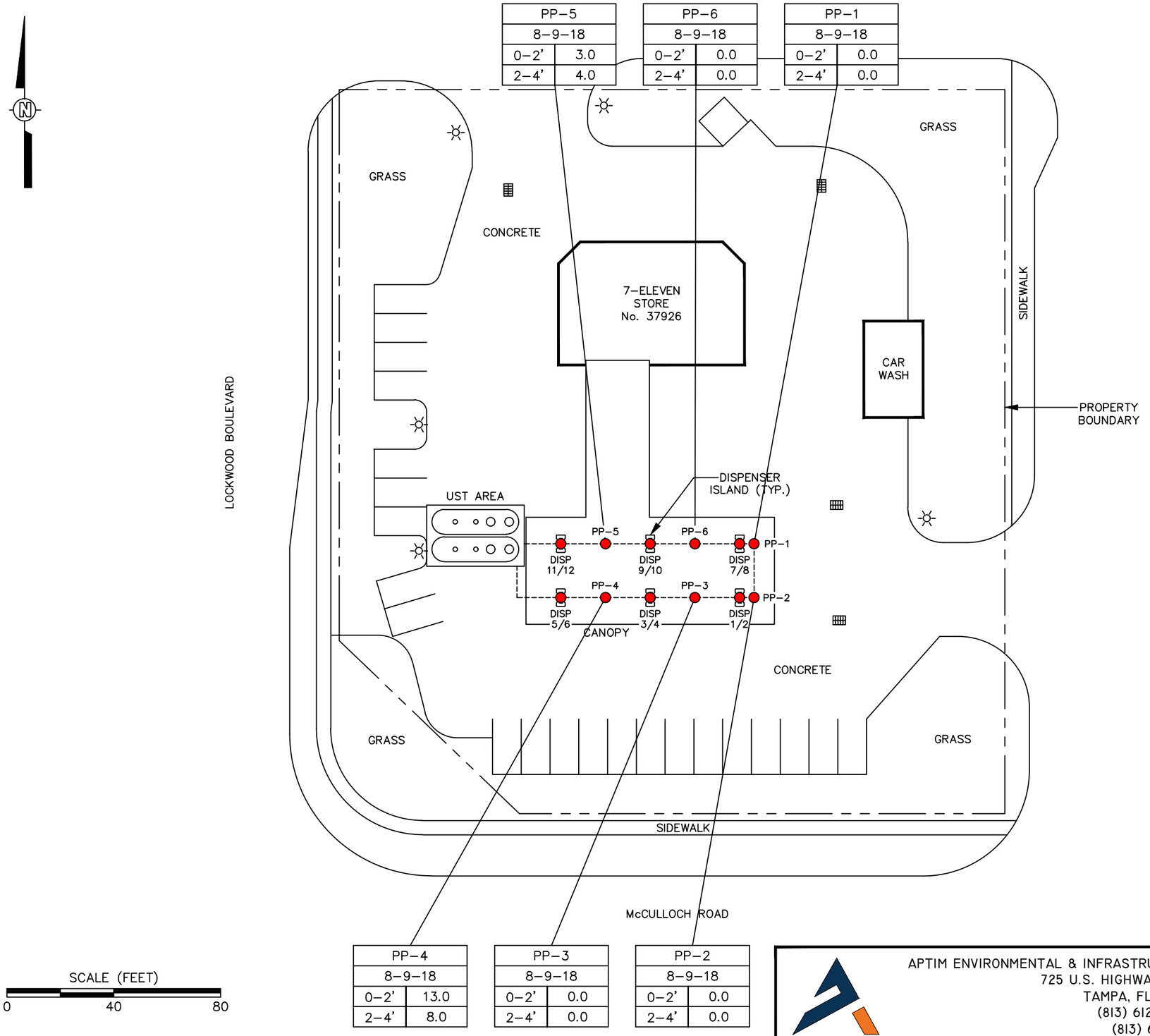
SOIL ANALYTICAL MAP - DISPENSER UDC AUGUST 9, 2018

CLIENT: 7–ELEVEN, INC.

PM: BB

LOCATION:
7–ELEVEN STORE No. 37926
1640 E. McCULLOCH ROAD
OVIEDO, SEMINOLE COUNTY, FLORIDA
FDEP FACILITY ID No. 59/9805292

DESIGNED:	DRAWN:	PROJECT NO.:	FIGURE:
BB	SDJF	631254499	3



LEGEND:

- SAMPLE LOCATION
- PP-1 / 8-9-18 / 0-2' 0.0 — SAMPLE IDENTIFICATION / DATE OF SAMPLE / DEPTH OF SAMPLE (FT)/ NET OVA READING (ppm)

SCALE (FEET)
0 40 80

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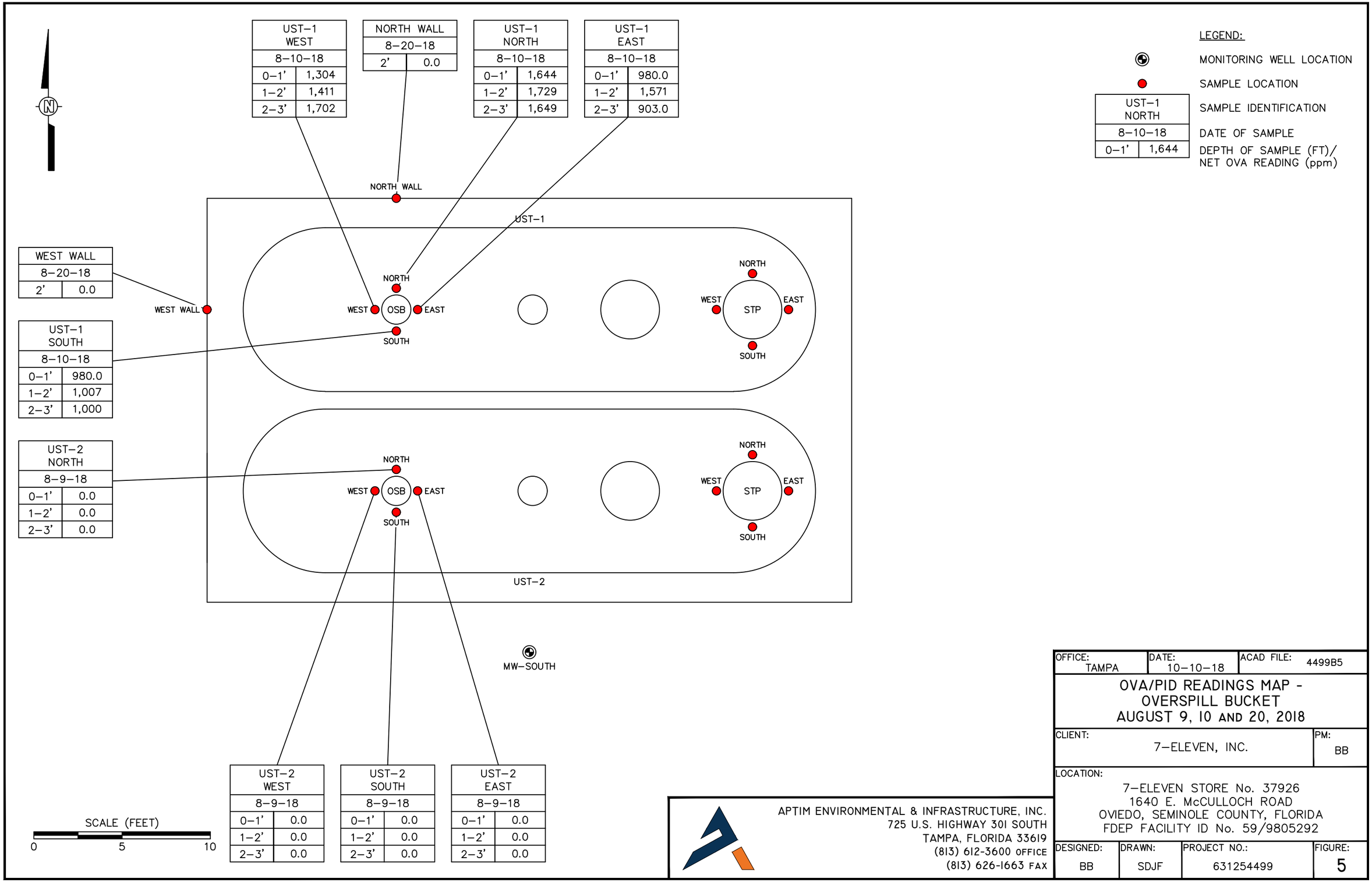
OFFICE:	DATE:	ACAD FILE:
TAMPA	10-10-18	4499B4

OVA/PID READINGS MAP - PRODUCT PIPING AUGUST 9, 2018

CLIENT:	PM:
7-ELEVEN, INC.	BB

LOCATION:
7-ELEVEN STORE No. 37926
1640 E. McCULLOCH ROAD
OVIEDO, SEMINOLE COUNTY, FLORIDA
FDEP FACILITY ID No. 59/9805292

DESIGNED:	DRAWN:	PROJECT NO.:	FIGURE:
BB	SDJF	631254499	4



APTIM ENVIRONMENTAL & INFRASTRUCTURE, INC.
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(813) 626-1663 FAX

OFFICE:	DATE:	ACAD FILE:
TAMPA	10–10–18	4499B5

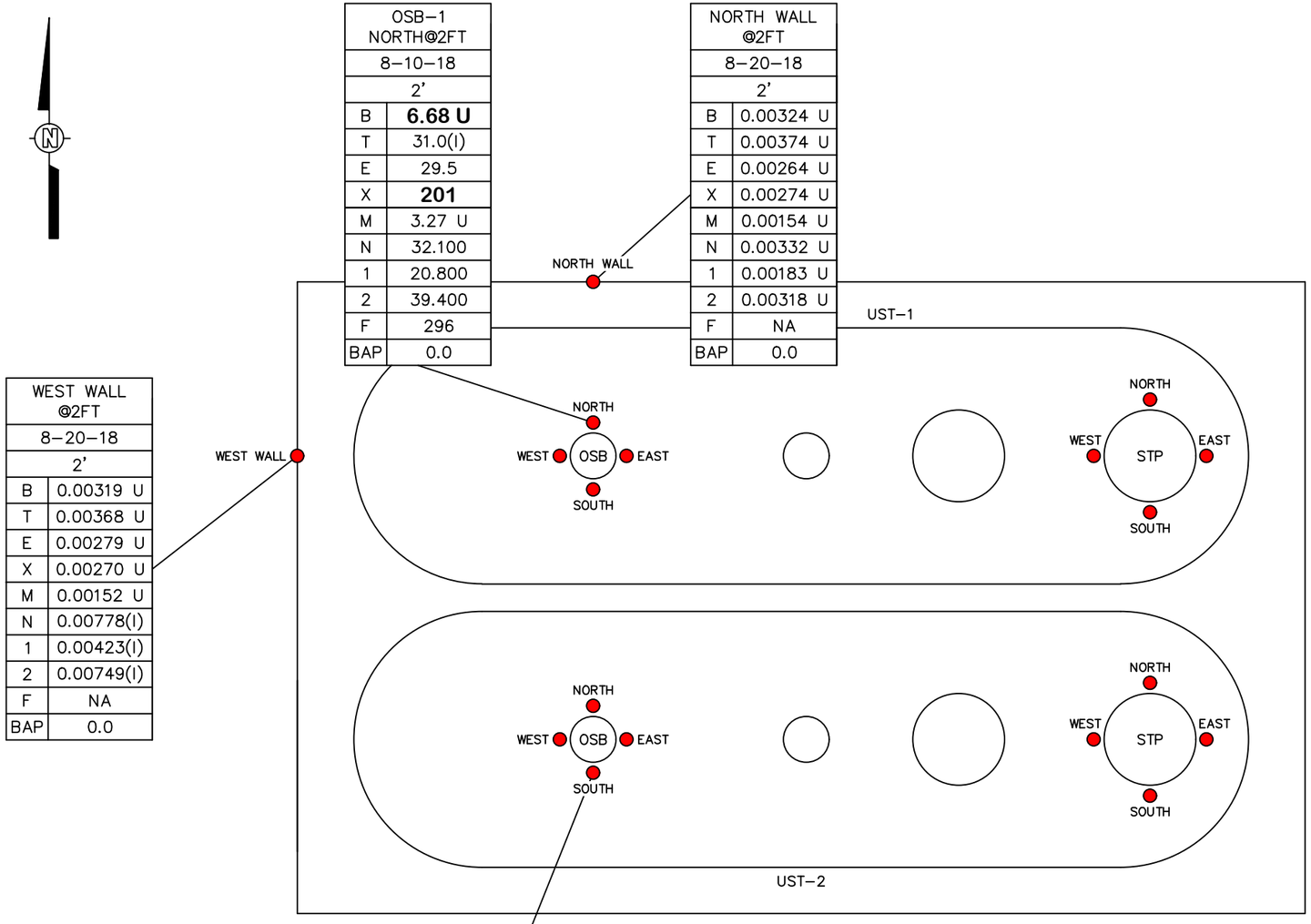
OVA/PID READINGS MAP - OVERSPILL BUCKET AUGUST 9, 10 AND 20, 2018

CLIENT: 7–ELEVEN, INC.

PM: BB

LOCATION:
7–ELEVEN STORE No. 37926
1640 E. McCULLOCH ROAD
OVIEDO, SEMINOLE COUNTY, FLORIDA
FDEP FACILITY ID No. 59/9805292

DESIGNED:	DRAWN:	PROJECT NO.:	FIGURE:
BB	SDJF	631254499	5



LEGEND:

- MONITORING WELL LOCATION
- SAMPLE LOCATION

OSB–1 NORTH@2FT	
8–10–18	SAMPLE IDENTIFICATION
2'	DATE OF SAMPLE
B	6.68 U — DEPTH OF SAMPLE (FEET)
T	31.0(I) — BENZENE CONCENTRATION (mg/kg)
E	29.5 — TOLUENE CONCENTRATION (mg/kg)
X	201 — ETHYLBENZENE CONCENTRATION (mg/kg)
M	3.27 U — TOTAL XYLENES CONCENTRATION (mg/kg)
N	32.100 — MTBE CONCENTRATION (mg/kg)
1	20.800 — NAPHTHALENE CONCENTRATION (mg/kg)
2	39.400 — 1–METHYLNAPHTHALENE CONC. (mg/kg)
F	296 — 2–METHYLNAPHTHALENE CONC. (mg/kg)
BAP	0.0 — TRPH CONCENTRATION (mg/kg)
	BENZO(A)PYRENE EQUIV. CONC. (mg/kg)

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TAMPA, FLORIDA 33619
(813) 612-3600 OFFICE
(813) 626-1663 FAX

OFFICE:	DATE:	ACAD FILE:
TAMPA	10–10–18	4499B6

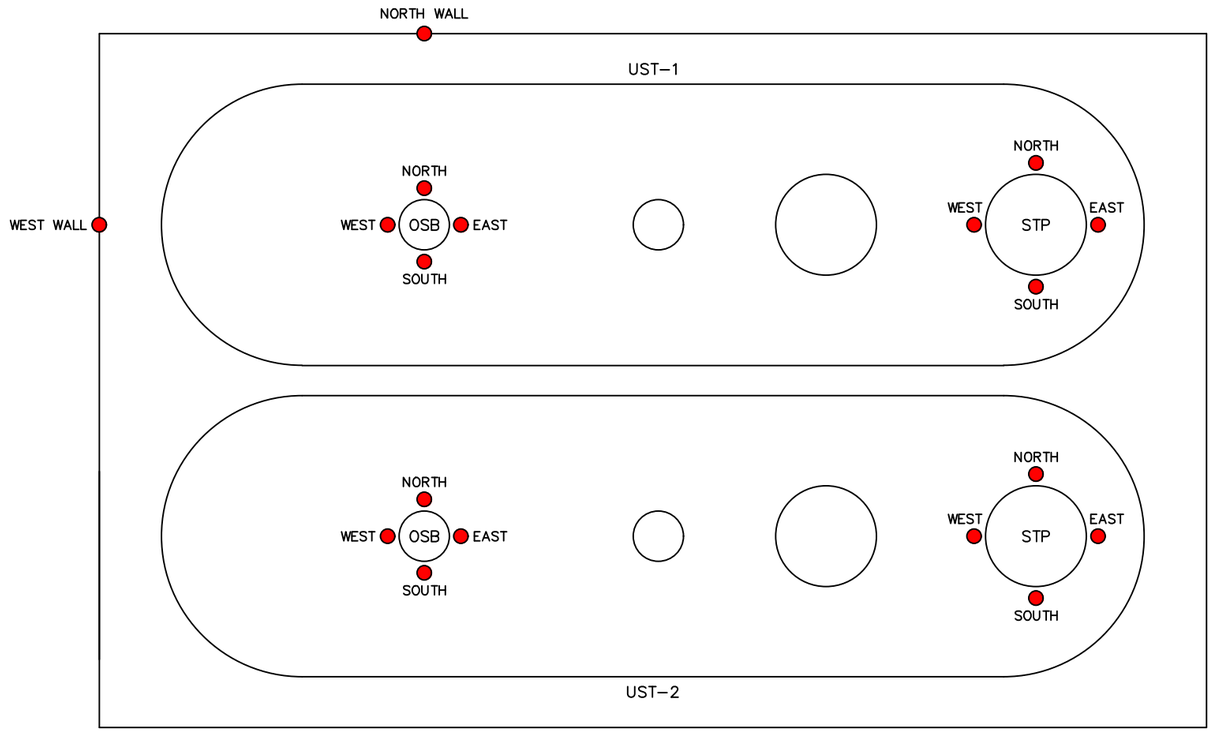
SOIL ANALYTICAL MAP - OVERSPILL BUCKET AUGUST 10 AND 20, 2018

CLIENT: 7–ELEVEN, INC.

PM: BB

LOCATION:
7–ELEVEN STORE No. 37926
1640 E. McCULLOCH ROAD
OVIEDO, SEMINOLE COUNTY, FLORIDA
FDEP FACILITY ID No. 59/9805292

DESIGNED:	DRAWN:	PROJECT NO.:	FIGURE:
BB	SDJF	631254499	6



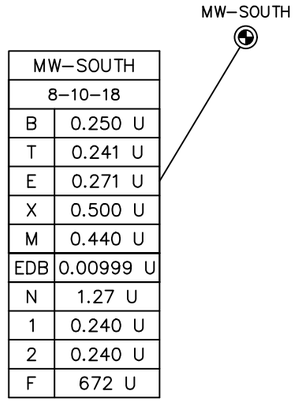
LEGEND:

MONITORING WELL LOCATION

SAMPLE LOCATION

MW–SOUTH	
8–10–18	
B	0.250 U
T	0.241 U
E	0.271 U
X	0.500 U
M	0.440 U
EDB	0.00999 U
N	1.27 U
1	0.240 U
2	0.240 U
F	672 U

WELL IDENTIFICATION
DATE OF SAMPLE
BENZENE CONCENTRATION (ug/L)
TOLUENE CONCENTRATION (ug/L)
ETHYLBENZENE CONCENTRATION (ug/L)
TOTAL XYLENES CONCENTRATION (ug/L)
MTBE CONCENTRATION (ug/L)
EDB CONCENTRATION (ug/L)
NAPHTHALENE CONCENTRATION (ug/L)
1–METHYLNAPHTHALENE CONC. (ug/L)
2–METHYLNAPHTHALENE CONC. (ug/L)
TRPH CONCENTRATION (ug/L)



MW–SOUTH	
8–10–18	
B	0.250 U
T	0.241 U
E	0.271 U
X	0.500 U
M	0.440 U
EDB	0.00999 U
N	1.27 U
1	0.240 U
2	0.240 U
F	672 U

SCALE (FEET)
0 5 10

APTIM ENVIRONMENTAL & INFRASTRUCTURE, INC.
725 U.S. HIGHWAY 301 SOUTH
TAMPA, FLORIDA 33619
(813) 612-3600 OFFICE
(813) 626-1663 FAX

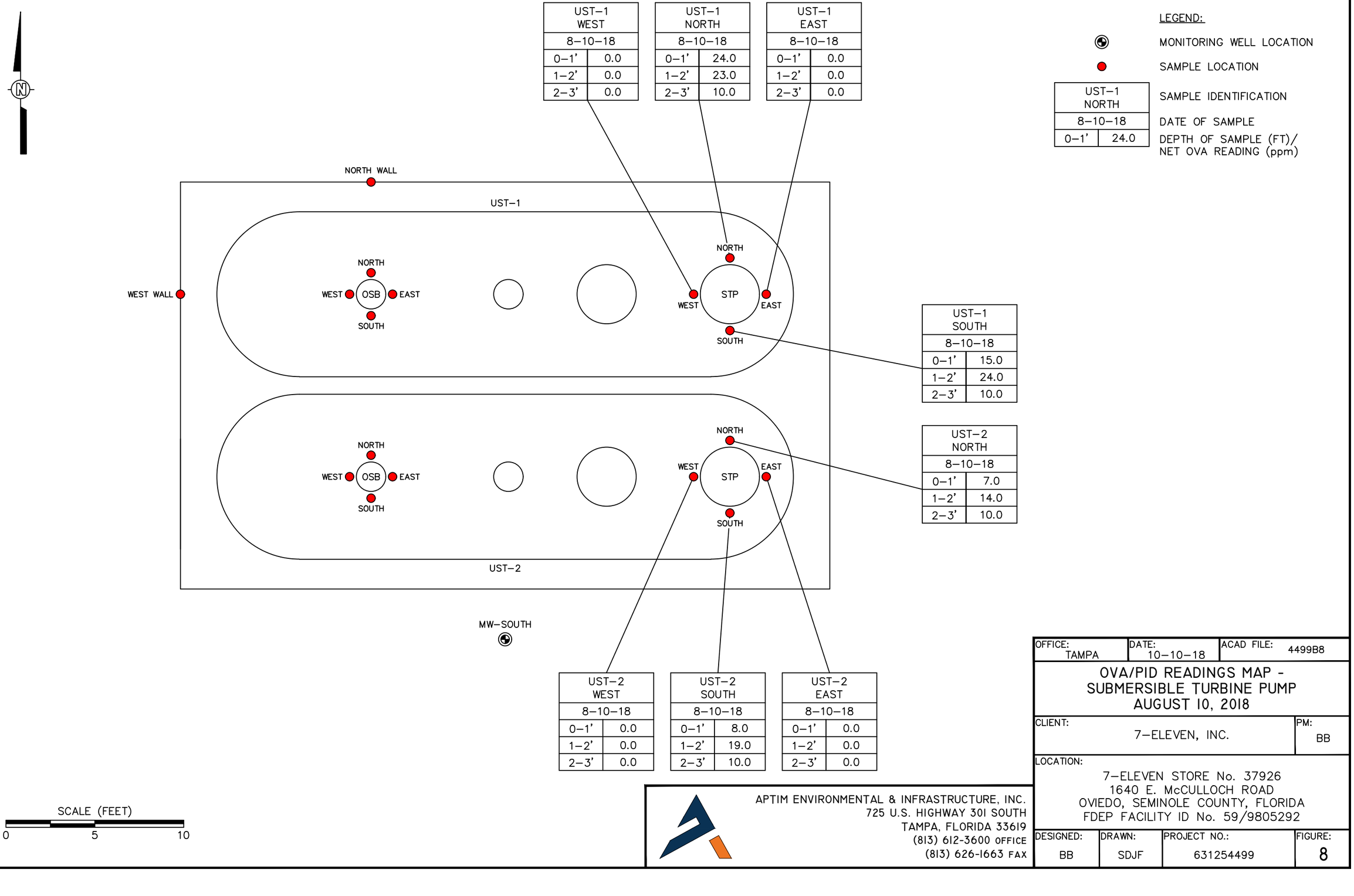
OFFICE:	DATE:	ACAD FILE:
TAMPA	10–10–18	4499B7

GROUNDWATER ANALYTICAL MAP - OVERSPILL BUCKET AUGUST 10, 2018

CLIENT:	PM:
7–ELEVEN, INC.	BB

LOCATION:
7–ELEVEN STORE No. 37926
1640 E. McCULLOCH ROAD
OVIEDO, SEMINOLE COUNTY, FLORIDA
FDEP FACILITY ID No. 59/9805292

DESIGNED:	DRAWN:	PROJECT NO.:	FIGURE:
BB	SDJF	631254499	7



UST–1 WEST	
8–10–18	
0–1’	0.0
1–2’	0.0
2–3’	0.0

UST–1 NORTH	
8–10–18	
0–1’	24.0
1–2’	23.0
2–3’	10.0

UST–1 EAST	
8–10–18	
0–1’	0.0
1–2’	0.0
2–3’	0.0

UST–1 SOUTH	
8–10–18	
0–1’	15.0
1–2’	24.0
2–3’	10.0

UST–2 NORTH	
8–10–18	
0–1’	7.0
1–2’	14.0
2–3’	10.0

UST–2 WEST	
8–10–18	
0–1’	0.0
1–2’	0.0
2–3’	0.0

UST–2 SOUTH	
8–10–18	
0–1’	8.0
1–2’	19.0
2–3’	10.0

UST–2 EAST	
8–10–18	
0–1’	0.0
1–2’	0.0
2–3’	0.0

APTIM ENVIRONMENTAL & INFRASTRUCTURE, INC.
725 U.S. HIGHWAY 301 SOUTH
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(813) 626-1663 FAX

OFFICE:	DATE:	ACAD FILE:
TAMPA	10–10–18	4499B8

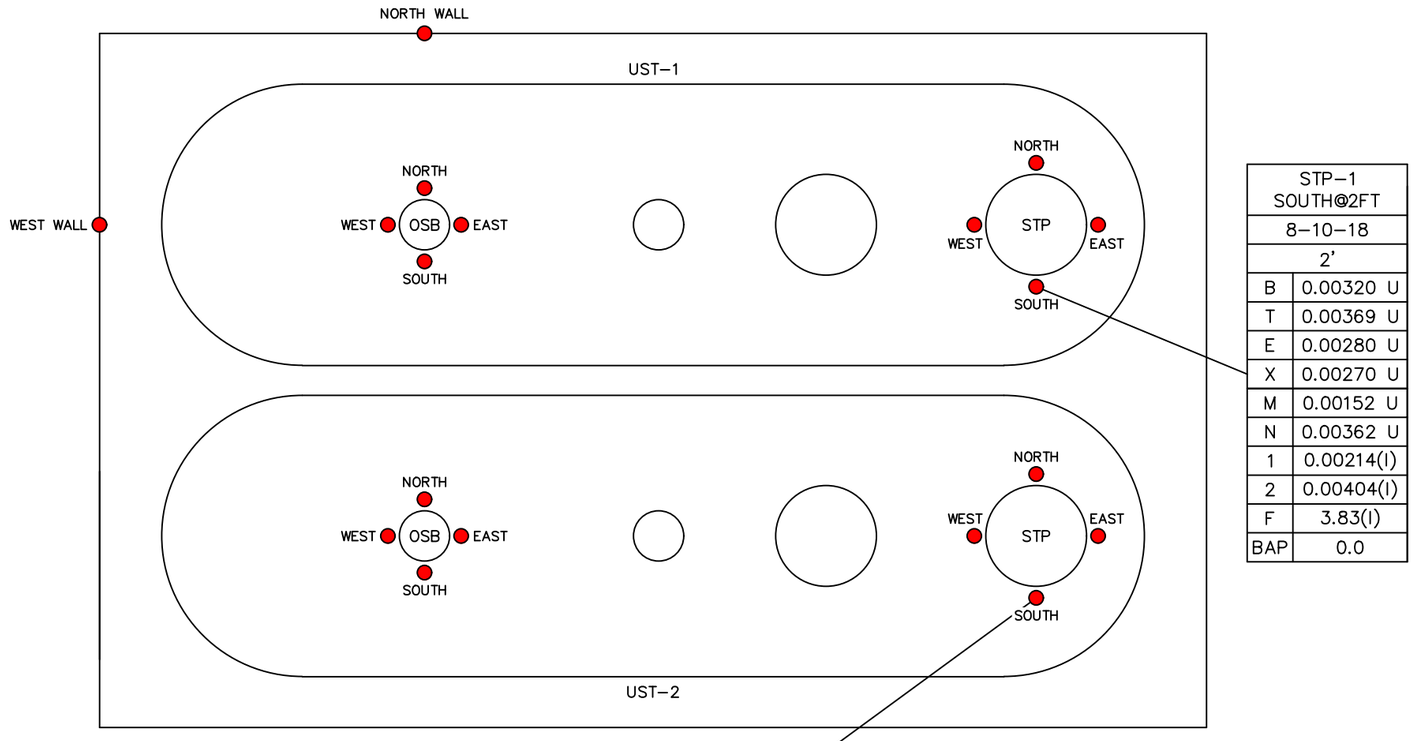
OVA/PID READINGS MAP - SUBMERSIBLE TURBINE PUMP AUGUST 10, 2018

CLIENT: 7–ELEVEN, INC.

PM: BB

LOCATION:
7–ELEVEN STORE No. 37926
1640 E. McCULLOCH ROAD
OVIEDO, SEMINOLE COUNTY, FLORIDA
FDEP FACILITY ID No. 59/9805292

DESIGNED:	DRAWN:	PROJECT NO.:	FIGURE:
BB	SDJF	631254499	8



STP–1 SOUTH@2FT	
8–10–18	
2’	
B	0.00320 U
T	0.00369 U
E	0.00280 U
X	0.00270 U
M	0.00152 U
N	0.00362 U
1	0.00214(I)
2	0.00404(I)
F	3.83(I)
BAP	0.0

MW–SOUTH

STP–2 SOUTH@2FT	
8–10–18	
2’	
B	0.00357 U
T	0.00412 U
E	0.00313 U
X	0.00302 U
M	0.00170 U
N	0.00343 U
1	0.00189 U
2	0.00329 U
F	3.21(I)
BAP	0.0

LEGEND:

- MONITORING WELL LOCATION
- SAMPLE LOCATION

STP–1 SOUTH@2FT	
8–10–18	SAMPLE IDENTIFICATION
2’	DATE OF SAMPLE
B	0.00320 U — DEPTH OF SAMPLE (FEET)
T	0.00369 U — BENZENE CONCENTRATION (mg/kg)
E	0.00280 U — TOLUENE CONCENTRATION (mg/kg)
X	0.00270 U — ETHYLBENZENE CONCENTRATION (mg/kg)
M	0.00152 U — TOTAL XYLENES CONCENTRATION (mg/kg)
N	0.00362 U — MTBE CONCENTRATION (mg/kg)
1	0.00214(I) — NAPHTHALENE CONCENTRATION (mg/kg)
2	0.00404(I) — 1–METHYLNAPHTHALENE CONC. (mg/kg)
F	3.83(I) — 2–METHYLNAPHTHALENE CONC. (mg/kg)
BAP	0.0 — TRPH CONCENTRATION (mg/kg)
	BENZO(A)PYRENE EQUIV. CONC. (mg/kg)

SCALE (FEET)
0 5 10

APTIM ENVIRONMENTAL & INFRASTRUCTURE, INC.
725 U.S. HIGHWAY 301 SOUTH
TAMPA, FLORIDA 33619
(813) 612-3600 OFFICE
(813) 626-1663 FAX

OFFICE:	DATE:	ACAD FILE:
TAMPA	10–10–18	4499B9

SOIL ANALYTICAL MAP - SUBMERSIBLE TURBINE PUMP AUGUST 10 AND 20, 2018

CLIENT: 7–ELEVEN, INC.

PM: BB

LOCATION:
7–ELEVEN STORE No. 37926
1640 E. McCULLOCH ROAD
OVIEDO, SEMINOLE COUNTY, FLORIDA
FDEP FACILITY ID No. 59/9805292

DESIGNED:	DRAWN:	PROJECT NO.:	FIGURE:
BB	SDJF	631254499	9

ATTACHMENT A

Underground Storage System Installation and Removal Form for Certified Contractors

Department of Environmental Protection

2600 Blair Stone Road ♦ Tallahassee, Florida 32399-2400

DEP Form: 62-761.900(5)
Form Title: Certified Contractors Form
Effective Date: *(effective date of rule)*
Incorporated in Rule 62-761.400, F.A.C.

Underground Storage System Installation and Removal Form for Certified Contractors

Pollutant Storage Systems Contractor as defined in Section 489.105, Florida Statutes [Certified Contractor as defined in Rule 62-761.200, Florida Administrative Code (F.A.C.)] shall use this form to certify that the installation, replacement or removal of the underground storage tank system(s) located at the address listed below was performed in accordance with the Reference Guidelines in 62-761.210, F.A.C. This includes system components in contact with soil, such as dispenser liners, piping sumps, and spill containment systems.

General Facility Information

Facility Name: 7-ELEVEN #37926	DEP Facility Identification No.: 9805292
Street Address (physical location): 1640 McCulloch Road, Oviedo, FL 32765	
County: Seminole	Facility Telephone: 407-247-6750
Owner Name: 7-11, INC.	Owner Telephone: 407-247-6750
Owner Address: Environ. Compliance Dept.# 0148 P.O. Box 711 Dallas, Texas 75221	

Storage Tank System Information

Number of Tanks Installed: ZERO	Number of Tanks Removed: ZERO
Date Work Initiated: 5/24/18	Date Work Completed: 10/9/18
Tank(s) Manufactured by: N/A	
Description of Work Completed: Installed new OPW fiberglass Dispenser Sumps along with new OPW DW Flexible Product Piping, new OPW Fill Spill Buckets, new Bravo fiberglass STP Sumps and a new Veeder Root Tank Monitoring System.	

Certification

I hereby certify and attest that I am familiar with the facility that is registered with the Florida Department of Environmental Protection; that to the best of my knowledge and belief, the storage tank system installation, replacement or removal at this facility was conducted in accordance with Chapter 489, Florida Statutes, Section 376.303, Florida Statutes, and Chapter 62-761, F.A.C., and its adopted reference requirements and documents for underground storage tank systems.

(Type or Print)

MICHAEL D. ZARRELLA	PCC 045049
Certified Pollutant Storage System Contractor Name	PSSC Number (Pollutant Storage System Contractor License #)
Certified Pollutant Storage System Contractor Signature	10/10/18 Date
Lou D'Antonio	10/10/18
Field Supervisor Name	Date

The owner or operator of the facility must register a new storage tank system with the Department prior to installation, see Rule 62-761.400, F.A.C. The installer must submit this form to the County no more than 21 days after the completion of installation, replacement, or 21 days after removal of a storage tank system.

ATTACHMENT B

FDEP Groundwater Sampling Log, OVA and YSI Calibration Sheets, Soil and Groundwater Laboratory Analytical Reports, Soil and Groundwater Quality Assurance/Quality Control Reports, and Soil and Groundwater Chain-of-Custody Documentation

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME:	7-11 #39726	SITE LOCATION:	Oviedo, FL
WELL NO:	MW-South	SAMPLE ID:	MW-South
DATE:	8/10/18		

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	3/16	WELL SCREEN INTERVAL DEPTH:	feet to 10.2 feet	STATIC DEPTH TO WATER (feet):	3.29	PURGE PUMP TYPE OR BAILER:	APP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (10.2 feet – 3.29 feet) X 0.16 gallons/foot = 1.10 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	4	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	5	PURGING INITIATED AT:	0950	PURGING ENDED AT:	1019	TOTAL VOLUME PURGED (gallons):	2.00

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	
1001	1.10	1.10	0.1	3.75	5.55	28.9	215.7	0.10	37.90	Slight	H_2S	-148
1010	0.45	1.55	0.05	3.62	5.49	29.1	210.6	0.20	36.21	Yellow	Sulfuric	-145
1019	0.45	2.00	0.05	3.62	5.47	29.1	211.1	0.13	36.60	"	"	-146

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	L McVeigh APTIM G Roney	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	1020	SAMPLING ENDED AT:	1030
PUMP OR TUBING DEPTH IN WELL (feet):	5	TUBING MATERIAL CODE:	HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:		FILTER SIZE: ____ µm	
FIELD DECONTAMINATION: PUMP Y (N)		TUBING Y (N) (replaced)		DUPLICATE: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)						
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)	
MW-South	3	CG	40mL	HCl	—	—	8260 VOA/VOST	APP	100	
MW-South	2	AG	250mL	ICE	—	—	8270 PAH			
MW-South	2	AG	250mL	HCl	—	—	FL-PRO TRPH			
MW-South	1	HDPE	250mL	HNO_3	—	—	6010 Lead			
MW-South	3	CG	250mL	HCl	—	—	504.1 EDB	↓	↓	

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

YSI MULTI-PARAMETER FIELD CALIBRATION WORKSHEET

Project Name: 7-11 37926

Sample Tech.: Kennedy McVeigh

Date: 8/10/18

Model: YSI Pro Series

Meter #: 17C102182

Sonde #:

APTIM SN:

Operation Notes:

1) Allow for at least 10 minutes for warmup and DO saturation prior to use.
2) Did the DO membrane require replacement? Yes / (No)
3) Is turbidity wiper operational? N/A
4) DO Sensor Check.

Complete the DO sensor check with the 6000 series unit cold, turned on for the first time of the day.
Go to the RUN mode and watch the DO% output for about a 2 minute period. The unit
should display decreasing values to a stabilization reading at or near ~ 100%, or lower with higher attitude.
In the event that the DO% starts low and climbs to a stabilization value indicates that the sensor requires maintainance.
DO Sensor Operational ? (Yes) / No

Parameter	Readings / Time						Florida Department of Environmental Protection **ACCEPTABILITY RANGE:**
	Initial prior to calibration	Directly After Calibration	Accept Calibration	Final after sampling	Accept Final Check	Units	
Barometric pressure	761.3 @ 0535					mmHg	Monthly independent barometric pressure check +/- 2.5 mmHg
Temperature	27.1 @ 0935	27.2 @ 0936	✓	27.3 @ 1245	✓	C	Monthly Check with NIST Thermometer. +/- 0.5 °C of NIST
Dissolved Oxygen	8.00 @ 0935	7.95 @ 0936	✓	7.93 @ 1241	✓	mg/L	+/- 0.2 mg/L from temperature adjusted 100% DO saturation (See DO/Temp Table 1 below)
Conductivity	999 @ 0937	1000 @ 0937	✓	1001 @ 1242	✓	mS/cm	+ / - 5.0 % of standard
pH 7 (Note: use first)	6.99 @ 0938	7.00 @ 0938	✓	7.00 @ 1249	✓	SU	+/- 0.2 SU of standard
pH 4	4.01 @ 0934	4.00 @ 0939	✓	3.98 @ 1249	✓	SU	
pH 10	9.98 @ 0940	10.00 @ 0940	✓	10.01 @ 1250	✓	SU	
ORP	241.1 @ 0941	240 @ 0941	✓	240 @ 1251	✓	mV	+/- 10 mV of standard
Turbidity (0) (HACH 2100 Meter)	0.11 @ 0942	0.03 @ 0942	✓	0.05 @ 1252	✓	NTU	+/- 5% or 2 NTUs of standard (YSI Specifications)
Turbidity (20 NTU) (HACH 2100 Meter)	20.31 @ 0943	20.00 @ 0942	✓	20.01 @ 1253	✓	NTU	+ / - 5% of NTU standard

Table 1: DO 100% Saturation vs. Temperature

Temp (C)	DO	Temp (C)	DO	Temp (C)	DO	Temp (C)	DO	Temp (C)	DO
15	10.084	20	9.092	25	8.263	30	7.559	35	6.950
16	9.870	21	8.915	26	8.113	31	7.430	36	6.837
17	9.665	22	8.743	27	7.968	32	7.305	37	6.727
18	9.467	23	8.578	28	7.827	33	7.183	38	6.620
19	9.276	24	8.418	29	7.691	34	7.065	39	6.515

Calibration Standards

Parameter	Name	Lot #	Description	Color	Expiration
Conductivity (10 mS)	Provided by APTIM Findlay. Any questions, call Ed Shuck in Findlay @ 419-425-6050		KCl, I_2, H_2O	Clear	Provided by APTIM Findlay. Any questions, call Ed Shuck in Findlay @ 419-425-6050
pH 4 SU			pH 4.0 standard	Red	
pH 7 SU			pH 7.0 standard	Green	
pH 10 SU			pH 10.0 standard	Blue	
Turbidity (0 NTU)			Reverse osmosis H_2O	Clear	
Turbidity (126 NTU)			KCl, I, H2O (YSI specific)	White	
ORP	Calibrated by APTIM Findlay; For the 8.5 by 11" sheet that comes with each new rental instrument, keep YSI calibration record in current job file.		Zobell	White	

PID/FID Detector Calibration Log

Project Name: 7-11 # 39726 Project No. : 631235988 Date 8-9-18 → 8-10-18

Calibrated by: WM Instrument: Mfg/Model/Serial No.: Rae Tech Tgr

Time	Probe Type	Battery Charged (Y/N)	Calibration Standard	Calibration Standard Concentration (ppm)	Span Setting	Meter Scale Setting	Zeroed (Y/N)	Actual ~~Expected~~ Meter Reading (ppm)	Expected ~~Actual~~ Meter Reading (ppm)
0850	PID	Y	Isobutylene	100.0	1000	100.0	Y	102.3	100.0
0851			Neutral Air	0.0	0.0	0.0		0.623	0.0
1502								104.2	
1501								0.379	
0840								102.9	
0841								0.716	
1250								104.7	
1251								0.593	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Tampa
6712 Benjamin Road
Suite 100
Tampa, FL 33634
Tel: (813)885-7427

TestAmerica Job ID: 660-88901-1
Client Project/Site: 7-11 No 37926.TP(FL)

For:
Aptim Environmental & Infrastructure Inc
5725 NW 159th Street
Miami Lakes, Florida 33014

Attn: Ms. Nancy O'Grady

Authorized for release by:
8/15/2018 4:08:03 PM

Jimmy Huckaba, Project Manager I
(615)301-5746
jimmy.huckaba@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.
Results relate only to the items tested and the sample(s) as received by the laboratory.

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QC Association Summary 17
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Method Summary 22
Certification Summary 23
Chain of Custody 24

Sample Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: 7-11 No 37926.TP(FL)

TestAmerica Job ID: 660-88901-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-88901-1	Dispenser 1/2@3ft	Solid	08/09/18 14:50	08/10/18 09:50
660-88901-2	Dispenser 3/4@3ft	Solid	08/09/18 14:40	08/10/18 09:50
660-88901-3	Dispenser 5/6@3ft	Solid	08/09/18 14:30	08/10/18 09:50
660-88901-4	Dispenser 7/8@3ft	Solid	08/09/18 13:30	08/10/18 09:50
660-88901-5	Dispenser 9/10@3ft	Solid	08/09/18 13:15	08/10/18 09:50
660-88901-6	Dispenser 11/12@3ft	Solid	08/09/18 13:00	08/10/18 09:50

Job ID: 660-88901-1

Laboratory: TestAmerica Tampa

Narrative

Job Narrative
660-88901-1

Comments
No additional comments.

Receipt
The samples were received on 8/10/2018 9:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.8º C and 4.8º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D SIM: The method blank for preparation batch 660-199810 and analytical batch 660-199821 contained Phenanthrene above the method detection limit (MDL). Associated samples were not re-analyzed because results were less than the reporting limit (RL) OR practical quantitation limit (PQL).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
V	Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.

GC Semi VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample ID: Dispenser 1/2@3ft

Date Collected: 08/09/18 14:50
Date Received: 08/10/18 09:50

Lab Sample ID: 660-88901-1

Matrix: Solid
Percent Solids: 85.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00315	U	0.00955	0.00315	mg/Kg	☼	08/11/18 15:39	08/14/18 13:19	1
Toluene	0.00364	U	0.0143	0.00364	mg/Kg	☼	08/11/18 15:39	08/14/18 13:19	1
Ethylbenzene	0.00276	U	0.00955	0.00276	mg/Kg	☼	08/11/18 15:39	08/14/18 13:19	1
Xylenes, Total	0.00266	U	0.0143	0.00266	mg/Kg	☼	08/11/18 15:39	08/14/18 13:19	1
Methyl tert-butyl ether	0.00150	U	0.00955	0.00150	mg/Kg	☼	08/11/18 15:39	08/14/18 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*69 - 130*	*08/11/18 15:39*	*08/14/18 13:19*	*1*
Dibromofluoromethane	*103*		*63 - 139*	*08/11/18 15:39*	*08/14/18 13:19*	*1*
Toluene-d8 (Surr)	*100*		*67 - 138*	*08/11/18 15:39*	*08/14/18 13:19*	*1*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.00168	U	0.00789	0.00168	mg/Kg	☼	08/13/18 13:30	08/14/18 13:36	1
Acenaphthylene	0.00172	U	0.00789	0.00172	mg/Kg	☼	08/13/18 13:30	08/14/18 13:36	1
Anthracene	0.000720	U	0.00789	0.000720	mg/Kg	☼	08/13/18 13:30	08/14/18 13:36	1
Benzo[a]anthracene	0.00178	U	0.00789	0.00178	mg/Kg	☼	08/13/18 13:30	08/14/18 13:36	1
Benzo[a]pyrene	0.00191	U	0.00789	0.00191	mg/Kg	☼	08/13/18 13:30	08/14/18 13:36	1
Benzo[b]fluoranthene	0.00190	U	0.00789	0.00190	mg/Kg	☼	08/13/18 13:30	08/14/18 13:36	1
Benzo[g,h,i]perylene	0.00193	U	0.00789	0.00193	mg/Kg	☼	08/13/18 13:30	08/14/18 13:36	1
Benzo[k]fluoranthene	0.00218	U	0.00789	0.00218	mg/Kg	☼	08/13/18 13:30	08/14/18 13:36	1
Chrysene	0.00184	U	0.00789	0.00184	mg/Kg	☼	08/13/18 13:30	08/14/18 13:36	1
Dibenz(a,h)anthracene	0.00191	U	0.00789	0.00191	mg/Kg	☼	08/13/18 13:30	08/14/18 13:36	1
Fluoranthene	**0.00484**	**I**	0.00789	0.00133	mg/Kg	☼	08/13/18 13:30	08/14/18 13:36	1
Fluorene	**0.00180**	**I**	0.00789	0.00170	mg/Kg	☼	08/13/18 13:30	08/14/18 13:36	1
Indeno[1,2,3-cd]pyrene	0.00178	U	0.00789	0.00178	mg/Kg	☼	08/13/18 13:30	08/14/18 13:36	1
1-Methylnaphthalene	0.00204	U	0.00789	0.00204	mg/Kg	☼	08/13/18 13:30	08/14/18 13:36	1
2-Methylnaphthalene	0.00355	U	0.0118	0.00355	mg/Kg	☼	08/13/18 13:30	08/14/18 13:36	1
Naphthalene	0.00370	U	0.0118	0.00370	mg/Kg	☼	08/13/18 13:30	08/14/18 13:36	1
Phenanthrene	**0.0112**	**I V**	0.0118	0.00350	mg/Kg	☼	08/13/18 13:30	08/14/18 13:36	1
Pyrene	**0.00286**	**I**	0.00789	0.00187	mg/Kg	☼	08/13/18 13:30	08/14/18 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluoranthene-d10	*82*		*25 - 150*	*08/13/18 13:30*	*08/14/18 13:36*	*1*
2-methylnaphthalene-d10	*70*		*20 - 150*	*08/13/18 13:30*	*08/14/18 13:36*	*1*

Method: FL-PRO - Florida - Petroleum Range Organics (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FL PRO	**9.47**	**I**	14.1	3.49	mg/Kg	☼	08/14/18 11:33	08/15/18 12:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*62 - 109*	*08/14/18 11:33*	*08/15/18 12:00*	*1*
n-C39	*98*		*60 - 118*	*08/14/18 11:33*	*08/15/18 12:00*	*1*

Client Sample ID: Dispenser 3/4@3ft

Date Collected: 08/09/18 14:40
Date Received: 08/10/18 09:50

Lab Sample ID: 660-88901-2

Matrix: Solid
Percent Solids: 85.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00357	U	0.0108	0.00357	mg/Kg	☼	08/11/18 15:40	08/14/18 13:38	1
Toluene	0.00413	U	0.0162	0.00413	mg/Kg	☼	08/11/18 15:40	08/14/18 13:38	1
Ethylbenzene	0.00313	U	0.0108	0.00313	mg/Kg	☼	08/11/18 15:40	08/14/18 13:38	1
Xylenes, Total	0.00302	U	0.0162	0.00302	mg/Kg	☼	08/11/18 15:40	08/14/18 13:38	1
Methyl tert-butyl ether	0.00170	U	0.0108	0.00170	mg/Kg	☼	08/11/18 15:40	08/14/18 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*69 - 130*	*08/11/18 15:40*	*08/14/18 13:38*	*1*
Dibromofluoromethane	*103*		*63 - 139*	*08/11/18 15:40*	*08/14/18 13:38*	*1*
Toluene-d8 (Surr)	*99*		*67 - 138*	*08/11/18 15:40*	*08/14/18 13:38*	*1*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.00169	U	0.00790	0.00169	mg/Kg	☼	08/13/18 13:30	08/14/18 14:05	1
Acenaphthylene	0.00172	U	0.00790	0.00172	mg/Kg	☼	08/13/18 13:30	08/14/18 14:05	1
Anthracene	0.000720	U	0.00790	0.000720	mg/Kg	☼	08/13/18 13:30	08/14/18 14:05	1
Benzo[a]anthracene	0.00178	U	0.00790	0.00178	mg/Kg	☼	08/13/18 13:30	08/14/18 14:05	1
Benzo[a]pyrene	0.00191	U	0.00790	0.00191	mg/Kg	☼	08/13/18 13:30	08/14/18 14:05	1
Benzo[b]fluoranthene	0.00190	U	0.00790	0.00190	mg/Kg	☼	08/13/18 13:30	08/14/18 14:05	1
Benzo[g,h,i]perylene	0.00193	U	0.00790	0.00193	mg/Kg	☼	08/13/18 13:30	08/14/18 14:05	1
Benzo[k]fluoranthene	0.00218	U	0.00790	0.00218	mg/Kg	☼	08/13/18 13:30	08/14/18 14:05	1
Chrysene	0.00184	U	0.00790	0.00184	mg/Kg	☼	08/13/18 13:30	08/14/18 14:05	1
Dibenz(a,h)anthracene	0.00191	U	0.00790	0.00191	mg/Kg	☼	08/13/18 13:30	08/14/18 14:05	1
Fluoranthene	**0.00336**	**I**	0.00790	0.00133	mg/Kg	☼	08/13/18 13:30	08/14/18 14:05	1
Fluorene	0.00170	U	0.00790	0.00170	mg/Kg	☼	08/13/18 13:30	08/14/18 14:05	1
Indeno[1,2,3-cd]pyrene	**0.00215**	**I**	0.00790	0.00178	mg/Kg	☼	08/13/18 13:30	08/14/18 14:05	1
1-Methylnaphthalene	0.00204	U	0.00790	0.00204	mg/Kg	☼	08/13/18 13:30	08/14/18 14:05	1
2-Methylnaphthalene	**0.00425**	**I**	0.0118	0.00355	mg/Kg	☼	08/13/18 13:30	08/14/18 14:05	1
Naphthalene	**0.00389**	**I**	0.0118	0.00370	mg/Kg	☼	08/13/18 13:30	08/14/18 14:05	1
Phenanthrene	**0.0113**	**I V**	0.0118	0.00350	mg/Kg	☼	08/13/18 13:30	08/14/18 14:05	1
Pyrene	0.00187	U	0.00790	0.00187	mg/Kg	☼	08/13/18 13:30	08/14/18 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluoranthene-d10	*77*		*25 - 150*	*08/13/18 13:30*	*08/14/18 14:05*	*1*
2-methylnaphthalene-d10	*70*		*20 - 150*	*08/13/18 13:30*	*08/14/18 14:05*	*1*

Method: FL-PRO - Florida - Petroleum Range Organics (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FL PRO	**11.4**	**I**	14.1	3.50	mg/Kg	☼	08/14/18 11:33	08/15/18 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*62 - 109*	*08/14/18 11:33*	*08/15/18 12:19*	*1*
n-C39	*96*		*60 - 118*	*08/14/18 11:33*	*08/15/18 12:19*	*1*

Client Sample ID: Dispenser 5/6@3ft

Date Collected: 08/09/18 14:30
Date Received: 08/10/18 09:50

Lab Sample ID: 660-88901-3

Matrix: Solid
Percent Solids: 84.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00336	U	0.0102	0.00336	mg/Kg	☼	08/11/18 15:41	08/14/18 13:56	1
Toluene	0.00388	U	0.0153	0.00388	mg/Kg	☼	08/11/18 15:41	08/14/18 13:56	1
Ethylbenzene	0.00294	U	0.0102	0.00294	mg/Kg	☼	08/11/18 15:41	08/14/18 13:56	1
Xylenes, Total	**0.0103**	**I**	0.0153	0.00284	mg/Kg	☼	08/11/18 15:41	08/14/18 13:56	1
Methyl tert-butyl ether	0.00160	U	0.0102	0.00160	mg/Kg	☼	08/11/18 15:41	08/14/18 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*69 - 130*	*08/11/18 15:41*	*08/14/18 13:56*	*1*
Dibromofluoromethane	*106*		*63 - 139*	*08/11/18 15:41*	*08/14/18 13:56*	*1*
Toluene-d8 (Surr)	*101*		*67 - 138*	*08/11/18 15:41*	*08/14/18 13:56*	*1*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.00169	U	0.00793	0.00169	mg/Kg	☼	08/13/18 13:30	08/14/18 13:56	1
Acenaphthylene	0.00173	U	0.00793	0.00173	mg/Kg	☼	08/13/18 13:30	08/14/18 13:56	1
Anthracene	0.000723	U	0.00793	0.000723	mg/Kg	☼	08/13/18 13:30	08/14/18 13:56	1
Benzo[a]anthracene	0.00179	U	0.00793	0.00179	mg/Kg	☼	08/13/18 13:30	08/14/18 13:56	1
Benzo[a]pyrene	0.00192	U	0.00793	0.00192	mg/Kg	☼	08/13/18 13:30	08/14/18 13:56	1
Benzo[b]fluoranthene	0.00191	U	0.00793	0.00191	mg/Kg	☼	08/13/18 13:30	08/14/18 13:56	1
Benzo[g,h,i]perylene	0.00194	U	0.00793	0.00194	mg/Kg	☼	08/13/18 13:30	08/14/18 13:56	1
Benzo[k]fluoranthene	0.00219	U	0.00793	0.00219	mg/Kg	☼	08/13/18 13:30	08/14/18 13:56	1
Chrysene	0.00185	U	0.00793	0.00185	mg/Kg	☼	08/13/18 13:30	08/14/18 13:56	1
Dibenz(a,h)anthracene	0.00192	U	0.00793	0.00192	mg/Kg	☼	08/13/18 13:30	08/14/18 13:56	1
Fluoranthene	0.00134	U	0.00793	0.00134	mg/Kg	☼	08/13/18 13:30	08/14/18 13:56	1
Fluorene	0.00170	U	0.00793	0.00170	mg/Kg	☼	08/13/18 13:30	08/14/18 13:56	1
Indeno[1,2,3-cd]pyrene	0.00179	U	0.00793	0.00179	mg/Kg	☼	08/13/18 13:30	08/14/18 13:56	1
1-Methylnaphthalene	0.00205	U	0.00793	0.00205	mg/Kg	☼	08/13/18 13:30	08/14/18 13:56	1
2-Methylnaphthalene	0.00356	U	0.0118	0.00356	mg/Kg	☼	08/13/18 13:30	08/14/18 13:56	1
Naphthalene	0.00372	U	0.0118	0.00372	mg/Kg	☼	08/13/18 13:30	08/14/18 13:56	1
Phenanthrene	**0.00978**	**I V**	0.0118	0.00352	mg/Kg	☼	08/13/18 13:30	08/14/18 13:56	1
Pyrene	0.00188	U	0.00793	0.00188	mg/Kg	☼	08/13/18 13:30	08/14/18 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluoranthene-d10	*81*		*25 - 150*	*08/13/18 13:30*	*08/14/18 13:56*	*1*
2-methylnaphthalene-d10	*68*		*20 - 150*	*08/13/18 13:30*	*08/14/18 13:56*	*1*

Method: FL-PRO - Florida - Petroleum Range Organics (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FL PRO	**9.08**	**I**	14.2	3.52	mg/Kg	☼	08/14/18 11:33	08/15/18 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*62 - 109*	*08/14/18 11:33*	*08/15/18 12:38*	*1*
n-C39	*94*		*60 - 118*	*08/14/18 11:33*	*08/15/18 12:38*	*1*

Client Sample ID: Dispenser 7/8@3ft

Date Collected: 08/09/18 13:30
Date Received: 08/10/18 09:50

Lab Sample ID: 660-88901-4

Matrix: Solid
Percent Solids: 66.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00405	U	0.0123	0.00405	mg/Kg	☼	08/11/18 15:41	08/14/18 14:15	1
Toluene	0.00468	U	0.0184	0.00468	mg/Kg	☼	08/11/18 15:41	08/14/18 14:15	1
Ethylbenzene	0.00355	U	0.0123	0.00355	mg/Kg	☼	08/11/18 15:41	08/14/18 14:15	1
Xylenes, Total	0.00343	U	0.0184	0.00343	mg/Kg	☼	08/11/18 15:41	08/14/18 14:15	1
Methyl tert-butyl ether	0.00193	U	0.0123	0.00193	mg/Kg	☼	08/11/18 15:41	08/14/18 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*69 - 130*	*08/11/18 15:41*	*08/14/18 14:15*	*1*
Dibromofluoromethane	*101*		*63 - 139*	*08/11/18 15:41*	*08/14/18 14:15*	*1*
Toluene-d8 (Surr)	*98*		*67 - 138*	*08/11/18 15:41*	*08/14/18 14:15*	*1*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.00215	U	0.0101	0.00215	mg/Kg	☼	08/13/18 13:30	08/14/18 14:27	1
Acenaphthylene	0.00219	U	0.0101	0.00219	mg/Kg	☼	08/13/18 13:30	08/14/18 14:27	1
Anthracene	0.000917	U	0.0101	0.000917	mg/Kg	☼	08/13/18 13:30	08/14/18 14:27	1
Benzo[a]anthracene	0.00227	U	0.0101	0.00227	mg/Kg	☼	08/13/18 13:30	08/14/18 14:27	1
Benzo[a]pyrene	0.00243	U	0.0101	0.00243	mg/Kg	☼	08/13/18 13:30	08/14/18 14:27	1
Benzo[b]fluoranthene	0.00242	U	0.0101	0.00242	mg/Kg	☼	08/13/18 13:30	08/14/18 14:27	1
Benzo[g,h,i]perylene	0.00246	U	0.0101	0.00246	mg/Kg	☼	08/13/18 13:30	08/14/18 14:27	1
Benzo[k]fluoranthene	0.00278	U	0.0101	0.00278	mg/Kg	☼	08/13/18 13:30	08/14/18 14:27	1
Chrysene	0.00234	U	0.0101	0.00234	mg/Kg	☼	08/13/18 13:30	08/14/18 14:27	1
Dibenz(a,h)anthracene	0.00243	U	0.0101	0.00243	mg/Kg	☼	08/13/18 13:30	08/14/18 14:27	1
Fluoranthene	**0.00362**	**I**	0.0101	0.00170	mg/Kg	☼	08/13/18 13:30	08/14/18 14:27	1
Fluorene	0.00216	U	0.0101	0.00216	mg/Kg	☼	08/13/18 13:30	08/14/18 14:27	1
Indeno[1,2,3-cd]pyrene	**0.00252**	**I**	0.0101	0.00227	mg/Kg	☼	08/13/18 13:30	08/14/18 14:27	1
1-Methylnaphthalene	0.00260	U	0.0101	0.00260	mg/Kg	☼	08/13/18 13:30	08/14/18 14:27	1
2-Methylnaphthalene	0.00452	U	0.0150	0.00452	mg/Kg	☼	08/13/18 13:30	08/14/18 14:27	1
Naphthalene	0.00471	U	0.0150	0.00471	mg/Kg	☼	08/13/18 13:30	08/14/18 14:27	1
Phenanthrene	**0.00740**	**I V**	0.0150	0.00446	mg/Kg	☼	08/13/18 13:30	08/14/18 14:27	1
Pyrene	0.00239	U	0.0101	0.00239	mg/Kg	☼	08/13/18 13:30	08/14/18 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluoranthene-d10	*76*		*25 - 150*	*08/13/18 13:30*	*08/14/18 14:27*	*1*
2-methylnaphthalene-d10	*68*		*20 - 150*	*08/13/18 13:30*	*08/14/18 14:27*	*1*

Method: FL-PRO - Florida - Petroleum Range Organics (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FL PRO	**20.0**		18.0	4.47	mg/Kg	☼	08/14/18 11:33	08/15/18 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*81*		*62 - 109*	*08/14/18 11:33*	*08/15/18 12:57*	*1*
n-C39	*97*		*60 - 118*	*08/14/18 11:33*	*08/15/18 12:57*	*1*

Client Sample ID: Dispenser 9/10@3ft

Date Collected: 08/09/18 13:15
Date Received: 08/10/18 09:50

Lab Sample ID: 660-88901-5

Matrix: Solid
Percent Solids: 85.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00310	U	0.00939	0.00310	mg/Kg	☼	08/11/18 15:43	08/14/18 14:34	1
Toluene	0.00358	U	0.0141	0.00358	mg/Kg	☼	08/11/18 15:43	08/14/18 14:34	1
Ethylbenzene	0.00271	U	0.00939	0.00271	mg/Kg	☼	08/11/18 15:43	08/14/18 14:34	1
Xylenes, Total	0.00262	U	0.0141	0.00262	mg/Kg	☼	08/11/18 15:43	08/14/18 14:34	1
Methyl tert-butyl ether	0.00147	U	0.00939	0.00147	mg/Kg	☼	08/11/18 15:43	08/14/18 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*69 - 130*	*08/11/18 15:43*	*08/14/18 14:34*	*1*
Dibromofluoromethane	*106*		*63 - 139*	*08/11/18 15:43*	*08/14/18 14:34*	*1*
Toluene-d8 (Surr)	*97*		*67 - 138*	*08/11/18 15:43*	*08/14/18 14:34*	*1*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.00168	U	0.00789	0.00168	mg/Kg	☼	08/13/18 13:30	08/14/18 14:57	1
Acenaphthylene	0.00172	U	0.00789	0.00172	mg/Kg	☼	08/13/18 13:30	08/14/18 14:57	1
Anthracene	0.000719	U	0.00789	0.000719	mg/Kg	☼	08/13/18 13:30	08/14/18 14:57	1
Benzo[a]anthracene	0.00178	U	0.00789	0.00178	mg/Kg	☼	08/13/18 13:30	08/14/18 14:57	1
Benzo[a]pyrene	0.00191	U	0.00789	0.00191	mg/Kg	☼	08/13/18 13:30	08/14/18 14:57	1
Benzo[b]fluoranthene	0.00190	U	0.00789	0.00190	mg/Kg	☼	08/13/18 13:30	08/14/18 14:57	1
Benzo[g,h,i]perylene	0.00193	U	0.00789	0.00193	mg/Kg	☼	08/13/18 13:30	08/14/18 14:57	1
Benzo[k]fluoranthene	0.00218	U	0.00789	0.00218	mg/Kg	☼	08/13/18 13:30	08/14/18 14:57	1
Chrysene	0.00184	U	0.00789	0.00184	mg/Kg	☼	08/13/18 13:30	08/14/18 14:57	1
Dibenz(a,h)anthracene	0.00191	U	0.00789	0.00191	mg/Kg	☼	08/13/18 13:30	08/14/18 14:57	1
Fluoranthene	0.00133	U	0.00789	0.00133	mg/Kg	☼	08/13/18 13:30	08/14/18 14:57	1
Fluorene	0.00169	U	0.00789	0.00169	mg/Kg	☼	08/13/18 13:30	08/14/18 14:57	1
Indeno[1,2,3-cd]pyrene	0.00178	U	0.00789	0.00178	mg/Kg	☼	08/13/18 13:30	08/14/18 14:57	1
1-Methylnaphthalene	0.00204	U	0.00789	0.00204	mg/Kg	☼	08/13/18 13:30	08/14/18 14:57	1
2-Methylnaphthalene	0.00354	U	0.0118	0.00354	mg/Kg	☼	08/13/18 13:30	08/14/18 14:57	1
Naphthalene	0.00370	U	0.0118	0.00370	mg/Kg	☼	08/13/18 13:30	08/14/18 14:57	1
Phenanthrene	**0.00422**	**I V**	0.0118	0.00350	mg/Kg	☼	08/13/18 13:30	08/14/18 14:57	1
Pyrene	0.00187	U	0.00789	0.00187	mg/Kg	☼	08/13/18 13:30	08/14/18 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluoranthene-d10	*79*		*25 - 150*	*08/13/18 13:30*	*08/14/18 14:57*	*1*
2-methylnaphthalene-d10	*68*		*20 - 150*	*08/13/18 13:30*	*08/14/18 14:57*	*1*

Method: FL-PRO - Florida - Petroleum Range Organics (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FL PRO	**10.7**	**I**	14.1	3.50	mg/Kg	☼	08/14/18 11:33	08/15/18 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*62 - 109*	*08/14/18 11:33*	*08/15/18 13:17*	*1*
n-C39	*89*		*60 - 118*	*08/14/18 11:33*	*08/15/18 13:17*	*1*

Client Sample ID: Dispenser 11/12@3ft

Date Collected: 08/09/18 13:00
Date Received: 08/10/18 09:50

Lab Sample ID: 660-88901-6

Matrix: Solid
Percent Solids: 83.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00349	U	0.0106	0.00349	mg/Kg	☼	08/11/18 15:44	08/14/18 14:53	1
Toluene	0.00403	U	0.0159	0.00403	mg/Kg	☼	08/11/18 15:44	08/14/18 14:53	1
Ethylbenzene	0.00305	U	0.0106	0.00305	mg/Kg	☼	08/11/18 15:44	08/14/18 14:53	1
Xylenes, Total	0.00295	U	0.0159	0.00295	mg/Kg	☼	08/11/18 15:44	08/14/18 14:53	1
Methyl tert-butyl ether	0.00166	U	0.0106	0.00166	mg/Kg	☼	08/11/18 15:44	08/14/18 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*69 - 130*	*08/11/18 15:44*	*08/14/18 14:53*	*1*
Dibromofluoromethane	*105*		*63 - 139*	*08/11/18 15:44*	*08/14/18 14:53*	*1*
Toluene-d8 (Surr)	*99*		*67 - 138*	*08/11/18 15:44*	*08/14/18 14:53*	*1*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.00171	U	0.00799	0.00171	mg/Kg	☼	08/13/18 13:30	08/14/18 15:18	1
Acenaphthylene	0.00174	U	0.00799	0.00174	mg/Kg	☼	08/13/18 13:30	08/14/18 15:18	1
Anthracene	0.000729	U	0.00799	0.000729	mg/Kg	☼	08/13/18 13:30	08/14/18 15:18	1
Benzo[a]anthracene	0.00180	U	0.00799	0.00180	mg/Kg	☼	08/13/18 13:30	08/14/18 15:18	1
Benzo[a]pyrene	0.00193	U	0.00799	0.00193	mg/Kg	☼	08/13/18 13:30	08/14/18 15:18	1
Benzo[b]fluoranthene	0.00192	U	0.00799	0.00192	mg/Kg	☼	08/13/18 13:30	08/14/18 15:18	1
Benzo[g,h,i]perylene	0.00196	U	0.00799	0.00196	mg/Kg	☼	08/13/18 13:30	08/14/18 15:18	1
Benzo[k]fluoranthene	0.00221	U	0.00799	0.00221	mg/Kg	☼	08/13/18 13:30	08/14/18 15:18	1
Chrysene	0.00186	U	0.00799	0.00186	mg/Kg	☼	08/13/18 13:30	08/14/18 15:18	1
Dibenz(a,h)anthracene	0.00193	U	0.00799	0.00193	mg/Kg	☼	08/13/18 13:30	08/14/18 15:18	1
Fluoranthene	**0.00620**	**I**	0.00799	0.00135	mg/Kg	☼	08/13/18 13:30	08/14/18 15:18	1
Fluorene	0.00172	U	0.00799	0.00172	mg/Kg	☼	08/13/18 13:30	08/14/18 15:18	1
Indeno[1,2,3-cd]pyrene	0.00180	U	0.00799	0.00180	mg/Kg	☼	08/13/18 13:30	08/14/18 15:18	1
1-Methylnaphthalene	**0.00206**	**I**	0.00799	0.00206	mg/Kg	☼	08/13/18 13:30	08/14/18 15:18	1
2-Methylnaphthalene	0.00359	U	0.0119	0.00359	mg/Kg	☼	08/13/18 13:30	08/14/18 15:18	1
Naphthalene	0.00375	U	0.0119	0.00375	mg/Kg	☼	08/13/18 13:30	08/14/18 15:18	1
Phenanthrene	0.00354	U	0.0119	0.00354	mg/Kg	☼	08/13/18 13:30	08/14/18 15:18	1
Pyrene	**0.00455**	**I**	0.00799	0.00190	mg/Kg	☼	08/13/18 13:30	08/14/18 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluoranthene-d10	*82*		*25 - 150*	*08/13/18 13:30*	*08/14/18 15:18*	*1*
2-methylnaphthalene-d10	*74*		*20 - 150*	*08/13/18 13:30*	*08/14/18 15:18*	*1*

Method: FL-PRO - Florida - Petroleum Range Organics (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FL PRO	**4.08**	**I**	14.3	3.54	mg/Kg	☼	08/14/18 11:33	08/15/18 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*62 - 109*	*08/14/18 11:33*	*08/15/18 13:36*	*1*
n-C39	*80*		*60 - 118*	*08/14/18 11:33*	*08/15/18 13:36*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 660-199824/6
Matrix: Solid
Analysis Batch: 199824

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00330	U	0.0100	0.00330	mg/Kg			08/14/18 09:13	1
Toluene	0.00381	U	0.0150	0.00381	mg/Kg			08/14/18 09:13	1
Ethylbenzene	0.00289	U	0.0100	0.00289	mg/Kg			08/14/18 09:13	1
Xylenes, Total	0.00279	U	0.0150	0.00279	mg/Kg			08/14/18 09:13	1
Methyl tert-butyl ether	0.00157	U	0.0100	0.00157	mg/Kg			08/14/18 09:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*69 - 130*		*08/14/18 09:13*	*1*
Dibromofluoromethane	*102*		*63 - 139*		*08/14/18 09:13*	*1*
Toluene-d8 (Surr)	*99*		*67 - 138*		*08/14/18 09:13*	*1*

Lab Sample ID: LCS 660-199824/4
Matrix: Solid
Analysis Batch: 199824

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.05518		mg/Kg		110	62 - 130
Toluene	0.0500	0.05641		mg/Kg		113	76 - 130
Ethylbenzene	0.0500	0.05400		mg/Kg		108	68 - 130
Xylenes, Total	0.100	0.1119		mg/Kg		112	63 - 130
Methyl tert-butyl ether	0.0500	0.05616		mg/Kg		112	61 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*69 - 130*
Dibromofluoromethane	*104*		*63 - 139*
Toluene-d8 (Surr)	*101*		*67 - 138*

Lab Sample ID: 660-88935-E-3-A MS
Matrix: Solid
Analysis Batch: 199824

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 199832

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.00320	U	0.0685	0.08152		mg/Kg	☼	119	62 - 130
Toluene	0.00369	U	0.0685	0.08388		mg/Kg	☼	122	76 - 130
Ethylbenzene	0.00280	U	0.0685	0.07869		mg/Kg	☼	115	68 - 130
Xylenes, Total	0.00270	U	0.137	0.1630		mg/Kg	☼	119	63 - 130
Methyl tert-butyl ether	0.00152	U	0.0685	0.08088		mg/Kg	☼	118	61 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*69 - 130*
Dibromofluoromethane	*100*		*63 - 139*
Toluene-d8 (Surr)	*103*		*67 - 138*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 660-88935-G-2-B DU
Matrix: Solid
Analysis Batch: 199824

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 199832

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Benzene	0.00319	U	0.00325	U	mg/Kg	☼	NC	40
Toluene	0.00369	U	0.00375	U	mg/Kg	☼	NC	40
Ethylbenzene	0.00280	U	0.00284	U	mg/Kg	☼	NC	40
Xylenes, Total	0.00270	U	0.00275	U	mg/Kg	☼	NC	40
Methyl tert-butyl ether	0.00152	U	0.00155	U	mg/Kg	☼	NC	40

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*69 - 130*
Dibromofluoromethane	*108*		*63 - 139*
Toluene-d8 (Surr)	*106*		*67 - 138*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 660-199810/1-A
Matrix: Solid
Analysis Batch: 199821

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 199810

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.00142	U	0.00667	0.00142	mg/Kg		08/13/18 13:30	08/14/18 12:53	1
Acenaphthylene	0.00145	U	0.00667	0.00145	mg/Kg		08/13/18 13:30	08/14/18 12:53	1
Anthracene	0.000609	U	0.00667	0.000609	mg/Kg		08/13/18 13:30	08/14/18 12:53	1
Benzo[a]anthracene	0.00150	U	0.00667	0.00150	mg/Kg		08/13/18 13:30	08/14/18 12:53	1
Benzo[a]pyrene	0.00161	U	0.00667	0.00161	mg/Kg		08/13/18 13:30	08/14/18 12:53	1
Benzo[b]fluoranthene	0.00160	U	0.00667	0.00160	mg/Kg		08/13/18 13:30	08/14/18 12:53	1
Benzo[g,h,i]perylene	0.00163	U	0.00667	0.00163	mg/Kg		08/13/18 13:30	08/14/18 12:53	1
Benzo[k]fluoranthene	0.00184	U	0.00667	0.00184	mg/Kg		08/13/18 13:30	08/14/18 12:53	1
Chrysene	0.00155	U	0.00667	0.00155	mg/Kg		08/13/18 13:30	08/14/18 12:53	1
Dibenz(a,h)anthracene	0.00161	U	0.00667	0.00161	mg/Kg		08/13/18 13:30	08/14/18 12:53	1
Fluoranthene	0.00113	U	0.00667	0.00113	mg/Kg		08/13/18 13:30	08/14/18 12:53	1
Fluorene	0.00143	U	0.00667	0.00143	mg/Kg		08/13/18 13:30	08/14/18 12:53	1
Indeno[1,2,3-cd]pyrene	0.00150	U	0.00667	0.00150	mg/Kg		08/13/18 13:30	08/14/18 12:53	1
1-Methylnaphthalene	0.00172	U	0.00667	0.00172	mg/Kg		08/13/18 13:30	08/14/18 12:53	1
2-Methylnaphthalene	0.00300	U	0.00996	0.00300	mg/Kg		08/13/18 13:30	08/14/18 12:53	1
Naphthalene	0.00313	U	0.00996	0.00313	mg/Kg		08/13/18 13:30	08/14/18 12:53	1
Phenanthrene	0.006180	I	0.00996	0.00296	mg/Kg		08/13/18 13:30	08/14/18 12:53	1
Pyrene	0.00158	U	0.00667	0.00158	mg/Kg		08/13/18 13:30	08/14/18 12:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluoranthene-d10	*84*		*25 - 150*	*08/13/18 13:30*	*08/14/18 12:53*	*1*
2-methylnaphthalene-d10	*75*		*20 - 150*	*08/13/18 13:30*	*08/14/18 12:53*	*1*

Lab Sample ID: LCS 660-199810/2-A
Matrix: Solid
Analysis Batch: 199821

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 199810

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.334	0.2439		mg/Kg		73	33 - 112

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 660-199810/2-A
Matrix: Solid
Analysis Batch: 199821

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 199810

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	0.334	0.2338		mg/Kg		70	35 - 113
Anthracene	0.334	0.2462		mg/Kg		74	43 - 115
Benzo[a]anthracene	0.334	0.2600		mg/Kg		78	47 - 129
Benzo[a]pyrene	0.334	0.2531		mg/Kg		76	51 - 123
Benzo[b]fluoranthene	0.334	0.2666		mg/Kg		80	51 - 125
Benzo[g,h,i]perylene	0.334	0.2695		mg/Kg		81	40 - 127
Benzo[k]fluoranthene	0.334	0.2847		mg/Kg		85	45 - 125
Chrysene	0.334	0.2640		mg/Kg		79	45 - 127
Dibenz(a,h)anthracene	0.334	0.2703		mg/Kg		81	44 - 128
Fluoranthene	0.334	0.2557		mg/Kg		77	41 - 120
Fluorene	0.334	0.2431		mg/Kg		73	36 - 118
Indeno[1,2,3-cd]pyrene	0.334	0.2644		mg/Kg		79	44 - 126
1-Methylnaphthalene	0.334	0.2289		mg/Kg		69	30 - 113
2-Methylnaphthalene	0.334	0.2277		mg/Kg		68	29 - 112
Naphthalene	0.334	0.2169		mg/Kg		65	31 - 114
Phenanthrene	0.334	0.2514		mg/Kg		75	40 - 116
Pyrene	0.334	0.2718		mg/Kg		81	45 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Fluoranthene-d10	*80*		*25 - 150*
2-methylnaphthalene-d10	*72*		*20 - 150*

Lab Sample ID: 660-88901-3 MS
Matrix: Solid
Analysis Batch: 199821

Client Sample ID: Dispenser 5/6@3ft
Prep Type: Total/NA
Prep Batch: 199810

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.00169	U	0.393	0.2892		mg/Kg	☼	74	33 - 112
Acenaphthylene	0.00173	U	0.393	0.2908		mg/Kg	☼	74	35 - 113
Anthracene	0.000723	U	0.393	0.3086		mg/Kg	☼	78	43 - 115
Benzo[a]anthracene	0.00179	U	0.393	0.3250		mg/Kg	☼	83	47 - 129
Benzo[a]pyrene	0.00192	U	0.393	0.3143		mg/Kg	☼	80	51 - 123
Benzo[b]fluoranthene	0.00191	U	0.393	0.3375		mg/Kg	☼	86	51 - 125
Benzo[g,h,i]perylene	0.00194	U	0.393	0.3324		mg/Kg	☼	85	40 - 127
Benzo[k]fluoranthene	0.00219	U	0.393	0.3233		mg/Kg	☼	82	45 - 125
Chrysene	0.00185	U	0.393	0.3210		mg/Kg	☼	82	45 - 127
Dibenz(a,h)anthracene	0.00192	U	0.393	0.3344		mg/Kg	☼	85	44 - 128
Fluoranthene	0.00134	U	0.393	0.3196		mg/Kg	☼	81	41 - 120
Fluorene	0.00170	U	0.393	0.3025		mg/Kg	☼	77	36 - 118
Indeno[1,2,3-cd]pyrene	0.00179	U	0.393	0.3404		mg/Kg	☼	87	44 - 126
1-Methylnaphthalene	0.00205	U	0.393	0.2741		mg/Kg	☼	70	30 - 113
2-Methylnaphthalene	0.00356	U	0.393	0.2781		mg/Kg	☼	71	29 - 112
Naphthalene	0.00372	U	0.393	0.2603		mg/Kg	☼	66	31 - 114
Phenanthrene	0.00978	I V	0.393	0.3117		mg/Kg	☼	77	40 - 116
Pyrene	0.00188	U	0.393	0.3322		mg/Kg	☼	84	45 - 127

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 660-88901-3 MS
Matrix: Solid
Analysis Batch: 199821

Client Sample ID: Dispenser 5/6@3ft
Prep Type: Total/NA
Prep Batch: 199810

Surrogate	MS %Recovery	MS Qualifier	Limits
Fluoranthene-d10	*84*		*25 - 150*
2-methylnaphthalene-d10	*72*		*20 - 150*

Lab Sample ID: 660-88901-3 MSD
Matrix: Solid
Analysis Batch: 199821

Client Sample ID: Dispenser 5/6@3ft
Prep Type: Total/NA
Prep Batch: 199810

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	0.00169	U	0.392	0.2791		mg/Kg	☼	71	33 - 112	4	30
Acenaphthylene	0.00173	U	0.392	0.2791		mg/Kg	☼	71	35 - 113	4	30
Anthracene	0.000723	U	0.392	0.2931		mg/Kg	☼	75	43 - 115	5	30
Benzo[a]anthracene	0.00179	U	0.392	0.3071		mg/Kg	☼	78	47 - 129	6	30
Benzo[a]pyrene	0.00192	U	0.392	0.2950		mg/Kg	☼	75	51 - 123	6	30
Benzo[b]fluoranthene	0.00191	U	0.392	0.3051		mg/Kg	☼	78	51 - 125	10	30
Benzo[g,h,i]perylene	0.00194	U	0.392	0.3074		mg/Kg	☼	78	40 - 127	8	30
Benzo[k]fluoranthene	0.00219	U	0.392	0.3164		mg/Kg	☼	81	45 - 125	2	30
Chrysene	0.00185	U	0.392	0.2985		mg/Kg	☼	76	45 - 127	7	30
Dibenz(a,h)anthracene	0.00192	U	0.392	0.3120		mg/Kg	☼	80	44 - 128	7	30
Fluoranthene	0.00134	U	0.392	0.3034		mg/Kg	☼	77	41 - 120	5	30
Fluorene	0.00170	U	0.392	0.2876		mg/Kg	☼	73	36 - 118	5	30
Indeno[1,2,3-cd]pyrene	0.00179	U	0.392	0.3149		mg/Kg	☼	80	44 - 126	8	30
1-Methylnaphthalene	0.00205	U	0.392	0.2630		mg/Kg	☼	67	30 - 113	4	30
2-Methylnaphthalene	0.00356	U	0.392	0.2603		mg/Kg	☼	66	29 - 112	7	30
Naphthalene	0.00372	U	0.392	0.2478		mg/Kg	☼	63	31 - 114	5	30
Phenanthrene	0.00978	I V	0.392	0.2975		mg/Kg	☼	73	40 - 116	5	30
Pyrene	0.00188	U	0.392	0.3076		mg/Kg	☼	79	45 - 127	8	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Fluoranthene-d10	*80*		*25 - 150*
2-methylnaphthalene-d10	*70*		*20 - 150*

Method: FL-PRO - Florida - Petroleum Range Organics (GC)

Lab Sample ID: MB 660-199846/1-A
Matrix: Solid
Analysis Batch: 199895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 199846

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FL PRO	2.97	U	12.0	2.97	mg/Kg		08/14/18 11:33	08/15/18 11:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*81*		*62 - 109*	*08/14/18 11:33*	*08/15/18 11:21*	*1*
n-C39	*96*		*60 - 118*	*08/14/18 11:33*	*08/15/18 11:21*	*1*

Method: FL-PRO - Florida - Petroleum Range Organics (GC) (Continued)

Lab Sample ID: LCS 660-199846/2-A
Matrix: Solid
Analysis Batch: 199895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 199846

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
FL PRO			67.8	58.74		mg/Kg		87	63 - 153		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*83*		*62 - 109*
n-C39	*104*		*60 - 118*

GC/MS VOA

Prep Batch: 199761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-88901-1	Dispenser 1/2@3ft	Total/NA	Solid	5035	
660-88901-2	Dispenser 3/4@3ft	Total/NA	Solid	5035	
660-88901-3	Dispenser 5/6@3ft	Total/NA	Solid	5035	
660-88901-4	Dispenser 7/8@3ft	Total/NA	Solid	5035	
660-88901-5	Dispenser 9/10@3ft	Total/NA	Solid	5035	
660-88901-6	Dispenser 11/12@3ft	Total/NA	Solid	5035	

Analysis Batch: 199824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-88901-1	Dispenser 1/2@3ft	Total/NA	Solid	8260B	199761
660-88901-2	Dispenser 3/4@3ft	Total/NA	Solid	8260B	199761
660-88901-3	Dispenser 5/6@3ft	Total/NA	Solid	8260B	199761
660-88901-4	Dispenser 7/8@3ft	Total/NA	Solid	8260B	199761
660-88901-5	Dispenser 9/10@3ft	Total/NA	Solid	8260B	199761
660-88901-6	Dispenser 11/12@3ft	Total/NA	Solid	8260B	199761
MB 660-199824/6	Method Blank	Total/NA	Solid	8260B	
LCS 660-199824/4	Lab Control Sample	Total/NA	Solid	8260B	
660-88935-E-3-A MS	Matrix Spike	Total/NA	Solid	8260B	199832
660-88935-G-2-B DU	Duplicate	Total/NA	Solid	8260B	199832

Prep Batch: 199832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-88935-E-3-A MS	Matrix Spike	Total/NA	Solid	5035	
660-88935-G-2-B DU	Duplicate	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 199810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-88901-1	Dispenser 1/2@3ft	Total/NA	Solid	3546	
660-88901-2	Dispenser 3/4@3ft	Total/NA	Solid	3546	
660-88901-3	Dispenser 5/6@3ft	Total/NA	Solid	3546	
660-88901-4	Dispenser 7/8@3ft	Total/NA	Solid	3546	
660-88901-5	Dispenser 9/10@3ft	Total/NA	Solid	3546	
660-88901-6	Dispenser 11/12@3ft	Total/NA	Solid	3546	
MB 660-199810/1-A	Method Blank	Total/NA	Solid	3546	
LCS 660-199810/2-A	Lab Control Sample	Total/NA	Solid	3546	
660-88901-3 MS	Dispenser 5/6@3ft	Total/NA	Solid	3546	
660-88901-3 MSD	Dispenser 5/6@3ft	Total/NA	Solid	3546	

Analysis Batch: 199821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-88901-1	Dispenser 1/2@3ft	Total/NA	Solid	8270D SIM	199810
660-88901-3	Dispenser 5/6@3ft	Total/NA	Solid	8270D SIM	199810
660-88901-5	Dispenser 9/10@3ft	Total/NA	Solid	8270D SIM	199810
660-88901-6	Dispenser 11/12@3ft	Total/NA	Solid	8270D SIM	199810
MB 660-199810/1-A	Method Blank	Total/NA	Solid	8270D SIM	199810
LCS 660-199810/2-A	Lab Control Sample	Total/NA	Solid	8270D SIM	199810
660-88901-3 MS	Dispenser 5/6@3ft	Total/NA	Solid	8270D SIM	199810
660-88901-3 MSD	Dispenser 5/6@3ft	Total/NA	Solid	8270D SIM	199810

GC/MS Semi VOA (Continued)

Analysis Batch: 199826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-88901-2	Dispenser 3/4@3ft	Total/NA	Solid	8270D SIM	199810
660-88901-4	Dispenser 7/8@3ft	Total/NA	Solid	8270D SIM	199810

GC Semi VOA

Prep Batch: 199846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-88901-1	Dispenser 1/2@3ft	Total/NA	Solid	3550B	
660-88901-2	Dispenser 3/4@3ft	Total/NA	Solid	3550B	
660-88901-3	Dispenser 5/6@3ft	Total/NA	Solid	3550B	
660-88901-4	Dispenser 7/8@3ft	Total/NA	Solid	3550B	
660-88901-5	Dispenser 9/10@3ft	Total/NA	Solid	3550B	
660-88901-6	Dispenser 11/12@3ft	Total/NA	Solid	3550B	
MB 660-199846/1-A	Method Blank	Total/NA	Solid	3550B	
LCS 660-199846/2-A	Lab Control Sample	Total/NA	Solid	3550B	

Analysis Batch: 199895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-88901-1	Dispenser 1/2@3ft	Total/NA	Solid	FL-PRO	199846
660-88901-2	Dispenser 3/4@3ft	Total/NA	Solid	FL-PRO	199846
660-88901-3	Dispenser 5/6@3ft	Total/NA	Solid	FL-PRO	199846
660-88901-4	Dispenser 7/8@3ft	Total/NA	Solid	FL-PRO	199846
660-88901-5	Dispenser 9/10@3ft	Total/NA	Solid	FL-PRO	199846
660-88901-6	Dispenser 11/12@3ft	Total/NA	Solid	FL-PRO	199846
MB 660-199846/1-A	Method Blank	Total/NA	Solid	FL-PRO	199846
LCS 660-199846/2-A	Lab Control Sample	Total/NA	Solid	FL-PRO	199846

General Chemistry

Analysis Batch: 199787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-88901-1	Dispenser 1/2@3ft	Total/NA	Solid	Moisture	
660-88901-2	Dispenser 3/4@3ft	Total/NA	Solid	Moisture	
660-88901-3	Dispenser 5/6@3ft	Total/NA	Solid	Moisture	
660-88901-4	Dispenser 7/8@3ft	Total/NA	Solid	Moisture	
660-88936-A-1 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 199793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-88901-5	Dispenser 9/10@3ft	Total/NA	Solid	Moisture	
660-88901-6	Dispenser 11/12@3ft	Total/NA	Solid	Moisture	
660-88901-5 DU	Dispenser 9/10@3ft	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Aptim Environmental & Infrastructure Inc
Project/Site: 7-11 No 37926.TP(FL)

TestAmerica Job ID: 660-88901-1

Client Sample ID: Dispenser 1/2@3ft
Lab Sample ID: 660-88901-1
Date Collected: 08/09/18 14:50
Matrix: Solid
Date Received: 08/10/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	199787	08/13/18 07:08	AJG	TAL TAM

Client Sample ID: Dispenser 1/2@3ft
Lab Sample ID: 660-88901-1
Date Collected: 08/09/18 14:50
Matrix: Solid
Date Received: 08/10/18 09:50
Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			199761	08/11/18 15:39	ECC	TAL TAM
Total/NA	Analysis	8260B		1	199824	08/14/18 13:19	ECC	TAL TAM
Total/NA	Prep	3546			199810	08/13/18 13:30	EM	TAL TAM
Total/NA	Analysis	8270D SIM		1	199821	08/14/18 13:36	MWJ	TAL TAM
Total/NA	Prep	3550B			199846	08/14/18 11:33	ESJ	TAL TAM
Total/NA	Analysis	FL-PRO		1	199895	08/15/18 12:00	PC1	TAL TAM

Client Sample ID: Dispenser 3/4@3ft
Lab Sample ID: 660-88901-2
Date Collected: 08/09/18 14:40
Matrix: Solid
Date Received: 08/10/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	199787	08/13/18 07:42	AJG	TAL TAM

Client Sample ID: Dispenser 3/4@3ft
Lab Sample ID: 660-88901-2
Date Collected: 08/09/18 14:40
Matrix: Solid
Date Received: 08/10/18 09:50
Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			199761	08/11/18 15:40	ECC	TAL TAM
Total/NA	Analysis	8260B		1	199824	08/14/18 13:38	ECC	TAL TAM
Total/NA	Prep	3546			199810	08/13/18 13:30	EM	TAL TAM
Total/NA	Analysis	8270D SIM		1	199826	08/14/18 14:05	MWJ	TAL TAM
Total/NA	Prep	3550B			199846	08/14/18 11:33	ESJ	TAL TAM
Total/NA	Analysis	FL-PRO		1	199895	08/15/18 12:19	PC1	TAL TAM

Client Sample ID: Dispenser 5/6@3ft
Lab Sample ID: 660-88901-3
Date Collected: 08/09/18 14:30
Matrix: Solid
Date Received: 08/10/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	199787	08/13/18 08:09	AJG	TAL TAM

Lab Chronicle

Client: Aptim Environmental & Infrastructure Inc
Project/Site: 7-11 No 37926.TP(FL)

TestAmerica Job ID: 660-88901-1

Client Sample ID: Dispenser 5/6@3ft

Lab Sample ID: 660-88901-3
Date Collected: 08/09/18 14:30
Matrix: Solid
Date Received: 08/10/18 09:50
Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			199761	08/11/18 15:41	ECC	TAL TAM
Total/NA	Analysis	8260B		1	199824	08/14/18 13:56	ECC	TAL TAM
Total/NA	Prep	3546			199810	08/13/18 13:30	EM	TAL TAM
Total/NA	Analysis	8270D SIM		1	199821	08/14/18 13:56	MWJ	TAL TAM
Total/NA	Prep	3550B			199846	08/14/18 11:33	ESJ	TAL TAM
Total/NA	Analysis	FL-PRO		1	199895	08/15/18 12:38	PC1	TAL TAM

Client Sample ID: Dispenser 7/8@3ft

Lab Sample ID: 660-88901-4
Date Collected: 08/09/18 13:30
Matrix: Solid
Date Received: 08/10/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	199787	08/13/18 08:53	AJG	TAL TAM

Client Sample ID: Dispenser 7/8@3ft

Lab Sample ID: 660-88901-4
Date Collected: 08/09/18 13:30
Matrix: Solid
Date Received: 08/10/18 09:50
Percent Solids: 66.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			199761	08/11/18 15:41	ECC	TAL TAM
Total/NA	Analysis	8260B		1	199824	08/14/18 14:15	ECC	TAL TAM
Total/NA	Prep	3546			199810	08/13/18 13:30	EM	TAL TAM
Total/NA	Analysis	8270D SIM		1	199826	08/14/18 14:27	MWJ	TAL TAM
Total/NA	Prep	3550B			199846	08/14/18 11:33	ESJ	TAL TAM
Total/NA	Analysis	FL-PRO		1	199895	08/15/18 12:57	PC1	TAL TAM

Client Sample ID: Dispenser 9/10@3ft

Lab Sample ID: 660-88901-5
Date Collected: 08/09/18 13:15
Matrix: Solid
Date Received: 08/10/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	199793	08/13/18 09:27	AJG	TAL TAM

Client Sample ID: Dispenser 9/10@3ft

Lab Sample ID: 660-88901-5
Date Collected: 08/09/18 13:15
Matrix: Solid
Date Received: 08/10/18 09:50
Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			199761	08/11/18 15:43	ECC	TAL TAM
Total/NA	Analysis	8260B		1	199824	08/14/18 14:34	ECC	TAL TAM
Total/NA	Prep	3546			199810	08/13/18 13:30	EM	TAL TAM
Total/NA	Analysis	8270D SIM		1	199821	08/14/18 14:57	MWJ	TAL TAM
Total/NA	Prep	3550B			199846	08/14/18 11:33	ESJ	TAL TAM

Lab Chronicle

Client: Aptim Environmental & Infrastructure Inc
Project/Site: 7-11 No 37926.TP(FL)

TestAmerica Job ID: 660-88901-1

Client Sample ID: Dispenser 9/10@3ft

Lab Sample ID: 660-88901-5
Date Collected: 08/09/18 13:15
Matrix: Solid
Date Received: 08/10/18 09:50
Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	FL-PRO		1	199895	08/15/18 13:17	PC1	TAL TAM

Client Sample ID: Dispenser 11/12@3ft

Lab Sample ID: 660-88901-6
Date Collected: 08/09/18 13:00
Matrix: Solid
Date Received: 08/10/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	199793	08/13/18 09:45	AJG	TAL TAM

Client Sample ID: Dispenser 11/12@3ft

Lab Sample ID: 660-88901-6
Date Collected: 08/09/18 13:00
Matrix: Solid
Date Received: 08/10/18 09:50
Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			199761	08/11/18 15:44	ECC	TAL TAM
Total/NA	Analysis	8260B		1	199824	08/14/18 14:53	ECC	TAL TAM
Total/NA	Prep	3546			199810	08/13/18 13:30	EM	TAL TAM
Total/NA	Analysis	8270D SIM		1	199821	08/14/18 15:18	MWJ	TAL TAM
Total/NA	Prep	3550B			199846	08/14/18 11:33	ESJ	TAL TAM
Total/NA	Analysis	FL-PRO		1	199895	08/15/18 13:36	PC1	TAL TAM

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Method Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: 7-11 No 37926.TP(FL)

TestAmerica Job ID: 660-88901-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL TAM
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL TAM
FL-PRO	Florida - Petroleum Range Organics (GC)	FL-DEP	TAL TAM
Moisture	Percent Moisture	EPA	TAL TAM
3546	Microwave Extraction	SW846	TAL TAM
3550B	Ultrasonic Extraction	SW846	TAL TAM
5035	Closed System Purge and Trap	SW846	TAL TAM

Protocol References:

EPA = US Environmental Protection Agency

FL-DEP = State Of Florida Department Of Environmental Protection, Florida Administrative Code.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Accreditation/Certification Summary

Client: Aptim Environmental & Infrastructure Inc
TestAmerica Job ID: 660-88901-1
Project/Site: 7-11 No 37926.TP(FL)

Laboratory: TestAmerica Tampa

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Florida	NELAP	4	E84282	06-30-19

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Solids

Laboratory: TestAmerica Nashville

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Florida	NELAP	4	E87358	06-30-19

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Kennerly McVeigh	Lab PM: Huckaba, Jimmy	Carrier Tracking No(s):	COC No: 490-88040-25511.2
Client Contact: Ms. Nancy O'Grady	Phone:	E-Mail: jimmy.huckaba@testamericainc.com		Page: Page 2 of 2 → 1 of 1
Company: Aptim Environmental & Infrastructure Inc				Job #:
Address: 5725 NW 159th Street	Due Date Requested:			
City: Miami Lakes	TAT Requested (days): 72 hr TAT			
State, Zip: FL, 33014				
Phone: 813-612-3609(Tel)	PO #: Purchase Order Requested			
Email: nancy.ogrady@aptim.com	WO #:			
Project Name: 7-11 No 37926.TP(FL)	Project #: 49008084			
Site:	SSOW#:			

660-88901 Chain of Custody

Loc: 660
88901

Analysis Requested

Preservation Codes:
A - HCL
M - Hexane
L - EDA
Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - Standard 8260 List (VOA/VOH) (water)	FL_PRO (Water)	8270D_SIM - 8270D SIM PAH List (Water)	504.1 - EDB only (water)	6010C - Pb (Water)	8260B - BTEX + MTBE (Sh	8270 PAH (Soil)	FL_PRO - FLPRO (Soil)	8260B - SPLP BTEX + MTI	8270D_SIM - SPLP SIMS F	MAVPH - Massachusetts	MAEPH - MA EPH (Hold)	Total Number of contai	Special Instructions/Note:
			Preservation Code:																	
Dispenser 1/2 @ 3ft	8.9.18	1450	G	Solid								X	X	X	X	X	X	X		7-11 Pricing
Dispenser 3/4 @ 3ft		1440		Solid																
Dispenser 5/6 @ 3ft		1430		Solid																72 hr TAT
Dispenser 7/8 @ 3ft		1330		Solid																
Dispenser 9/10 @ 3ft		1315		~~Water~~																
Dispenser 11/12 @ 3ft		1300		~~Water~~																

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date: 8/7/18	Time: 844	Method of Shipment: client

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
					8-10-18 0950	TA TAM
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No
Custody Seal No.: N/A
Cooler Temperature(s) °C and Other Remarks: 0.6/0.8 4.6/4.8 CW09

Ver: 08/04/2016

8/15/2018

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

660-88901 Chain of Custody

COOLER RECEIPT FORM

Cooler Received/Opened On 8/11/2018 @ 1045

Time Samples Removed From Cooler 1246 Time Samples Placed In Storage 1248 (2 Hour Window)

1. Tracking # 3181 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 17960357 pH Strip Lot NA Chlorine Strip Lot NA

2. Temperature of rep. sample or temp blank when opened: 1.8 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES..NO...NA

If yes, how many and where:

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES..NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) GH

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES..NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

Larger than this.

14. Was there a Trip Blank in this cooler? YES..NO...NA If multiple coolers, sequence #

I certify that I unloaded the cooler and answered questions 7-14 (intial) GH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES..NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) GH

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) GH

I certify that I attached a label with the unique LIMS number to each container (intial) GH

21. Were there Non-Conformance issues at login? YES..NO Was a NCM generated? YES..NO..#

BIS = Broken in shipment

TestAmerica Tampa
6712 Benjamin Road Suite 100
Tampa, FL 33634
Phone (813) 885-7427 Fax (813) 885-7049

Chain of Custody Record

Loc: 660
88901

TestAmerica
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Inc

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huckaba, Jimmy		COC No: 660-106988.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jimmy.huckaba@testamericainc.com	State of Florida	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): NELAP - Florida		Job #: 660-88901-1
Address: 2960 Foster Creighton Drive, ,	Due Date Requested: 8/15/2018			
City: Nashville	TAT Requested (days):			
State, Zip: TN, 37204				
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:			
Email:	WO #:			
Project Name: 7-11 No 37926.TP(FL)	Project #: 49008084			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAEPH/3541 MA EPH (Hold)	MAEPH_Calc/ MAEPH Calculation (Hold)	MAVPH/5035FM_Calc Massachusetts VPH (Hold)	MAVPH_Calc/ Massachusetts Adjusted VPH (Hold)	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
Dispenser 1/2@3ft (660-88901-1)	8/9/18	14:50 Eastern		Solid			X	X	X	X	2	Loc: 660 88901
Dispenser 3/4@3ft (660-88901-2)	8/9/18	14:40 Eastern		Solid			X	X	X	X	2	
Dispenser 5/6@3ft (660-88901-3)	8/9/18	14:30 Eastern		Solid			X	X	X	X	2	
Dispenser 7/8@3ft (660-88901-4)	8/9/18	13:30 Eastern		Solid			X	X	X	X	2	
Dispenser 9/10@3ft (660-88901-5)	8/9/18	13:15 Eastern		Solid			X	X	X	X	2	
Dispenser 11/12@3ft (660-88901-6)	8/9/18	13:00 Eastern		Solid			X	X	X	X	2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 8-10-18 @ 1700	Company TA TAM	Received by:		Date/Time: 8-11-18/1045	Company TA-NA	
Relinquished by:	Date/Time:	Company	Received by:		Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:		Date/Time:	Company	
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	1.8			

Ver: 09/20/2016

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Tampa
6712 Benjamin Road
Suite 100
Tampa, FL 33634
Tel: (813)885-7427

TestAmerica Job ID: 660-88935-1
Client Project/Site: 7-11 No 37926(FL)

For:
Aptim Environmental & Infrastructure Inc
5725 NW 159th Street
Miami Lakes, Florida 33014

Attn: Mr. Brett Bohentin

Authorized for release by:
8/15/2018 4:53:58 PM
Leah Klingensmith, Senior Project Manager
(615)301-5038
leah.klingensmith@testamericainc.com

Designee for

Jimmy Huckaba, Project Manager I
(615)301-5746
jimmy.huckaba@testamericainc.com

LINKS

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Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: 7-11 No 37926(FL)

TestAmerica Job ID: 660-88935-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-88935-1	OSB-1 North@2ft	Solid	08/10/18 12:00	08/10/18 15:39
660-88935-2	OSB-2 South@2.5ft	Solid	08/10/18 12:10	08/10/18 15:39
660-88935-3	STP-1 South@2ft	Solid	08/10/18 12:20	08/10/18 15:39
660-88935-4	STP-2 South@2ft	Solid	08/10/18 12:30	08/10/18 15:39
660-88935-5	MW-South	Water	08/10/18 10:20	08/10/18 15:39

Job ID: 660-88935-1

Laboratory: TestAmerica Tampa

Narrative

Job Narrative
660-88935-1

Comments
No additional comments.

Receipt
The samples were received on 8/10/2018 3:39 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.0º C and 2.2º C.

GC/MS VOA
Method(s) 8260B: The following sample was diluted to bring the concentration of target analytes within the calibration range: OSB-1 North@2ft (660-88935-1). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The following samples analyzed for method 8260B were analyzed from an unpreserved bulk soil jar: OSB-1 North@2ft (660-88935-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D SIM: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample: OSB-1 North@2ft (660-88935-1).

Method(s) 8270D SIM: The following sample required a dilution due to the nature of the sample matrix: OSB-1 North@2ft (660-88935-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) FL-PRO: Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MW-South (660-88935-5), (LCS 660-199803/2-A), (LCSD 660-199803/3-A) and (660-88935-A-5-B MS). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

GC/MS Semi VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Indicates that the compound was analyzed for but not detected.
D1	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J1	Estimated value; value may not be accurate. Surrogate recovery outside of criteria.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample ID: OSB-1 North@2ft

Date Collected: 08/10/18 12:00
Date Received: 08/10/18 15:39

Lab Sample ID: 660-88935-1

Matrix: Solid
Percent Solids: 94.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	6.88	U	20.9	6.88	mg/Kg	☼	08/14/18 09:00	08/15/18 14:50	2000
Toluene	**21.0**	**I**	31.3	7.94	mg/Kg	☼	08/14/18 09:00	08/15/18 14:50	2000
Ethylbenzene	**29.5**		20.9	6.03	mg/Kg	☼	08/14/18 09:00	08/15/18 14:50	2000
Xylenes, Total	**201**		31.3	5.82	mg/Kg	☼	08/14/18 09:00	08/15/18 14:50	2000
Methyl tert-butyl ether	3.27	U	20.9	3.27	mg/Kg	☼	08/14/18 09:00	08/15/18 14:50	2000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*67 - 138*	*08/14/18 09:00*	*08/15/18 14:50*	*2000*
Dibromofluoromethane	*100*		*63 - 139*	*08/14/18 09:00*	*08/15/18 14:50*	*2000*
4-Bromofluorobenzene	*99*		*69 - 130*	*08/14/18 09:00*	*08/15/18 14:50*	*2000*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**221**	**I**	351	74.9	ug/Kg	☼	08/14/18 12:53	08/15/18 11:04	50
Acenaphthylene	**120**	**I**	351	76.5	ug/Kg	☼	08/14/18 12:53	08/15/18 11:04	50
Anthracene	**110**	**I**	351	32.0	ug/Kg	☼	08/14/18 12:53	08/15/18 11:04	50
Benzo[a]anthracene	79.1	U	351	79.1	ug/Kg	☼	08/14/18 12:53	08/15/18 11:04	50
Benzo[a]pyrene	84.8	U	351	84.8	ug/Kg	☼	08/14/18 12:53	08/15/18 11:04	50
Benzo[b]fluoranthene	84.3	U	351	84.3	ug/Kg	☼	08/14/18 12:53	08/15/18 11:04	50
Benzo[g,h,i]perylene	85.9	U	351	85.9	ug/Kg	☼	08/14/18 12:53	08/15/18 11:04	50
Benzo[k]fluoranthene	96.9	U	351	96.9	ug/Kg	☼	08/14/18 12:53	08/15/18 11:04	50
Chrysene	81.7	U	351	81.7	ug/Kg	☼	08/14/18 12:53	08/15/18 11:04	50
Dibenz(a,h)anthracene	84.8	U	351	84.8	ug/Kg	☼	08/14/18 12:53	08/15/18 11:04	50
Fluoranthene	59.2	U	351	59.2	ug/Kg	☼	08/14/18 12:53	08/15/18 11:04	50
Fluorene	**194**	**I**	351	75.4	ug/Kg	☼	08/14/18 12:53	08/15/18 11:04	50
Indeno[1,2,3-cd]pyrene	79.1	U	351	79.1	ug/Kg	☼	08/14/18 12:53	08/15/18 11:04	50
1-Methylnaphthalene	**20800**		351	90.6	ug/Kg	☼	08/14/18 12:53	08/15/18 11:04	50
Naphthalene	**32100**		524	164	ug/Kg	☼	08/14/18 12:53	08/15/18 11:04	50
Phenanthrene	**208**	**I**	524	156	ug/Kg	☼	08/14/18 12:53	08/15/18 11:04	50
Pyrene	83.3	U	351	83.3	ug/Kg	☼	08/14/18 12:53	08/15/18 11:04	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluoranthene-d10	*0*	*D1*	*25 - 150*	*08/14/18 12:53*	*08/15/18 11:04*	*50*
2-methylnaphthalene-d10	*0*	*D1*	*20 - 150*	*08/14/18 12:53*	*08/15/18 11:04*	*50*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**39400**		1050	315	ug/Kg	☼	08/14/18 12:53	08/15/18 12:09	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluoranthene-d10	*0*	*D1*	*25 - 150*	*08/14/18 12:53*	*08/15/18 12:09*	*100*
2-methylnaphthalene-d10	*0*	*D1*	*20 - 150*	*08/14/18 12:53*	*08/15/18 12:09*	*100*

Method: FL-PRO - Florida - Petroleum Range Organics (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FL PRO	**296**		12.7	3.14	mg/Kg	☼	08/14/18 11:33	08/15/18 11:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*105*		*62 - 109*	*08/14/18 11:33*	*08/15/18 11:40*	*1*
n-C39	*98*		*60 - 118*	*08/14/18 11:33*	*08/15/18 11:40*	*1*

Client Sample ID: OSB-2 South@2.5ft

Date Collected: 08/10/18 12:10
Date Received: 08/10/18 15:39

Lab Sample ID: 660-88935-2

Matrix: Solid
Percent Solids: 92.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00319	U	0.00968	0.00319	mg/Kg	☼	08/14/18 09:20	08/14/18 09:37	1
Toluene	0.00369	U	0.0145	0.00369	mg/Kg	☼	08/14/18 09:20	08/14/18 09:37	1
Ethylbenzene	0.00280	U	0.00968	0.00280	mg/Kg	☼	08/14/18 09:20	08/14/18 09:37	1
Xylenes, Total	0.00270	U	0.0145	0.00270	mg/Kg	☼	08/14/18 09:20	08/14/18 09:37	1
Methyl tert-butyl ether	0.00152	U	0.00968	0.00152	mg/Kg	☼	08/14/18 09:20	08/14/18 09:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*69 - 130*	*08/14/18 09:20*	*08/14/18 09:37*	*1*
Dibromofluoromethane	*101*		*63 - 139*	*08/14/18 09:20*	*08/14/18 09:37*	*1*
Toluene-d8 (Surr)	*97*		*67 - 138*	*08/14/18 09:20*	*08/14/18 09:37*	*1*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.56	U	7.29	1.56	ug/Kg	☼	08/14/18 12:53	08/15/18 09:59	1
Acenaphthylene	1.59	U	7.29	1.59	ug/Kg	☼	08/14/18 12:53	08/15/18 09:59	1
Anthracene	0.665	U	7.29	0.665	ug/Kg	☼	08/14/18 12:53	08/15/18 09:59	1
Benzo[a]anthracene	1.64	U	7.29	1.64	ug/Kg	☼	08/14/18 12:53	08/15/18 09:59	1
Benzo[a]pyrene	1.76	U	7.29	1.76	ug/Kg	☼	08/14/18 12:53	08/15/18 09:59	1
Benzo[b]fluoranthene	1.75	U	7.29	1.75	ug/Kg	☼	08/14/18 12:53	08/15/18 09:59	1
Benzo[g,h,i]perylene	1.79	U	7.29	1.79	ug/Kg	☼	08/14/18 12:53	08/15/18 09:59	1
Benzo[k]fluoranthene	2.01	U	7.29	2.01	ug/Kg	☼	08/14/18 12:53	08/15/18 09:59	1
Chrysene	1.70	U	7.29	1.70	ug/Kg	☼	08/14/18 12:53	08/15/18 09:59	1
Dibenz(a,h)anthracene	1.76	U	7.29	1.76	ug/Kg	☼	08/14/18 12:53	08/15/18 09:59	1
Fluoranthene	1.23	U	7.29	1.23	ug/Kg	☼	08/14/18 12:53	08/15/18 09:59	1
Fluorene	1.57	U	7.29	1.57	ug/Kg	☼	08/14/18 12:53	08/15/18 09:59	1
Indeno[1,2,3-cd]pyrene	1.64	U	7.29	1.64	ug/Kg	☼	08/14/18 12:53	08/15/18 09:59	1
1-Methylnaphthalene	**11.7**		7.29	1.88	ug/Kg	☼	08/14/18 12:53	08/15/18 09:59	1
2-Methylnaphthalene	**22.2**		10.9	3.28	ug/Kg	☼	08/14/18 12:53	08/15/18 09:59	1
Naphthalene	**35.9**		10.9	3.42	ug/Kg	☼	08/14/18 12:53	08/15/18 09:59	1
Phenanthrene	**5.72**	**I**	10.9	3.23	ug/Kg	☼	08/14/18 12:53	08/15/18 09:59	1
Pyrene	1.73	U	7.29	1.73	ug/Kg	☼	08/14/18 12:53	08/15/18 09:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluoranthene-d10	*93*		*25 - 150*	*08/14/18 12:53*	*08/15/18 09:59*	*1*
2-methylnaphthalene-d10	*75*		*20 - 150*	*08/14/18 12:53*	*08/15/18 09:59*	*1*

Method: FL-PRO - Florida - Petroleum Range Organics (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FL PRO	3.20	U	12.9	3.20	mg/Kg	☼	08/14/18 11:34	08/15/18 11:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*62 - 109*	*08/14/18 11:34*	*08/15/18 11:59*	*1*
n-C39	*91*		*60 - 118*	*08/14/18 11:34*	*08/15/18 11:59*	*1*

Client Sample ID: STP-1 South@2ft

Date Collected: 08/10/18 12:20
Date Received: 08/10/18 15:39

Lab Sample ID: 660-88935-3
Matrix: Solid
Percent Solids: 87.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00320	U	0.00968	0.00320	mg/Kg	☼	08/14/18 09:20	08/14/18 09:56	1
Toluene	0.00369	U	0.0145	0.00369	mg/Kg	☼	08/14/18 09:20	08/14/18 09:56	1
Ethylbenzene	0.00280	U	0.00968	0.00280	mg/Kg	☼	08/14/18 09:20	08/14/18 09:56	1
Xylenes, Total	0.00270	U	0.0145	0.00270	mg/Kg	☼	08/14/18 09:20	08/14/18 09:56	1
Methyl tert-butyl ether	0.00152	U	0.00968	0.00152	mg/Kg	☼	08/14/18 09:20	08/14/18 09:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*69 - 130*	*08/14/18 09:20*	*08/14/18 09:56*	*1*
Dibromofluoromethane	*101*		*63 - 139*	*08/14/18 09:20*	*08/14/18 09:56*	*1*
Toluene-d8 (Surr)	*100*		*67 - 138*	*08/14/18 09:20*	*08/14/18 09:56*	*1*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.65	U	7.73	1.65	ug/Kg	☼	08/14/18 12:53	08/15/18 10:21	1
Acenaphthylene	1.68	U	7.73	1.68	ug/Kg	☼	08/14/18 12:53	08/15/18 10:21	1
Anthracene	0.705	U	7.73	0.705	ug/Kg	☼	08/14/18 12:53	08/15/18 10:21	1
Benzo[a]anthracene	1.74	U	7.73	1.74	ug/Kg	☼	08/14/18 12:53	08/15/18 10:21	1
Benzo[a]pyrene	1.87	U	7.73	1.87	ug/Kg	☼	08/14/18 12:53	08/15/18 10:21	1
Benzo[b]fluoranthene	1.86	U	7.73	1.86	ug/Kg	☼	08/14/18 12:53	08/15/18 10:21	1
Benzo[g,h,i]perylene	1.89	U	7.73	1.89	ug/Kg	☼	08/14/18 12:53	08/15/18 10:21	1
Benzo[k]fluoranthene	2.13	U	7.73	2.13	ug/Kg	☼	08/14/18 12:53	08/15/18 10:21	1
Chrysene	1.80	U	7.73	1.80	ug/Kg	☼	08/14/18 12:53	08/15/18 10:21	1
Dibenz(a,h)anthracene	1.87	U	7.73	1.87	ug/Kg	☼	08/14/18 12:53	08/15/18 10:21	1
Fluoranthene	1.30	U	7.73	1.30	ug/Kg	☼	08/14/18 12:53	08/15/18 10:21	1
Fluorene	1.66	U	7.73	1.66	ug/Kg	☼	08/14/18 12:53	08/15/18 10:21	1
Indeno[1,2,3-cd]pyrene	1.74	U	7.73	1.74	ug/Kg	☼	08/14/18 12:53	08/15/18 10:21	1
1-Methylnaphthalene	**2.14**	**I**	7.73	2.00	ug/Kg	☼	08/14/18 12:53	08/15/18 10:21	1
2-Methylnaphthalene	**4.04**	**I**	11.5	3.47	ug/Kg	☼	08/14/18 12:53	08/15/18 10:21	1
Naphthalene	3.62	U	11.5	3.62	ug/Kg	☼	08/14/18 12:53	08/15/18 10:21	1
Phenanthrene	**6.36**	**I**	11.5	3.43	ug/Kg	☼	08/14/18 12:53	08/15/18 10:21	1
Pyrene	1.83	U	7.73	1.83	ug/Kg	☼	08/14/18 12:53	08/15/18 10:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluoranthene-d10	*88*		*25 - 150*	*08/14/18 12:53*	*08/15/18 10:21*	*1*
2-methylnaphthalene-d10	*75*		*20 - 150*	*08/14/18 12:53*	*08/15/18 10:21*	*1*

Method: FL-PRO - Florida - Petroleum Range Organics (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FL PRO	**3.83**	**I**	13.8	3.43	mg/Kg	☼	08/14/18 11:33	08/15/18 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*62 - 109*	*08/14/18 11:33*	*08/15/18 12:19*	*1*
n-C39	*96*		*60 - 118*	*08/14/18 11:33*	*08/15/18 12:19*	*1*

Client Sample ID: STP-2 South@2ft

Date Collected: 08/10/18 12:30
Date Received: 08/10/18 15:39

Lab Sample ID: 660-88935-4

Matrix: Solid
Percent Solids: 92.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00357	U	0.0108	0.00357	mg/Kg	☼	08/14/18 09:21	08/14/18 10:15	1
Toluene	0.00412	U	0.0162	0.00412	mg/Kg	☼	08/14/18 09:21	08/14/18 10:15	1
Ethylbenzene	0.00313	U	0.0108	0.00313	mg/Kg	☼	08/14/18 09:21	08/14/18 10:15	1
Xylenes, Total	0.00302	U	0.0162	0.00302	mg/Kg	☼	08/14/18 09:21	08/14/18 10:15	1
Methyl tert-butyl ether	0.00170	U	0.0108	0.00170	mg/Kg	☼	08/14/18 09:21	08/14/18 10:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*69 - 130*	*08/14/18 09:21*	*08/14/18 10:15*	*1*
Dibromofluoromethane	*102*		*63 - 139*	*08/14/18 09:21*	*08/14/18 10:15*	*1*
Toluene-d8 (Surr)	*100*		*67 - 138*	*08/14/18 09:21*	*08/14/18 10:15*	*1*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.56	U	7.32	1.56	ug/Kg	☼	08/14/18 12:53	08/15/18 10:42	1
Acenaphthylene	1.59	U	7.32	1.59	ug/Kg	☼	08/14/18 12:53	08/15/18 10:42	1
Anthracene	0.667	U	7.32	0.667	ug/Kg	☼	08/14/18 12:53	08/15/18 10:42	1
Benzo[a]anthracene	1.65	U	7.32	1.65	ug/Kg	☼	08/14/18 12:53	08/15/18 10:42	1
Benzo[a]pyrene	1.77	U	7.32	1.77	ug/Kg	☼	08/14/18 12:53	08/15/18 10:42	1
Benzo[b]fluoranthene	1.76	U	7.32	1.76	ug/Kg	☼	08/14/18 12:53	08/15/18 10:42	1
Benzo[g,h,i]perylene	1.79	U	7.32	1.79	ug/Kg	☼	08/14/18 12:53	08/15/18 10:42	1
Benzo[k]fluoranthene	2.02	U	7.32	2.02	ug/Kg	☼	08/14/18 12:53	08/15/18 10:42	1
Chrysene	1.70	U	7.32	1.70	ug/Kg	☼	08/14/18 12:53	08/15/18 10:42	1
Dibenz(a,h)anthracene	1.77	U	7.32	1.77	ug/Kg	☼	08/14/18 12:53	08/15/18 10:42	1
Fluoranthene	1.23	U	7.32	1.23	ug/Kg	☼	08/14/18 12:53	08/15/18 10:42	1
Fluorene	1.57	U	7.32	1.57	ug/Kg	☼	08/14/18 12:53	08/15/18 10:42	1
Indeno[1,2,3-cd]pyrene	1.65	U	7.32	1.65	ug/Kg	☼	08/14/18 12:53	08/15/18 10:42	1
1-Methylnaphthalene	1.89	U	7.32	1.89	ug/Kg	☼	08/14/18 12:53	08/15/18 10:42	1
2-Methylnaphthalene	3.29	U	10.9	3.29	ug/Kg	☼	08/14/18 12:53	08/15/18 10:42	1
Naphthalene	3.43	U	10.9	3.43	ug/Kg	☼	08/14/18 12:53	08/15/18 10:42	1
Phenanthrene	**5.90**	**I**	10.9	3.24	ug/Kg	☼	08/14/18 12:53	08/15/18 10:42	1
Pyrene	1.74	U	7.32	1.74	ug/Kg	☼	08/14/18 12:53	08/15/18 10:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluoranthene-d10	*91*		*25 - 150*	*08/14/18 12:53*	*08/15/18 10:42*	*1*
2-methylnaphthalene-d10	*79*		*20 - 150*	*08/14/18 12:53*	*08/15/18 10:42*	*1*

Method: FL-PRO - Florida - Petroleum Range Organics (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FL PRO	**3.21**	**I**	13.0	3.21	mg/Kg	☼	08/14/18 11:33	08/15/18 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*62 - 109*	*08/14/18 11:33*	*08/15/18 12:38*	*1*
n-C39	*96*		*60 - 118*	*08/14/18 11:33*	*08/15/18 12:38*	*1*

Client: Aptim Environmental & Infrastructure Inc
Project/Site: 7-11 No 37926(FL)

TestAmerica Job ID: 660-88935-1

Client Sample ID: MW-South
Date Collected: 08/10/18 10:20
Date Received: 08/10/18 15:39

Lab Sample ID: 660-88935-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.96	U	20.0	2.96	ug/L			08/14/18 15:46	1
Benzene	0.250	U	1.00	0.250	ug/L			08/14/18 15:46	1
Bromobenzene	0.281	U	1.00	0.281	ug/L			08/14/18 15:46	1
Bromochloromethane	0.358	U	2.00	0.358	ug/L			08/14/18 15:46	1
Bromodichloromethane	0.226	U	1.00	0.226	ug/L			08/14/18 15:46	1
Bromoform	1.09	U	5.00	1.09	ug/L			08/14/18 15:46	1
Bromomethane	2.50	U	10.0	2.50	ug/L			08/14/18 15:46	1
2-Butanone (MEK)	3.19	U	10.0	3.19	ug/L			08/14/18 15:46	1
Carbon disulfide	0.351	U	2.00	0.351	ug/L			08/14/18 15:46	1
Carbon tetrachloride	0.234	U	1.00	0.234	ug/L			08/14/18 15:46	1
Chlorobenzene	0.267	U	1.00	0.267	ug/L			08/14/18 15:46	1
Chlorodibromomethane	0.310	U	3.00	0.310	ug/L			08/14/18 15:46	1
Chloroethane	2.50	U	10.0	2.50	ug/L			08/14/18 15:46	1
Chloroform	0.285	U	1.00	0.285	ug/L			08/14/18 15:46	1
Chloromethane	0.319	U	1.00	0.319	ug/L			08/14/18 15:46	1
2-Chlorotoluene	0.271	U	1.00	0.271	ug/L			08/14/18 15:46	1
4-Chlorotoluene	0.520	U	2.00	0.520	ug/L			08/14/18 15:46	1
cis-1,2-Dichloroethene	0.323	U	1.00	0.323	ug/L			08/14/18 15:46	1
cis-1,3-Dichloropropene	0.390	U	2.00	0.390	ug/L			08/14/18 15:46	1
1,2-Dibromo-3-Chloropropane	2.50	U	10.0	2.50	ug/L			08/14/18 15:46	1
1,2-Dibromoethane (EDB)	0.272	U	1.00	0.272	ug/L			08/14/18 15:46	1
Dibromomethane	0.460	U	2.00	0.460	ug/L			08/14/18 15:46	1
1,2-Dichlorobenzene	0.241	U	1.00	0.241	ug/L			08/14/18 15:46	1
1,3-Dichlorobenzene	0.262	U	1.00	0.262	ug/L			08/14/18 15:46	1
1,4-Dichlorobenzene	0.223	U	1.00	0.223	ug/L			08/14/18 15:46	1
Dichlorodifluoromethane	2.50	U	10.0	2.50	ug/L			08/14/18 15:46	1
1,1-Dichloroethane	0.315	U	1.00	0.315	ug/L			08/14/18 15:46	1
1,2-Dichloroethane	0.308	U	1.00	0.308	ug/L			08/14/18 15:46	1
1,1-Dichloroethene	0.259	U	1.00	0.259	ug/L			08/14/18 15:46	1
1,2-Dichloropropane	0.520	U	2.00	0.520	ug/L			08/14/18 15:46	1
1,3-Dichloropropane	0.217	U	1.00	0.217	ug/L			08/14/18 15:46	1
2,2-Dichloropropane	0.360	U	2.00	0.360	ug/L			08/14/18 15:46	1
1,1-Dichloropropene	0.337	U	1.00	0.337	ug/L			08/14/18 15:46	1
Ethylbenzene	0.271	U	1.00	0.271	ug/L			08/14/18 15:46	1
Hexachlorobutadiene	0.340	U	1.00	0.340	ug/L			08/14/18 15:46	1
2-Hexanone	4.40	U	15.0	4.40	ug/L			08/14/18 15:46	1
Isopropylbenzene	0.520	U	2.00	0.520	ug/L			08/14/18 15:46	1
Methylene Chloride	1.38	U	10.0	1.38	ug/L			08/14/18 15:46	1
4-Methyl-2-pentanone (MIBK)	4.00	U	15.0	4.00	ug/L			08/14/18 15:46	1
Methyl tert-butyl ether	0.440	U	2.00	0.440	ug/L			08/14/18 15:46	1
Naphthalene	1.64	U	5.00	1.64	ug/L			08/14/18 15:46	1
n-Butylbenzene	0.150	U	1.00	0.150	ug/L			08/14/18 15:46	1
N-Propylbenzene	0.590	U	2.00	0.590	ug/L			08/14/18 15:46	1
p-Isopropyltoluene	0.690	U	3.00	0.690	ug/L			08/14/18 15:46	1
sec-Butylbenzene	0.630	U	2.00	0.630	ug/L			08/14/18 15:46	1
Styrene	0.490	U	2.00	0.490	ug/L			08/14/18 15:46	1
tert-Butylbenzene	0.388	U	2.00	0.388	ug/L			08/14/18 15:46	1
1,1,1,2-Tetrachloroethane	0.364	U	2.00	0.364	ug/L			08/14/18 15:46	1
1,1,2,2-Tetrachloroethane	0.170	U	1.00	0.170	ug/L			08/14/18 15:46	1

Client Sample ID: MW-South

Date Collected: 08/10/18 10:20
Date Received: 08/10/18 15:39

Lab Sample ID: 660-88935-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.500	U	2.00	0.500	ug/L			08/14/18 15:46	1
Toluene	0.241	U	1.00	0.241	ug/L			08/14/18 15:46	1
trans-1,2-Dichloroethene	0.388	U	2.00	0.388	ug/L			08/14/18 15:46	1
trans-1,3-Dichloropropene	0.270	U	1.00	0.270	ug/L			08/14/18 15:46	1
1,2,3-Trichlorobenzene	0.374	U	2.00	0.374	ug/L			08/14/18 15:46	1
1,2,4-Trichlorobenzene	0.580	U	2.00	0.580	ug/L			08/14/18 15:46	1
1,1,1-Trichloroethane	0.297	U	1.00	0.297	ug/L			08/14/18 15:46	1
1,1,2-Trichloroethane	0.288	U	1.00	0.288	ug/L			08/14/18 15:46	1
Trichloroethene	0.610	U	2.00	0.610	ug/L			08/14/18 15:46	1
Trichlorofluoromethane	0.485	U	5.00	0.485	ug/L			08/14/18 15:46	1
1,2,3-Trichloropropane	0.440	U	3.00	0.440	ug/L			08/14/18 15:46	1
1,2,4-Trimethylbenzene	0.496	U	2.00	0.496	ug/L			08/14/18 15:46	1
1,3,5-Trimethylbenzene	0.338	U	1.00	0.338	ug/L			08/14/18 15:46	1
Vinyl chloride	0.257	U	1.00	0.257	ug/L			08/14/18 15:46	1
Xylenes, Total	0.500	U	4.00	0.500	ug/L			08/14/18 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*08/14/18 15:46*	*1*
Dibromofluoromethane	*101*		*70 - 130*		*08/14/18 15:46*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/14/18 15:46*	*1*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.240	U	0.721	0.240	ug/L		08/13/18 09:34	08/13/18 15:22	1
Acenaphthylene	0.0774	U	0.481	0.0774	ug/L		08/13/18 09:34	08/13/18 15:22	1
Anthracene	0.0863	U	0.481	0.0863	ug/L		08/13/18 09:34	08/13/18 15:22	1
Benzo[a]anthracene	0.0481	U	0.481	0.0481	ug/L		08/13/18 09:34	08/13/18 15:22	1
Benzo[a]pyrene	0.0699	U	0.481	0.0699	ug/L		08/13/18 09:34	08/13/18 15:22	1
Benzo[b]fluoranthene	0.0481	U	0.481	0.0481	ug/L		08/13/18 09:34	08/13/18 15:22	1
Benzo[g,h,i]perylene	0.0668	U	0.481	0.0668	ug/L		08/13/18 09:34	08/13/18 15:22	1
Benzo[k]fluoranthene	0.0796	U	0.481	0.0796	ug/L		08/13/18 09:34	08/13/18 15:22	1
Chrysene	0.0654	U	0.481	0.0654	ug/L		08/13/18 09:34	08/13/18 15:22	1
Dibenz(a,h)anthracene	0.0736	U	0.481	0.0736	ug/L		08/13/18 09:34	08/13/18 15:22	1
Fluoranthene	0.224	U	0.721	0.224	ug/L		08/13/18 09:34	08/13/18 15:22	1
Fluorene	0.240	U	0.721	0.240	ug/L		08/13/18 09:34	08/13/18 15:22	1
Indeno[1,2,3-cd]pyrene	0.0481	U	0.481	0.0481	ug/L		08/13/18 09:34	08/13/18 15:22	1
1-Methylnaphthalene	0.240	U	0.721	0.240	ug/L		08/13/18 09:34	08/13/18 15:22	1
2-Methylnaphthalene	0.240	U	0.721	0.240	ug/L		08/13/18 09:34	08/13/18 15:22	1
Naphthalene	1.27	U	3.85	1.27	ug/L		08/13/18 09:34	08/13/18 15:22	1
Phenanthrene	0.830	U	2.88	0.830	ug/L		08/13/18 09:34	08/13/18 15:22	1
Pyrene	0.0947	U	0.481	0.0947	ug/L		08/13/18 09:34	08/13/18 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluoranthene-d10	*82*		*35 - 140*	*08/13/18 09:34*	*08/13/18 15:22*	*1*
2-methylnaphthalene-d10	*64*		*19 - 110*	*08/13/18 09:34*	*08/13/18 15:22*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EDB	0.00999	U	0.0300	0.00999	ug/L		08/14/18 12:45	08/14/18 16:08	1

Client Sample ID: MW-South

Date Collected: 08/10/18 10:20
Date Received: 08/10/18 15:39

Lab Sample ID: 660-88935-5

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*119*		*70 - 130*	*08/14/18 12:45*	*08/14/18 16:08*	*1*

Method: FL-PRO - Florida - Petroleum Range Organics (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FL PRO	0.672	U	4.00	0.672	mg/L		08/13/18 12:23	08/14/18 12:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*	*J1*	*82 - 142*	*08/13/18 12:23*	*08/14/18 12:37*	*1*
n-C39	*71*		*42 - 193*	*08/13/18 12:23*	*08/14/18 12:37*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 660-199822/8
Matrix: Water
Analysis Batch: 199822

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.96	U	20.0	2.96	ug/L			08/14/18 10:19	1
Benzene	0.250	U	1.00	0.250	ug/L			08/14/18 10:19	1
Bromobenzene	0.281	U	1.00	0.281	ug/L			08/14/18 10:19	1
Bromochloromethane	0.358	U	2.00	0.358	ug/L			08/14/18 10:19	1
Bromodichloromethane	0.226	U	1.00	0.226	ug/L			08/14/18 10:19	1
Bromoform	1.09	U	5.00	1.09	ug/L			08/14/18 10:19	1
Bromomethane	2.50	U	10.0	2.50	ug/L			08/14/18 10:19	1
2-Butanone (MEK)	3.19	U	10.0	3.19	ug/L			08/14/18 10:19	1
Carbon disulfide	0.351	U	2.00	0.351	ug/L			08/14/18 10:19	1
Carbon tetrachloride	0.234	U	1.00	0.234	ug/L			08/14/18 10:19	1
Chlorobenzene	0.267	U	1.00	0.267	ug/L			08/14/18 10:19	1
Chlorodibromomethane	0.310	U	3.00	0.310	ug/L			08/14/18 10:19	1
Chloroethane	2.50	U	10.0	2.50	ug/L			08/14/18 10:19	1
Chloroform	0.285	U	1.00	0.285	ug/L			08/14/18 10:19	1
Chloromethane	0.319	U	1.00	0.319	ug/L			08/14/18 10:19	1
2-Chlorotoluene	0.271	U	1.00	0.271	ug/L			08/14/18 10:19	1
4-Chlorotoluene	0.520	U	2.00	0.520	ug/L			08/14/18 10:19	1
cis-1,2-Dichloroethene	0.323	U	1.00	0.323	ug/L			08/14/18 10:19	1
cis-1,3-Dichloropropene	0.390	U	2.00	0.390	ug/L			08/14/18 10:19	1
1,2-Dibromo-3-Chloropropane	2.50	U	10.0	2.50	ug/L			08/14/18 10:19	1
1,2-Dibromoethane (EDB)	0.272	U	1.00	0.272	ug/L			08/14/18 10:19	1
Dibromomethane	0.460	U	2.00	0.460	ug/L			08/14/18 10:19	1
1,2-Dichlorobenzene	0.241	U	1.00	0.241	ug/L			08/14/18 10:19	1
1,3-Dichlorobenzene	0.262	U	1.00	0.262	ug/L			08/14/18 10:19	1
1,4-Dichlorobenzene	0.223	U	1.00	0.223	ug/L			08/14/18 10:19	1
Dichlorodifluoromethane	2.50	U	10.0	2.50	ug/L			08/14/18 10:19	1
1,1-Dichloroethane	0.315	U	1.00	0.315	ug/L			08/14/18 10:19	1
1,2-Dichloroethane	0.308	U	1.00	0.308	ug/L			08/14/18 10:19	1
1,1-Dichloroethene	0.259	U	1.00	0.259	ug/L			08/14/18 10:19	1
1,2-Dichloropropane	0.520	U	2.00	0.520	ug/L			08/14/18 10:19	1
1,3-Dichloropropane	0.217	U	1.00	0.217	ug/L			08/14/18 10:19	1
2,2-Dichloropropane	0.360	U	2.00	0.360	ug/L			08/14/18 10:19	1
1,1-Dichloropropene	0.337	U	1.00	0.337	ug/L			08/14/18 10:19	1
Ethylbenzene	0.271	U	1.00	0.271	ug/L			08/14/18 10:19	1
Hexachlorobutadiene	0.340	U	1.00	0.340	ug/L			08/14/18 10:19	1
2-Hexanone	4.40	U	15.0	4.40	ug/L			08/14/18 10:19	1
Isopropylbenzene	0.520	U	2.00	0.520	ug/L			08/14/18 10:19	1
Methylene Chloride	1.38	U	10.0	1.38	ug/L			08/14/18 10:19	1
4-Methyl-2-pentanone (MIBK)	4.00	U	15.0	4.00	ug/L			08/14/18 10:19	1
Methyl tert-butyl ether	0.440	U	2.00	0.440	ug/L			08/14/18 10:19	1
Naphthalene	1.64	U	5.00	1.64	ug/L			08/14/18 10:19	1
n-Butylbenzene	0.150	U	1.00	0.150	ug/L			08/14/18 10:19	1
N-Propylbenzene	0.590	U	2.00	0.590	ug/L			08/14/18 10:19	1
p-Isopropyltoluene	0.690	U	3.00	0.690	ug/L			08/14/18 10:19	1
sec-Butylbenzene	0.630	U	2.00	0.630	ug/L			08/14/18 10:19	1
Styrene	0.490	U	2.00	0.490	ug/L			08/14/18 10:19	1
tert-Butylbenzene	0.388	U	2.00	0.388	ug/L			08/14/18 10:19	1
1,1,1,2-Tetrachloroethane	0.364	U	2.00	0.364	ug/L			08/14/18 10:19	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 660-199822/8
Matrix: Water
Analysis Batch: 199822

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	0.170	U	1.00	0.170	ug/L			08/14/18 10:19	1
Tetrachloroethene	0.500	U	2.00	0.500	ug/L			08/14/18 10:19	1
Toluene	0.241	U	1.00	0.241	ug/L			08/14/18 10:19	1
trans-1,2-Dichloroethene	0.388	U	2.00	0.388	ug/L			08/14/18 10:19	1
trans-1,3-Dichloropropene	0.270	U	1.00	0.270	ug/L			08/14/18 10:19	1
1,2,3-Trichlorobenzene	0.374	U	2.00	0.374	ug/L			08/14/18 10:19	1
1,2,4-Trichlorobenzene	0.580	U	2.00	0.580	ug/L			08/14/18 10:19	1
1,1,1-Trichloroethane	0.297	U	1.00	0.297	ug/L			08/14/18 10:19	1
1,1,2-Trichloroethane	0.288	U	1.00	0.288	ug/L			08/14/18 10:19	1
Trichloroethene	0.610	U	2.00	0.610	ug/L			08/14/18 10:19	1
Trichlorofluoromethane	0.485	U	5.00	0.485	ug/L			08/14/18 10:19	1
1,2,3-Trichloropropane	0.440	U	3.00	0.440	ug/L			08/14/18 10:19	1
1,2,4-Trimethylbenzene	0.496	U	2.00	0.496	ug/L			08/14/18 10:19	1
1,3,5-Trimethylbenzene	0.338	U	1.00	0.338	ug/L			08/14/18 10:19	1
Vinyl chloride	0.257	U	1.00	0.257	ug/L			08/14/18 10:19	1
Xylenes, Total	0.500	U	4.00	0.500	ug/L			08/14/18 10:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 130*		*08/14/18 10:19*	*1*
Dibromofluoromethane	*102*		*70 - 130*		*08/14/18 10:19*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/14/18 10:19*	*1*

Lab Sample ID: LCS 660-199822/5
Matrix: Water
Analysis Batch: 199822

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	99.46		ug/L		99	52 - 150
Benzene	10.0	10.80		ug/L		108	69 - 131
Bromobenzene	10.0	10.44		ug/L		104	67 - 130
Bromochloromethane	10.0	10.37		ug/L		104	68 - 130
Bromodichloromethane	10.0	8.371		ug/L		84	67 - 131
Bromoform	10.0	8.254		ug/L		83	60 - 130
Bromomethane	10.0	5.515	I	ug/L		55	10 - 150
2-Butanone (MEK)	100	99.13		ug/L		99	65 - 130
Carbon disulfide	10.0	12.73		ug/L		127	15 - 150
Carbon tetrachloride	10.0	9.730		ug/L		97	62 - 130
Chlorobenzene	10.0	10.51		ug/L		105	68 - 130
Chlorodibromomethane	10.0	7.769		ug/L		78	58 - 130
Chloroethane	10.0	8.937	I	ug/L		89	52 - 150
Chloroform	10.0	10.68		ug/L		107	77 - 130
Chloromethane	10.0	10.15		ug/L		102	59 - 137
2-Chlorotoluene	10.0	11.17		ug/L		112	69 - 133
4-Chlorotoluene	10.0	11.36		ug/L		114	68 - 130
cis-1,2-Dichloroethene	10.0	11.00		ug/L		110	69 - 133
cis-1,3-Dichloropropene	10.0	10.72		ug/L		107	61 - 130
1,2-Dibromo-3-Chloropropane	10.0	10.22		ug/L		102	54 - 139
1,2-Dibromoethane (EDB)	10.0	10.10		ug/L		101	63 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 660-199822/5
Matrix: Water
Analysis Batch: 199822

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromomethane	10.0	10.49		ug/L		105	64 - 130
1,2-Dichlorobenzene	10.0	10.69		ug/L		107	69 - 133
1,3-Dichlorobenzene	10.0	10.36		ug/L		104	68 - 130
1,4-Dichlorobenzene	10.0	10.58		ug/L		106	69 - 133
Dichlorodifluoromethane	10.0	8.867	I	ug/L		89	23 - 150
1,1-Dichloroethane	10.0	10.82		ug/L		108	69 - 130
1,2-Dichloroethane	10.0	9.893		ug/L		99	65 - 130
1,1-Dichloroethene	10.0	11.76		ug/L		118	62 - 133
1,2-Dichloropropane	10.0	11.26		ug/L		113	79 - 130
1,3-Dichloropropane	10.0	10.18		ug/L		102	65 - 130
2,2-Dichloropropane	10.0	11.37		ug/L		114	61 - 130
1,1-Dichloropropene	10.0	10.50		ug/L		105	63 - 136
Ethylbenzene	10.0	10.08		ug/L		101	77 - 130
Hexachlorobutadiene	10.0	10.60		ug/L		106	66 - 134
2-Hexanone	100	96.09		ug/L		96	47 - 147
Isopropylbenzene	10.0	10.47		ug/L		105	66 - 130
Methylene Chloride	10.0	10.78		ug/L		108	68 - 142
4-Methyl-2-pentanone (MIBK)	100	94.91		ug/L		95	46 - 146
Methyl tert-butyl ether	10.0	10.32		ug/L		103	66 - 130
Naphthalene	10.0	10.99		ug/L		110	46 - 146
n-Butylbenzene	10.0	9.804		ug/L		98	61 - 130
N-Propylbenzene	10.0	10.44		ug/L		104	69 - 131
p-Isopropyltoluene	10.0	10.37		ug/L		104	64 - 130
sec-Butylbenzene	10.0	10.13		ug/L		101	65 - 130
Styrene	10.0	10.40		ug/L		104	66 - 130
tert-Butylbenzene	10.0	10.27		ug/L		103	64 - 130
1,1,1,2-Tetrachloroethane	10.0	8.556		ug/L		86	67 - 130
1,1,2,2-Tetrachloroethane	10.0	9.449		ug/L		94	67 - 130
Tetrachloroethene	10.0	10.08		ug/L		101	65 - 130
Toluene	10.0	9.668		ug/L		97	77 - 130
trans-1,2-Dichloroethene	10.0	11.70		ug/L		117	67 - 139
trans-1,3-Dichloropropene	10.0	8.090		ug/L		81	57 - 130
1,2,3-Trichlorobenzene	10.0	9.406		ug/L		94	73 - 135
1,2,4-Trichlorobenzene	10.0	9.437		ug/L		94	68 - 130
1,1,1-Trichloroethane	10.0	9.715		ug/L		97	65 - 130
1,1,2-Trichloroethane	10.0	9.152		ug/L		92	68 - 130
Trichloroethene	10.0	9.882		ug/L		99	68 - 130
Trichlorofluoromethane	10.0	11.17		ug/L		112	56 - 135
1,2,3-Trichloropropane	10.0	8.803		ug/L		88	68 - 130
1,2,4-Trimethylbenzene	10.0	10.87		ug/L		109	65 - 130
1,3,5-Trimethylbenzene	10.0	10.35		ug/L		103	65 - 130
Vinyl chloride	10.0	10.06		ug/L		101	59 - 136
Xylenes, Total	20.0	20.44		ug/L		102	64 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*70 - 130*
Dibromofluoromethane	*98*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 660-199822/6
Matrix: Water
Analysis Batch: 199822

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	100	105.1		ug/L		105	52 - 150	6	30
Benzene	10.0	10.55		ug/L		106	69 - 131	2	30
Bromobenzene	10.0	9.810		ug/L		98	67 - 130	6	30
Bromochloromethane	10.0	10.30		ug/L		103	68 - 130	1	30
Bromodichloromethane	10.0	8.259		ug/L		83	67 - 131	1	30
Bromoform	10.0	7.304		ug/L		73	60 - 130	12	30
Bromomethane	10.0	6.073	I	ug/L		61	10 - 150	10	30
2-Butanone (MEK)	100	99.83		ug/L		100	65 - 130	1	30
Carbon disulfide	10.0	12.12		ug/L		121	15 - 150	5	30
Carbon tetrachloride	10.0	8.896		ug/L		89	62 - 130	9	30
Chlorobenzene	10.0	10.01		ug/L		100	68 - 130	5	30
Chlorodibromomethane	10.0	7.452		ug/L		75	58 - 130	4	30
Chloroethane	10.0	10.70		ug/L		107	52 - 150	18	30
Chloroform	10.0	9.761		ug/L		98	77 - 130	9	30
Chloromethane	10.0	9.419		ug/L		94	59 - 137	7	30
2-Chlorotoluene	10.0	10.27		ug/L		103	69 - 133	8	30
4-Chlorotoluene	10.0	10.92		ug/L		109	68 - 130	4	30
cis-1,2-Dichloroethene	10.0	10.21		ug/L		102	69 - 133	7	30
cis-1,3-Dichloropropene	10.0	10.26		ug/L		103	61 - 130	4	30
1,2-Dibromo-3-Chloropropane	10.0	10.09		ug/L		101	54 - 139	1	30
1,2-Dibromoethane (EDB)	10.0	9.628		ug/L		96	63 - 130	5	30
Dibromomethane	10.0	9.627		ug/L		96	64 - 130	9	30
1,2-Dichlorobenzene	10.0	10.05		ug/L		101	69 - 133	6	30
1,3-Dichlorobenzene	10.0	10.07		ug/L		101	68 - 130	3	30
1,4-Dichlorobenzene	10.0	9.931		ug/L		99	69 - 133	6	30
Dichlorodifluoromethane	10.0	7.798	I	ug/L		78	23 - 150	13	30
1,1-Dichloroethane	10.0	10.65		ug/L		107	69 - 130	2	30
1,2-Dichloroethane	10.0	9.672		ug/L		97	65 - 130	2	30
1,1-Dichloroethene	10.0	10.74		ug/L		107	62 - 133	9	30
1,2-Dichloropropane	10.0	9.953		ug/L		100	79 - 130	12	30
1,3-Dichloropropane	10.0	9.402		ug/L		94	65 - 130	8	30
2,2-Dichloropropane	10.0	10.94		ug/L		109	61 - 130	4	30
1,1-Dichloropropene	10.0	10.10		ug/L		101	63 - 136	4	30
Ethylbenzene	10.0	9.431		ug/L		94	77 - 130	7	30
Hexachlorobutadiene	10.0	9.854		ug/L		99	66 - 134	7	30
2-Hexanone	100	97.88		ug/L		98	47 - 147	2	30
Isopropylbenzene	10.0	10.06		ug/L		101	66 - 130	4	30
Methylene Chloride	10.0	10.08		ug/L		101	68 - 142	7	30
4-Methyl-2-pentanone (MIBK)	100	93.04		ug/L		93	46 - 146	2	30
Methyl tert-butyl ether	10.0	9.776		ug/L		98	66 - 130	5	30
Naphthalene	10.0	9.466		ug/L		95	46 - 146	15	30
n-Butylbenzene	10.0	8.523		ug/L		85	61 - 130	14	30
N-Propylbenzene	10.0	10.20		ug/L		102	69 - 131	2	30
p-Isopropyltoluene	10.0	9.516		ug/L		95	64 - 130	9	30
sec-Butylbenzene	10.0	9.585		ug/L		96	65 - 130	5	30
Styrene	10.0	9.685		ug/L		97	66 - 130	7	30
tert-Butylbenzene	10.0	9.859		ug/L		99	64 - 130	4	30
1,1,1,2-Tetrachloroethane	10.0	8.249		ug/L		82	67 - 130	4	30
1,1,2,2-Tetrachloroethane	10.0	9.062		ug/L		91	67 - 130	4	30
Tetrachloroethene	10.0	9.626		ug/L		96	65 - 130	5	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 660-199822/6
Matrix: Water
Analysis Batch: 199822

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			10.0	9.129		ug/L		91	77 - 130	6	30
trans-1,2-Dichloroethene			10.0	10.73		ug/L		107	67 - 139	9	30
trans-1,3-Dichloropropene			10.0	7.860		ug/L		79	57 - 130	3	30
1,2,3-Trichlorobenzene			10.0	8.301		ug/L		83	73 - 135	12	30
1,2,4-Trichlorobenzene			10.0	8.060		ug/L		81	68 - 130	16	30
1,1,1-Trichloroethane			10.0	8.803		ug/L		88	65 - 130	10	30
1,1,2-Trichloroethane			10.0	8.928		ug/L		89	68 - 130	2	30
Trichloroethene			10.0	9.302		ug/L		93	68 - 130	6	30
Trichlorofluoromethane			10.0	9.335		ug/L		93	56 - 135	18	30
1,2,3-Trichloropropane			10.0	8.972		ug/L		90	68 - 130	2	30
1,2,4-Trimethylbenzene			10.0	10.17		ug/L		102	65 - 130	7	30
1,3,5-Trimethylbenzene			10.0	9.671		ug/L		97	65 - 130	7	30
Vinyl chloride			10.0	9.192		ug/L		92	59 - 136	9	30
Xylenes, Total			20.0	19.07		ug/L		95	64 - 130	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*70 - 130*
Dibromofluoromethane	*100*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: 660-88954-B-20 MS
Matrix: Water
Analysis Batch: 199822

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	2.96	U	100	106.0		ug/L		106	52 - 150
Benzene	0.250	U	10.0	10.26		ug/L		103	69 - 131
Bromobenzene	0.281	U	10.0	10.12		ug/L		101	67 - 130
Bromochloromethane	0.358	U	10.0	10.10		ug/L		101	68 - 130
Bromodichloromethane	0.226	U	10.0	7.884		ug/L		79	67 - 131
Bromoform	1.09	U	10.0	8.200		ug/L		82	60 - 130
Bromomethane	2.50	U	10.0	7.491	I	ug/L		75	10 - 150
2-Butanone (MEK)	3.19	U	100	103.4		ug/L		103	65 - 130
Carbon disulfide	0.351	U	10.0	11.43		ug/L		114	15 - 150
Carbon tetrachloride	0.234	U	10.0	8.755		ug/L		88	62 - 130
Chlorobenzene	0.267	U	10.0	10.12		ug/L		101	68 - 130
Chlorodibromomethane	0.310	U	10.0	7.692		ug/L		77	58 - 130
Chloroethane	2.50	U	10.0	9.528	I	ug/L		95	52 - 150
Chloroform	0.285	U	10.0	9.977		ug/L		100	77 - 130
Chloromethane	0.319	U	10.0	9.951		ug/L		100	59 - 137
2-Chlorotoluene	0.271	U	10.0	10.22		ug/L		102	69 - 133
4-Chlorotoluene	0.520	U	10.0	9.950		ug/L		100	68 - 130
cis-1,2-Dichloroethene	0.323	U	10.0	10.43		ug/L		104	69 - 133
cis-1,3-Dichloropropene	0.390	U	10.0	10.27		ug/L		103	61 - 130
1,2-Dibromo-3-Chloropropane	2.50	U	10.0	9.014	I	ug/L		90	54 - 139
1,2-Dibromoethane (EDB)	0.272	U	10.0	9.701		ug/L		97	63 - 130
Dibromomethane	0.460	U	10.0	9.914		ug/L		99	64 - 130
1,2-Dichlorobenzene	0.241	U	10.0	10.08		ug/L		101	69 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 660-88954-B-20 MS
Matrix: Water
Analysis Batch: 199822

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	0.262	U	10.0	9.768		ug/L		98	68 - 130
1,4-Dichlorobenzene	0.223	U	10.0	9.798		ug/L		98	69 - 133
Dichlorodifluoromethane	2.50	U	10.0	4.939	I	ug/L		49	23 - 150
1,1-Dichloroethane	0.315	U	10.0	10.49		ug/L		105	69 - 130
1,2-Dichloroethane	0.308	U	10.0	10.07		ug/L		101	65 - 130
1,1-Dichloroethene	0.259	U	10.0	10.54		ug/L		105	62 - 133
1,2-Dichloropropane	0.520	U	10.0	10.13		ug/L		101	79 - 130
1,3-Dichloropropane	0.217	U	10.0	10.10		ug/L		101	65 - 130
2,2-Dichloropropane	0.360	U	10.0	10.70		ug/L		107	61 - 130
1,1-Dichloropropene	0.337	U	10.0	9.908		ug/L		99	63 - 136
Ethylbenzene	0.271	U	10.0	9.026		ug/L		90	77 - 130
Hexachlorobutadiene	0.340	U	10.0	9.043		ug/L		90	66 - 134
2-Hexanone	4.40	U	100	103.3		ug/L		103	47 - 147
Isopropylbenzene	0.520	U	10.0	9.882		ug/L		99	66 - 130
Methylene Chloride	1.38	U	10.0	8.564	I	ug/L		86	68 - 142
4-Methyl-2-pentanone (MIBK)	4.00	U	100	101.6		ug/L		102	46 - 146
Methyl tert-butyl ether	0.440	U	10.0	9.861		ug/L		99	66 - 130
Naphthalene	1.64	U	10.0	8.500		ug/L		85	46 - 146
n-Butylbenzene	0.150	U	10.0	8.312		ug/L		83	61 - 130
N-Propylbenzene	0.590	U	10.0	9.986		ug/L		100	69 - 131
p-Isopropyltoluene	0.690	U	10.0	9.408		ug/L		94	64 - 130
sec-Butylbenzene	0.630	U	10.0	9.403		ug/L		94	65 - 130
Styrene	0.490	U	10.0	9.910		ug/L		99	66 - 130
tert-Butylbenzene	0.388	U	10.0	9.656		ug/L		97	64 - 130
1,1,1,2-Tetrachloroethane	0.364	U	10.0	8.191		ug/L		82	67 - 130
1,1,2,2-Tetrachloroethane	0.170	U	10.0	9.917		ug/L		99	67 - 130
Tetrachloroethene	0.500	U	10.0	9.440		ug/L		94	65 - 130
Toluene	0.241	U	10.0	9.220		ug/L		92	77 - 130
trans-1,2-Dichloroethene	0.388	U	10.0	10.32		ug/L		103	67 - 139
trans-1,3-Dichloropropene	0.270	U	10.0	7.697		ug/L		77	57 - 130
1,2,3-Trichlorobenzene	0.374	U J3	10.0	6.806	J3	ug/L		68	73 - 135
1,2,4-Trichlorobenzene	0.580	U	10.0	7.555		ug/L		76	68 - 130
1,1,1-Trichloroethane	0.297	U	10.0	9.050		ug/L		91	65 - 130
1,1,2-Trichloroethane	0.288	U	10.0	9.152		ug/L		92	68 - 130
Trichloroethene	0.610	U	10.0	9.514		ug/L		95	68 - 130
Trichlorofluoromethane	0.485	U	10.0	10.59		ug/L		106	56 - 135
1,2,3-Trichloropropane	0.440	U	10.0	9.197		ug/L		92	68 - 130
1,2,4-Trimethylbenzene	0.496	U	10.0	9.972		ug/L		100	65 - 130
1,3,5-Trimethylbenzene	0.338	U	10.0	9.981		ug/L		100	65 - 130
Vinyl chloride	0.257	U	10.0	10.25		ug/L		103	59 - 136
Xylenes, Total	0.500	U	20.0	18.84		ug/L		94	64 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*70 - 130*
Dibromofluoromethane	*100*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 660-88954-A-19 DU
Matrix: Water
Analysis Batch: 199822

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Acetone	2.96	U		2.96	U	ug/L				NC	30
Benzene	0.250	U		0.250	U	ug/L				NC	30
Bromobenzene	0.281	U		0.281	U	ug/L				NC	30
Bromochloromethane	0.358	U		0.358	U	ug/L				NC	30
Bromodichloromethane	0.226	U		0.226	U	ug/L				NC	30
Bromoform	1.09	U		1.09	U	ug/L				NC	30
Bromomethane	2.50	U		2.50	U	ug/L				NC	30
2-Butanone (MEK)	3.19	U		3.19	U	ug/L				NC	30
Carbon disulfide	0.351	U		0.351	U	ug/L				NC	30
Carbon tetrachloride	0.234	U		0.234	U	ug/L				NC	30
Chlorobenzene	0.267	U		0.267	U	ug/L				NC	30
Chlorodibromomethane	0.310	U		0.310	U	ug/L				NC	30
Chloroethane	2.50	U		2.50	U	ug/L				NC	30
Chloroform	0.285	U		0.285	U	ug/L				NC	30
Chloromethane	0.319	U		0.319	U	ug/L				NC	30
2-Chlorotoluene	0.271	U		0.271	U	ug/L				NC	30
4-Chlorotoluene	0.520	U		0.520	U	ug/L				NC	30
cis-1,2-Dichloroethene	8.99			7.767		ug/L				15	30
cis-1,3-Dichloropropene	0.390	U		0.390	U	ug/L				NC	30
1,2-Dibromo-3-Chloropropane	2.50	U		2.50	U	ug/L				NC	30
1,2-Dibromoethane (EDB)	0.272	U		0.272	U	ug/L				NC	30
Dibromomethane	0.460	U		0.460	U	ug/L				NC	30
1,2-Dichlorobenzene	0.241	U		0.241	U	ug/L				NC	30
1,3-Dichlorobenzene	0.262	U		0.262	U	ug/L				NC	30
1,4-Dichlorobenzene	0.223	U		0.223	U	ug/L				NC	30
Dichlorodifluoromethane	2.50	U		2.50	U	ug/L				NC	30
1,1-Dichloroethane	2.63			2.288		ug/L				14	30
1,2-Dichloroethane	0.308	U		0.308	U	ug/L				NC	30
1,1-Dichloroethene	3.03			2.810		ug/L				7	30
1,2-Dichloropropane	0.520	U		0.520	U	ug/L				NC	30
1,3-Dichloropropane	0.217	U		0.217	U	ug/L				NC	30
2,2-Dichloropropane	0.360	U		0.360	U	ug/L				NC	30
1,1-Dichloropropene	0.337	U		0.337	U	ug/L				NC	30
Ethylbenzene	0.271	U		0.271	U	ug/L				NC	30
Hexachlorobutadiene	0.340	U		0.340	U	ug/L				NC	30
2-Hexanone	4.40	U		4.40	U	ug/L				NC	30
Isopropylbenzene	0.520	U		0.520	U	ug/L				NC	30
Methylene Chloride	1.38	U		1.38	U	ug/L				NC	30
4-Methyl-2-pentanone (MIBK)	4.00	U		4.00	U	ug/L				NC	30
Methyl tert-butyl ether	0.440	U		0.440	U	ug/L				NC	30
Naphthalene	1.64	U		1.64	U	ug/L				NC	30
n-Butylbenzene	0.150	U		0.150	U	ug/L				NC	30
N-Propylbenzene	0.590	U		0.590	U	ug/L				NC	30
p-Isopropyltoluene	0.690	U		0.690	U	ug/L				NC	30
sec-Butylbenzene	0.630	U		0.630	U	ug/L				NC	30
Styrene	0.490	U		0.490	U	ug/L				NC	30
tert-Butylbenzene	0.388	U		0.388	U	ug/L				NC	30
1,1,1,2-Tetrachloroethane	0.364	U		0.364	U	ug/L				NC	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 660-88954-A-19 DU
Matrix: Water
Analysis Batch: 199822

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
1,1,2,2-Tetrachloroethane	0.170	U	0.170	U	ug/L		NC	30
Tetrachloroethene	1.83	I	1.990	I	ug/L		8	30
Toluene	0.241	U	0.6845	I	ug/L		NC	30
trans-1,2-Dichloroethene	0.388	U	0.388	U	ug/L		NC	30
trans-1,3-Dichloropropene	0.270	U	0.270	U	ug/L		NC	30
1,2,3-Trichlorobenzene	0.374	U	0.374	U	ug/L		NC	30
1,2,4-Trichlorobenzene	0.580	U	0.580	U	ug/L		NC	30
1,1,1-Trichloroethane	0.297	U	0.297	U	ug/L		NC	30
1,1,2-Trichloroethane	0.288	U	0.288	U	ug/L		NC	30
Trichloroethene	3.24		2.928		ug/L		10	30
Trichlorofluoromethane	0.485	U	0.485	U	ug/L		NC	30
1,2,3-Trichloropropane	0.440	U	0.440	U	ug/L		NC	30
1,2,4-Trimethylbenzene	0.496	U	0.496	U	ug/L		NC	30
1,3,5-Trimethylbenzene	0.338	U	0.338	U	ug/L		NC	30
Vinyl chloride	0.345	I	0.3151	I	ug/L		9	30
Xylenes, Total	0.500	U	0.500	U	ug/L		NC	30

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*70 - 130*
Dibromofluoromethane	*100*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 660-199824/6
Matrix: Solid
Analysis Batch: 199824

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00330	U	0.0100	0.00330	mg/Kg			08/14/18 09:13	1
Ethylbenzene	0.00289	U	0.0100	0.00289	mg/Kg			08/14/18 09:13	1
Methyl tert-butyl ether	0.00157	U	0.0100	0.00157	mg/Kg			08/14/18 09:13	1
Toluene	0.00381	U	0.0150	0.00381	mg/Kg			08/14/18 09:13	1
Xylenes, Total	0.00279	U	0.0150	0.00279	mg/Kg			08/14/18 09:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*69 - 130*		*08/14/18 09:13*	*1*
Dibromofluoromethane	*102*		*63 - 139*		*08/14/18 09:13*	*1*
Toluene-d8 (Surr)	*99*		*67 - 138*		*08/14/18 09:13*	*1*

Lab Sample ID: LCS 660-199824/4
Matrix: Solid
Analysis Batch: 199824

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.05518		mg/Kg		110	62 - 130
Ethylbenzene	0.0500	0.05400		mg/Kg		108	68 - 130
Methyl tert-butyl ether	0.0500	0.05616		mg/Kg		112	61 - 130
Toluene	0.0500	0.05641		mg/Kg		113	76 - 130
Xylenes, Total	0.100	0.1119		mg/Kg		112	63 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	*102*		*69 - 130*
Dibromofluoromethane	*104*		*63 - 139*
Toluene-d8 (Surr)	*101*		*67 - 138*

Lab Sample ID: 660-88935-3 MS — **Client Sample ID: STP-1 South@2ft**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 199824 — **Prep Batch: 199832**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.00320	U	0.0685	0.08152		mg/Kg	☼	119	62 - 130
Ethylbenzene	0.00280	U	0.0685	0.07869		mg/Kg	☼	115	68 - 130
Methyl tert-butyl ether	0.00152	U	0.0685	0.08088		mg/Kg	☼	118	61 - 130
Toluene	0.00369	U	0.0685	0.08388		mg/Kg	☼	122	76 - 130
Xylenes, Total	0.00270	U	0.137	0.1630		mg/Kg	☼	119	63 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	*102*		*69 - 130*
Dibromofluoromethane	*100*		*63 - 139*
Toluene-d8 (Surr)	*103*		*67 - 138*

Lab Sample ID: 660-88935-2 DU — **Client Sample ID: OSB-2 South@2.5ft**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 199824 — **Prep Batch: 199832**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Benzene	0.00319	U	0.00325	U	mg/Kg	☼	NC	40
Ethylbenzene	0.00280	U	0.00284	U	mg/Kg	☼	NC	40
Methyl tert-butyl ether	0.00152	U	0.00155	U	mg/Kg	☼	NC	40
Toluene	0.00369	U	0.00375	U	mg/Kg	☼	NC	40
Xylenes, Total	0.00270	U	0.00275	U	mg/Kg	☼	NC	40

Surrogate	DU %Recovery	DU Qualifier	Limits
4-Bromofluorobenzene	*97*		*69 - 130*
Dibromofluoromethane	*108*		*63 - 139*
Toluene-d8 (Surr)	*106*		*67 - 138*

Lab Sample ID: MB 660-199888/14 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 199888

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.165	U	0.500	0.165	mg/Kg			08/15/18 14:18	50
Ethylbenzene	0.145	U	0.500	0.145	mg/Kg			08/15/18 14:18	50
Methyl tert-butyl ether	0.0785	U	0.500	0.0785	mg/Kg			08/15/18 14:18	50
Toluene	0.191	U	0.750	0.191	mg/Kg			08/15/18 14:18	50
Xylenes, Total	0.140	U	0.750	0.140	mg/Kg			08/15/18 14:18	50

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	*96*		*69 - 130*		*08/15/18 14:18*	*50*
Dibromofluoromethane	*98*		*63 - 139*		*08/15/18 14:18*	*50*
Toluene-d8 (Surr)	*101*		*67 - 138*		*08/15/18 14:18*	*50*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 660-199888/13
Matrix: Solid
Analysis Batch: 199888

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	2.00	1.916		mg/Kg		96	62 - 130
Ethylbenzene	2.00	1.890		mg/Kg		94	68 - 130
Methyl tert-butyl ether	2.00	1.962		mg/Kg		98	61 - 130
Toluene	2.00	1.965		mg/Kg		98	76 - 130
Xylenes, Total	4.00	3.799		mg/Kg		95	63 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*69 - 130*
Dibromofluoromethane	*101*		*63 - 139*
Toluene-d8 (Surr)	*101*		*67 - 138*

Lab Sample ID: 660-88935-1 MS
Matrix: Solid
Analysis Batch: 199888

Client Sample ID: OSB-1 North@2ft
Prep Type: Total/NA
Prep Batch: 199921

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	6.88	U	83.4	88.14		mg/Kg	☼	106	62 - 130
Ethylbenzene	29.5		83.4	111.9		mg/Kg	☼	99	68 - 130
Methyl tert-butyl ether	3.27	U	83.4	87.28		mg/Kg	☼	105	61 - 130
Toluene	21.0	I	83.4	110.6		mg/Kg	☼	107	76 - 130
Xylenes, Total	201		167	351.4		mg/Kg	☼	90	63 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*69 - 130*
Dibromofluoromethane	*101*		*63 - 139*
Toluene-d8 (Surr)	*102*		*67 - 138*

Lab Sample ID: 660-88935-1 MSD
Matrix: Solid
Analysis Batch: 199888

Client Sample ID: OSB-1 North@2ft
Prep Type: Total/NA
Prep Batch: 199921

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	6.88	U	83.4	97.68		mg/Kg	☼	117	62 - 130	10	40
Ethylbenzene	29.5		83.4	121.2		mg/Kg	☼	110	68 - 130	8	40
Methyl tert-butyl ether	3.27	U	83.4	96.30		mg/Kg	☼	115	61 - 130	10	40
Toluene	21.0	I	83.4	121.0		mg/Kg	☼	120	76 - 130	9	40
Xylenes, Total	201		167	385.9		mg/Kg	☼	111	63 - 130	9	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*69 - 130*
Dibromofluoromethane	*104*		*63 - 139*
Toluene-d8 (Surr)	*103*		*67 - 138*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 660-199789/1-A
Matrix: Water
Analysis Batch: 199775

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 199789

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.250	U	0.750	0.250	ug/L		08/13/18 09:34	08/13/18 13:21	1
Acenaphthylene	0.0805	U	0.500	0.0805	ug/L		08/13/18 09:34	08/13/18 13:21	1
Anthracene	0.0897	U	0.500	0.0897	ug/L		08/13/18 09:34	08/13/18 13:21	1
Benzo[a]anthracene	0.0500	U	0.500	0.0500	ug/L		08/13/18 09:34	08/13/18 13:21	1
Benzo[a]pyrene	0.0727	U	0.500	0.0727	ug/L		08/13/18 09:34	08/13/18 13:21	1
Benzo[b]fluoranthene	0.0500	U	0.500	0.0500	ug/L		08/13/18 09:34	08/13/18 13:21	1
Benzo[g,h,i]perylene	0.0695	U	0.500	0.0695	ug/L		08/13/18 09:34	08/13/18 13:21	1
Benzo[k]fluoranthene	0.0828	U	0.500	0.0828	ug/L		08/13/18 09:34	08/13/18 13:21	1
Chrysene	0.0680	U	0.500	0.0680	ug/L		08/13/18 09:34	08/13/18 13:21	1
Dibenz(a,h)anthracene	0.0765	U	0.500	0.0765	ug/L		08/13/18 09:34	08/13/18 13:21	1
Fluoranthene	0.233	U	0.750	0.233	ug/L		08/13/18 09:34	08/13/18 13:21	1
Fluorene	0.250	U	0.750	0.250	ug/L		08/13/18 09:34	08/13/18 13:21	1
Indeno[1,2,3-cd]pyrene	0.0500	U	0.500	0.0500	ug/L		08/13/18 09:34	08/13/18 13:21	1
1-Methylnaphthalene	0.250	U	0.750	0.250	ug/L		08/13/18 09:34	08/13/18 13:21	1
2-Methylnaphthalene	0.250	U	0.750	0.250	ug/L		08/13/18 09:34	08/13/18 13:21	1
Naphthalene	1.32	U	4.00	1.32	ug/L		08/13/18 09:34	08/13/18 13:21	1
Phenanthrene	0.863	U	3.00	0.863	ug/L		08/13/18 09:34	08/13/18 13:21	1
Pyrene	0.0985	U	0.500	0.0985	ug/L		08/13/18 09:34	08/13/18 13:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluoranthene-d10	*71*		*35 - 140*	*08/13/18 09:34*	*08/13/18 13:21*	*1*
2-methylnaphthalene-d10	*57*		*19 - 110*	*08/13/18 09:34*	*08/13/18 13:21*	*1*

Lab Sample ID: LCS 660-199789/2-A
Matrix: Water
Analysis Batch: 199775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 199789

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	20.0	12.18		ug/L		61	19 - 110
Acenaphthylene	20.0	12.22		ug/L		61	21 - 110
Anthracene	20.0	12.85		ug/L		64	27 - 110
Benzo[a]anthracene	20.0	14.24		ug/L		71	28 - 120
Benzo[a]pyrene	20.0	14.23		ug/L		71	36 - 114
Benzo[b]fluoranthene	20.0	17.50		ug/L		88	32 - 116
Benzo[g,h,i]perylene	20.0	9.267		ug/L		46	24 - 118
Benzo[k]fluoranthene	20.0	17.16		ug/L		86	31 - 111
Chrysene	20.0	14.59		ug/L		73	30 - 113
Dibenz(a,h)anthracene	20.0	10.53		ug/L		53	28 - 116
Fluoranthene	20.0	14.39		ug/L		72	23 - 110
Fluorene	20.0	11.97		ug/L		60	23 - 110
Indeno[1,2,3-cd]pyrene	20.0	7.348		ug/L		37	27 - 118
1-Methylnaphthalene	20.0	11.36		ug/L		57	19 - 110
2-Methylnaphthalene	20.0	11.23		ug/L		56	18 - 110
Naphthalene	20.0	10.76		ug/L		54	19 - 110
Phenanthrene	20.0	12.43		ug/L		62	25 - 110
Pyrene	20.0	13.75		ug/L		69	27 - 113

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 660-199789/2-A
Matrix: Water
Analysis Batch: 199775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 199789

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Fluoranthene-d10	76		35 - 140
2-methylnaphthalene-d10	60		19 - 110

Lab Sample ID: 660-88906-B-1-B MS
Matrix: Water
Analysis Batch: 199775

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 199789

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.231	U	18.5	11.70		ug/L		63	19 - 110
Acenaphthylene	0.0745	U	18.5	11.54		ug/L		62	21 - 110
Anthracene	0.0831	U	18.5	12.97		ug/L		70	27 - 110
Benzo[a]anthracene	0.0463	U	18.5	13.66		ug/L		74	28 - 120
Benzo[a]pyrene	0.0673	U	18.5	13.26		ug/L		72	36 - 114
Benzo[b]fluoranthene	0.0463	U	18.5	14.51		ug/L		78	32 - 116
Benzo[g,h,i]perylene	0.0644	U	18.5	8.152		ug/L		44	24 - 118
Benzo[k]fluoranthene	0.0767	U	18.5	15.84		ug/L		86	31 - 111
Chrysene	0.0630	U	18.5	13.93		ug/L		75	30 - 113
Dibenz(a,h)anthracene	0.0708	U	18.5	9.418		ug/L		51	28 - 116
Fluoranthene	0.216	U	18.5	13.93		ug/L		75	23 - 110
Fluorene	0.231	U	18.5	11.33		ug/L		61	23 - 110
Indeno[1,2,3-cd]pyrene	0.0463	U	18.5	6.640		ug/L		36	27 - 118
1-Methylnaphthalene	0.231	U	18.5	10.99		ug/L		59	19 - 110
2-Methylnaphthalene	0.239	I	18.5	10.89		ug/L		57	18 - 110
Naphthalene	1.22	U	18.5	10.13		ug/L		55	19 - 110
Phenanthrene	0.799	U	18.5	12.10		ug/L		65	25 - 110
Pyrene	0.0912	U	18.5	13.42		ug/L		72	27 - 113

Surrogate	MS %Recovery	MS Qualifier	Limits
Fluoranthene-d10	77		35 - 140
2-methylnaphthalene-d10	60		19 - 110

Lab Sample ID: 660-88925-B-1-B DU
Matrix: Water
Analysis Batch: 199775

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 199789

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Acenaphthene	0.306	I	0.3333	I	ug/L		9	25
Acenaphthylene	0.0774	U	0.07960	I	ug/L		NC	25
Anthracene	0.104	I	0.0863	U	ug/L		NC	24
Benzo[a]anthracene	0.0481	U	0.0481	U	ug/L		NC	19
Benzo[a]pyrene	0.0699	U	0.0699	U	ug/L		NC	20
Benzo[b]fluoranthene	0.0481	U	0.0481	U	ug/L		NC	20
Benzo[g,h,i]perylene	0.0668	U	0.0668	U	ug/L		NC	21
Benzo[k]fluoranthene	0.0796	U	0.0796	U	ug/L		NC	20
Chrysene	0.0654	U	0.0654	U	ug/L		NC	20
Dibenz(a,h)anthracene	0.0736	U	0.0736	U	ug/L		NC	22
Fluoranthene	0.224	U	0.224	U	ug/L		NC	24
Fluorene	0.502	I	0.5462	I	ug/L		8	25

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 660-88925-B-1-B DU
Matrix: Water
Analysis Batch: 199775

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 199789

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Indeno[1,2,3-cd]pyrene	0.0481	U	0.0481	U	ug/L		NC	21
1-Methylnaphthalene	7.70		8.826		ug/L		14	25
2-Methylnaphthalene	10.5		12.21		ug/L		15	30
Naphthalene	11.6		13.32		ug/L		14	35
Phenanthrene	0.830	U	0.830	U	ug/L		NC	27
Pyrene	0.107	I	0.09972	I	ug/L		7	21

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
Fluoranthene-d10	*74*		*35 - 140*
2-methylnaphthalene-d10	*59*		*19 - 110*

Lab Sample ID: MB 660-199853/1-A
Matrix: Solid
Analysis Batch: 199874

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 199853

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.45	U	6.80	1.45	ug/Kg		08/14/18 12:53	08/15/18 07:49	1
Acenaphthylene	1.48	U	6.80	1.48	ug/Kg		08/14/18 12:53	08/15/18 07:49	1
Anthracene	0.621	U	6.80	0.621	ug/Kg		08/14/18 12:53	08/15/18 07:49	1
Benzo[a]anthracene	1.53	U	6.80	1.53	ug/Kg		08/14/18 12:53	08/15/18 07:49	1
Benzo[a]pyrene	1.65	U	6.80	1.65	ug/Kg		08/14/18 12:53	08/15/18 07:49	1
Benzo[b]fluoranthene	1.64	U	6.80	1.64	ug/Kg		08/14/18 12:53	08/15/18 07:49	1
Benzo[g,h,i]perylene	1.67	U	6.80	1.67	ug/Kg		08/14/18 12:53	08/15/18 07:49	1
Benzo[k]fluoranthene	1.88	U	6.80	1.88	ug/Kg		08/14/18 12:53	08/15/18 07:49	1
Chrysene	1.58	U	6.80	1.58	ug/Kg		08/14/18 12:53	08/15/18 07:49	1
Dibenz(a,h)anthracene	1.65	U	6.80	1.65	ug/Kg		08/14/18 12:53	08/15/18 07:49	1
Fluoranthene	1.15	U	6.80	1.15	ug/Kg		08/14/18 12:53	08/15/18 07:49	1
Fluorene	1.46	U	6.80	1.46	ug/Kg		08/14/18 12:53	08/15/18 07:49	1
Indeno[1,2,3-cd]pyrene	1.53	U	6.80	1.53	ug/Kg		08/14/18 12:53	08/15/18 07:49	1
1-Methylnaphthalene	1.76	U	6.80	1.76	ug/Kg		08/14/18 12:53	08/15/18 07:49	1
2-Methylnaphthalene	3.06	U	10.2	3.06	ug/Kg		08/14/18 12:53	08/15/18 07:49	1
Naphthalene	3.19	U	10.2	3.19	ug/Kg		08/14/18 12:53	08/15/18 07:49	1
Phenanthrene	3.02	U	10.2	3.02	ug/Kg		08/14/18 12:53	08/15/18 07:49	1
Pyrene	1.61	U	6.80	1.61	ug/Kg		08/14/18 12:53	08/15/18 07:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluoranthene-d10	*87*		*25 - 150*	*08/14/18 12:53*	*08/15/18 07:49*	*1*
2-methylnaphthalene-d10	*72*		*20 - 150*	*08/14/18 12:53*	*08/15/18 07:49*	*1*

Lab Sample ID: LCS 660-199853/2-A
Matrix: Solid
Analysis Batch: 199874

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 199853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	333	297.8		ug/Kg		89	33 - 112
Acenaphthylene	333	321.9		ug/Kg		97	35 - 113
Anthracene	333	321.0		ug/Kg		96	43 - 115
Benzo[a]anthracene	333	377.3		ug/Kg		113	47 - 129

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 660-199853/2-A
Matrix: Solid
Analysis Batch: 199874

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 199853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]pyrene	333	353.1		ug/Kg		106	51 - 123
Benzo[b]fluoranthene	333	338.2		ug/Kg		102	51 - 125
Benzo[g,h,i]perylene	333	329.7		ug/Kg		99	40 - 127
Benzo[k]fluoranthene	333	297.5		ug/Kg		89	45 - 125
Chrysene	333	345.1		ug/Kg		104	45 - 127
Dibenz(a,h)anthracene	333	322.1		ug/Kg		97	44 - 128
Fluoranthene	333	305.6		ug/Kg		92	41 - 120
Fluorene	333	314.8		ug/Kg		95	36 - 118
Indeno[1,2,3-cd]pyrene	333	386.4		ug/Kg		116	44 - 126
1-Methylnaphthalene	333	279.2		ug/Kg		84	30 - 113
2-Methylnaphthalene	333	271.9		ug/Kg		82	29 - 112
Naphthalene	333	285.5		ug/Kg		86	31 - 114
Phenanthrene	333	308.9		ug/Kg		93	40 - 116
Pyrene	333	332.6		ug/Kg		100	45 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Fluoranthene-d10	*99*		*25 - 150*
2-methylnaphthalene-d10	*88*		*20 - 150*

Lab Sample ID: 660-88710-A-22-B MS
Matrix: Solid
Analysis Batch: 199874

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 199853

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	1.61	U	374	287.3		ug/Kg	☼	77	33 - 112
Acenaphthylene	2.32	I	374	308.7		ug/Kg	☼	82	35 - 113
Anthracene	3.95	I	374	336.9		ug/Kg	☼	89	43 - 115
Benzo[a]anthracene	41.5		374	428.3		ug/Kg	☼	103	47 - 129
Benzo[a]pyrene	83.5		374	399.6		ug/Kg	☼	84	51 - 123
Benzo[b]fluoranthene	149		374	402.9		ug/Kg	☼	68	51 - 125
Benzo[g,h,i]perylene	82.5		374	364.9		ug/Kg	☼	75	40 - 127
Benzo[k]fluoranthene	73.0		374	370.5		ug/Kg	☼	79	45 - 125
Chrysene	87.6		374	426.2		ug/Kg	☼	90	45 - 127
Dibenz(a,h)anthracene	21.6		374	335.5		ug/Kg	☼	84	44 - 128
Fluoranthene	100		374	378.3		ug/Kg	☼	74	41 - 120
Fluorene	1.62	U	374	320.2		ug/Kg	☼	86	36 - 118
Indeno[1,2,3-cd]pyrene	82.9		374	442.7		ug/Kg	☼	96	44 - 126
1-Methylnaphthalene	1.95	U	374	247.1		ug/Kg	☼	66	30 - 113
2-Methylnaphthalene	3.39	U	374	238.3		ug/Kg	☼	64	29 - 112
Naphthalene	3.53	U	374	233.6		ug/Kg	☼	62	31 - 114
Phenanthrene	38.3		374	342.9		ug/Kg	☼	81	40 - 116
Pyrene	1.79	U	374	388.2		ug/Kg	☼	104	45 - 127

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Fluoranthene-d10	*92*		*25 - 150*
2-methylnaphthalene-d10	*66*		*20 - 150*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 660-88710-A-22-C MSD
Matrix: Solid
Analysis Batch: 199874

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 199853

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	1.61	U	361	321.1		ug/Kg	☼	89	33 - 112	11	30
Acenaphthylene	2.32	I	361	342.2		ug/Kg	☼	94	35 - 113	10	30
Anthracene	3.95	I	361	342.4		ug/Kg	☼	94	43 - 115	2	30
Benzo[a]anthracene	41.5		361	420.2		ug/Kg	☼	105	47 - 129	2	30
Benzo[a]pyrene	83.5		361	387.0		ug/Kg	☼	84	51 - 123	3	30
Benzo[b]fluoranthene	149		361	380.1		ug/Kg	☼	64	51 - 125	6	30
Benzo[g,h,i]perylene	82.5		361	337.7		ug/Kg	☼	71	40 - 127	8	30
Benzo[k]fluoranthene	73.0		361	361.7		ug/Kg	☼	80	45 - 125	2	30
Chrysene	87.6		361	411.4		ug/Kg	☼	90	45 - 127	4	30
Dibenz(a,h)anthracene	21.6		361	319.4		ug/Kg	☼	82	44 - 128	5	30
Fluoranthene	100		361	374.2		ug/Kg	☼	76	41 - 120	1	30
Fluorene	1.62	U	361	342.4		ug/Kg	☼	95	36 - 118	7	30
Indeno[1,2,3-cd]pyrene	82.9		361	419.8		ug/Kg	☼	93	44 - 126	5	30
1-Methylnaphthalene	1.95	U	361	312.4		ug/Kg	☼	86	30 - 113	23	30
2-Methylnaphthalene	3.39	U	361	310.4		ug/Kg	☼	86	29 - 112	26	30
Naphthalene	3.53	U	361	308.6		ug/Kg	☼	85	31 - 114	28	30
Phenanthrene	38.3		361	352.5		ug/Kg	☼	87	40 - 116	3	30
Pyrene	1.79	U	361	378.9		ug/Kg	☼	105	45 - 127	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Fluoranthene-d10	*94*		*25 - 150*
2-methylnaphthalene-d10	*82*		*20 - 150*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 660-199854/3-A
Matrix: Water
Analysis Batch: 199856

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 199854

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EDB	0.00999	U	0.0300	0.00999	ug/L		08/14/18 12:45	08/14/18 15:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1,2-Tetrachloroethane	*114*		*70 - 130*	*08/14/18 12:45*	*08/14/18 15:17*	*1*

Lab Sample ID: LCS 660-199854/4-A
Matrix: Water
Analysis Batch: 199856

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 199854

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
EDB			0.473	0.4371		ug/L		92	70 - 141		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,1,1,2-Tetrachloroethane	*103*		*70 - 130*

Method: 8011 - EDB and DBCP in Water by Microextraction (Continued)

Lab Sample ID: LCSD 660-199854/5-A
Matrix: Water
Analysis Batch: 199856

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 199854

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
EDB			0.474	0.5224		ug/L		110	70 - 141	18	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,1,1,2-Tetrachloroethane	*98*		*70 - 130*

Lab Sample ID: 660-88942-F-1-A MS
Matrix: Water
Analysis Batch: 199856

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 199854

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
EDB	0.0100	U	0.474	0.5434		ug/L		115	70 - 141

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,1,1,2-Tetrachloroethane	*104*		*70 - 130*

Method: FL-PRO - Florida - Petroleum Range Organics (GC)

Lab Sample ID: MB 660-199803/1-A
Matrix: Water
Analysis Batch: 199837

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 199803

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FL PRO	0.672	U	4.00	0.672	mg/L		08/13/18 12:23	08/14/18 11:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*82 - 142*	*08/13/18 12:23*	*08/14/18 11:39*	*1*
n-C39	*89*		*42 - 193*	*08/13/18 12:23*	*08/14/18 11:39*	*1*

Lab Sample ID: LCS 660-199803/2-A
Matrix: Water
Analysis Batch: 199837

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 199803

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
FL PRO			6.80	5.351		mg/L		79	55 - 118

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*80*	*J1*	*82 - 142*
n-C39	*92*		*42 - 193*

Lab Sample ID: LCSD 660-199803/3-A
Matrix: Water
Analysis Batch: 199837

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 199803

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
FL PRO			6.80	5.165		mg/L		76	55 - 118	4	20

Method: FL-PRO - Florida - Petroleum Range Organics (GC) (Continued)

Lab Sample ID: LCSD 660-199803/3-A
Matrix: Water
Analysis Batch: 199837

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 199803

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	76	J1	82 - 142
n-C39	87		42 - 193

Lab Sample ID: 660-88935-5 MS
Matrix: Water
Analysis Batch: 199837

Client Sample ID: MW-South
Prep Type: Total/NA
Prep Batch: 199803

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
FL PRO	0.672	U	6.80	4.570		mg/L		67	55 - 118

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl	68	J1	82 - 142
n-C39	73		42 - 193

Lab Sample ID: MB 660-199846/1-A
Matrix: Solid
Analysis Batch: 199895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 199846

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FL PRO	2.97	U	12.0	2.97	mg/Kg		08/14/18 11:33	08/15/18 11:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	81		62 - 109	08/14/18 11:33	08/15/18 11:21	1
n-C39	96		60 - 118	08/14/18 11:33	08/15/18 11:21	1

Lab Sample ID: LCS 660-199846/2-A
Matrix: Solid
Analysis Batch: 199895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 199846

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
FL PRO	67.8	58.74		mg/Kg		87	63 - 153

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	83		62 - 109
n-C39	104		60 - 118

Lab Sample ID: 660-88936-A-2-C MS
Matrix: Solid
Analysis Batch: 199897

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 199846

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
FL PRO	52.9		79.6	124.6		mg/Kg	☼	90	62 - 204

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl	101		62 - 109
n-C39	87		60 - 118

Method: FL-PRO - Florida - Petroleum Range Organics (GC) (Continued)

Lab Sample ID: 660-88936-A-2-D MSD
Matrix: Solid
Analysis Batch: 199897

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 199846

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
FL PRO	52.9		79.8	124.9		mg/Kg	☼	90	62 - 204	0	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*96*		*62 - 109*
n-C39	*117*		*60 - 118*

GC/MS VOA

Analysis Batch: 199822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-88935-5	MW-South	Total/NA	Water	8260B	
MB 660-199822/8	Method Blank	Total/NA	Water	8260B	
LCS 660-199822/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 660-199822/6	Lab Control Sample Dup	Total/NA	Water	8260B	
660-88954-B-20 MS	Matrix Spike	Total/NA	Water	8260B	
660-88954-A-19 DU	Duplicate	Total/NA	Water	8260B	

Analysis Batch: 199824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-88935-2	OSB-2 South@2.5ft	Total/NA	Solid	8260B	199832
660-88935-3	STP-1 South@2ft	Total/NA	Solid	8260B	199832
660-88935-4	STP-2 South@2ft	Total/NA	Solid	8260B	199832
MB 660-199824/6	Method Blank	Total/NA	Solid	8260B	
LCS 660-199824/4	Lab Control Sample	Total/NA	Solid	8260B	
660-88935-3 MS	STP-1 South@2ft	Total/NA	Solid	8260B	199832
660-88935-2 DU	OSB-2 South@2.5ft	Total/NA	Solid	8260B	199832

Prep Batch: 199832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-88935-2	OSB-2 South@2.5ft	Total/NA	Solid	5035	
660-88935-3	STP-1 South@2ft	Total/NA	Solid	5035	
660-88935-4	STP-2 South@2ft	Total/NA	Solid	5035	
660-88935-3 MS	STP-1 South@2ft	Total/NA	Solid	5035	
660-88935-2 DU	OSB-2 South@2.5ft	Total/NA	Solid	5035	

Analysis Batch: 199888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-88935-1	OSB-1 North@2ft	Total/NA	Solid	8260B	199921
MB 660-199888/14	Method Blank	Total/NA	Solid	8260B	
LCS 660-199888/13	Lab Control Sample	Total/NA	Solid	8260B	
660-88935-1 MS	OSB-1 North@2ft	Total/NA	Solid	8260B	199921
660-88935-1 MSD	OSB-1 North@2ft	Total/NA	Solid	8260B	199921

Prep Batch: 199921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-88935-1	OSB-1 North@2ft	Total/NA	Solid	5030B	
660-88935-1 MS	OSB-1 North@2ft	Total/NA	Solid	5030B	
660-88935-1 MSD	OSB-1 North@2ft	Total/NA	Solid	5030B	

GC/MS Semi VOA

Analysis Batch: 199775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-88935-5	MW-South	Total/NA	Water	8270D SIM	199789
MB 660-199789/1-A	Method Blank	Total/NA	Water	8270D SIM	199789
LCS 660-199789/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	199789
660-88906-B-1-B MS	Matrix Spike	Total/NA	Water	8270D SIM	199789
660-88925-B-1-B DU	Duplicate	Total/NA	Water	8270D SIM	199789

GC/MS Semi VOA (Continued)

Prep Batch: 199789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-88935-5	MW-South	Total/NA	Water	3510C	
MB 660-199789/1-A	Method Blank	Total/NA	Water	3510C	
LCS 660-199789/2-A	Lab Control Sample	Total/NA	Water	3510C	
660-88906-B-1-B MS	Matrix Spike	Total/NA	Water	3510C	
660-88925-B-1-B DU	Duplicate	Total/NA	Water	3510C	

Prep Batch: 199853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-88935-1 - DL	OSB-1 North@2ft	Total/NA	Solid	3546	
660-88935-1	OSB-1 North@2ft	Total/NA	Solid	3546	
660-88935-2	OSB-2 South@2.5ft	Total/NA	Solid	3546	
660-88935-3	STP-1 South@2ft	Total/NA	Solid	3546	
660-88935-4	STP-2 South@2ft	Total/NA	Solid	3546	
MB 660-199853/1-A	Method Blank	Total/NA	Solid	3546	
LCS 660-199853/2-A	Lab Control Sample	Total/NA	Solid	3546	
660-88710-A-22-B MS	Matrix Spike	Total/NA	Solid	3546	
660-88710-A-22-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 199874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-88935-1	OSB-1 North@2ft	Total/NA	Solid	8270D SIM	199853
660-88935-1 - DL	OSB-1 North@2ft	Total/NA	Solid	8270D SIM	199853
660-88935-2	OSB-2 South@2.5ft	Total/NA	Solid	8270D SIM	199853
660-88935-3	STP-1 South@2ft	Total/NA	Solid	8270D SIM	199853
660-88935-4	STP-2 South@2ft	Total/NA	Solid	8270D SIM	199853
MB 660-199853/1-A	Method Blank	Total/NA	Solid	8270D SIM	199853
LCS 660-199853/2-A	Lab Control Sample	Total/NA	Solid	8270D SIM	199853
660-88710-A-22-B MS	Matrix Spike	Total/NA	Solid	8270D SIM	199853
660-88710-A-22-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8270D SIM	199853

GC Semi VOA

Prep Batch: 199803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-88935-5	MW-South	Total/NA	Water	3510C	
MB 660-199803/1-A	Method Blank	Total/NA	Water	3510C	
LCS 660-199803/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 660-199803/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
660-88935-5 MS	MW-South	Total/NA	Water	3510C	

Analysis Batch: 199837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-88935-5	MW-South	Total/NA	Water	FL-PRO	199803
MB 660-199803/1-A	Method Blank	Total/NA	Water	FL-PRO	199803
LCS 660-199803/2-A	Lab Control Sample	Total/NA	Water	FL-PRO	199803
LCSD 660-199803/3-A	Lab Control Sample Dup	Total/NA	Water	FL-PRO	199803
660-88935-5 MS	MW-South	Total/NA	Water	FL-PRO	199803

GC Semi VOA (Continued)

Prep Batch: 199846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-88935-1	OSB-1 North@2ft	Total/NA	Solid	3550B	
660-88935-2	OSB-2 South@2.5ft	Total/NA	Solid	3550B	
660-88935-3	STP-1 South@2ft	Total/NA	Solid	3550B	
660-88935-4	STP-2 South@2ft	Total/NA	Solid	3550B	
MB 660-199846/1-A	Method Blank	Total/NA	Solid	3550B	
LCS 660-199846/2-A	Lab Control Sample	Total/NA	Solid	3550B	
660-88936-A-2-C MS	Matrix Spike	Total/NA	Solid	3550B	
660-88936-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3550B	

Prep Batch: 199854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-88935-5	MW-South	Total/NA	Water	8011	
MB 660-199854/3-A	Method Blank	Total/NA	Water	8011	
LCS 660-199854/4-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 660-199854/5-A	Lab Control Sample Dup	Total/NA	Water	8011	
660-88942-F-1-A MS	Matrix Spike	Total/NA	Water	8011	

Analysis Batch: 199856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-88935-5	MW-South	Total/NA	Water	8011	199854
MB 660-199854/3-A	Method Blank	Total/NA	Water	8011	199854
LCS 660-199854/4-A	Lab Control Sample	Total/NA	Water	8011	199854
LCSD 660-199854/5-A	Lab Control Sample Dup	Total/NA	Water	8011	199854
660-88942-F-1-A MS	Matrix Spike	Total/NA	Water	8011	199854

Analysis Batch: 199895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-199846/1-A	Method Blank	Total/NA	Solid	FL-PRO	199846
LCS 660-199846/2-A	Lab Control Sample	Total/NA	Solid	FL-PRO	199846

Analysis Batch: 199897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-88935-1	OSB-1 North@2ft	Total/NA	Solid	FL-PRO	199846
660-88935-2	OSB-2 South@2.5ft	Total/NA	Solid	FL-PRO	199846
660-88935-3	STP-1 South@2ft	Total/NA	Solid	FL-PRO	199846
660-88935-4	STP-2 South@2ft	Total/NA	Solid	FL-PRO	199846
660-88936-A-2-C MS	Matrix Spike	Total/NA	Solid	FL-PRO	199846
660-88936-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	FL-PRO	199846

General Chemistry

Analysis Batch: 199834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-88935-1	OSB-1 North@2ft	Total/NA	Solid	Moisture	
660-88935-2	OSB-2 South@2.5ft	Total/NA	Solid	Moisture	
660-88935-3	STP-1 South@2ft	Total/NA	Solid	Moisture	
660-88935-4	STP-2 South@2ft	Total/NA	Solid	Moisture	
660-88917-D-1 DU	Duplicate	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Aptim Environmental & Infrastructure Inc
Project/Site: 7-11 No 37926(FL)

TestAmerica Job ID: 660-88935-1

Client Sample ID: OSB-1 North@2ft — Lab Sample ID: 660-88935-1

Date Collected: 08/10/18 12:00 — **Matrix: Solid**
Date Received: 08/10/18 15:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	199834	08/14/18 08:17	AJG	TAL TAM

Client Sample ID: OSB-1 North@2ft — Lab Sample ID: 660-88935-1

Date Collected: 08/10/18 12:00 — **Matrix: Solid**
Date Received: 08/10/18 15:39 — **Percent Solids: 94.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			199921	08/14/18 09:00	ECC	TAL TAM
Total/NA	Analysis	8260B		2000	199888	08/15/18 14:50	ECC	TAL TAM
Total/NA	Prep	3546			199853	08/14/18 12:53	BKM	TAL TAM
Total/NA	Analysis	8270D SIM		50	199874	08/15/18 11:04	MWJ	TAL TAM
Total/NA	Prep	3546	DL		199853	08/14/18 12:53	BKM	TAL TAM
Total/NA	Analysis	8270D SIM	DL	100	199874	08/15/18 12:09	MWJ	TAL TAM
Total/NA	Prep	3550B			199846	08/14/18 11:33	ESJ	TAL TAM
Total/NA	Analysis	FL-PRO		1	199897	08/15/18 11:40	PC1	TAL TAM

Client Sample ID: OSB-2 South@2.5ft — Lab Sample ID: 660-88935-2

Date Collected: 08/10/18 12:10 — **Matrix: Solid**
Date Received: 08/10/18 15:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	199834	08/14/18 08:27	AJG	TAL TAM

Client Sample ID: OSB-2 South@2.5ft — Lab Sample ID: 660-88935-2

Date Collected: 08/10/18 12:10 — **Matrix: Solid**
Date Received: 08/10/18 15:39 — **Percent Solids: 92.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			199832	08/14/18 09:20	ECC	TAL TAM
Total/NA	Analysis	8260B		1	199824	08/14/18 09:37	ECC	TAL TAM
Total/NA	Prep	3546			199853	08/14/18 12:53	BKM	TAL TAM
Total/NA	Analysis	8270D SIM		1	199874	08/15/18 09:59	MWJ	TAL TAM
Total/NA	Prep	3550B			199846	08/14/18 11:34	ESJ	TAL TAM
Total/NA	Analysis	FL-PRO		1	199897	08/15/18 11:59	PC1	TAL TAM

Client Sample ID: STP-1 South@2ft — Lab Sample ID: 660-88935-3

Date Collected: 08/10/18 12:20 — **Matrix: Solid**
Date Received: 08/10/18 15:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	199834	08/14/18 08:24	AJG	TAL TAM

Lab Chronicle

Client: Aptim Environmental & Infrastructure Inc
Project/Site: 7-11 No 37926(FL)

TestAmerica Job ID: 660-88935-1

Client Sample ID: STP-1 South@2ft

Lab Sample ID: 660-88935-3
Date Collected: 08/10/18 12:20
Matrix: Solid
Date Received: 08/10/18 15:39
Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			199832	08/14/18 09:20	ECC	TAL TAM
Total/NA	Analysis	8260B		1	199824	08/14/18 09:56	ECC	TAL TAM
Total/NA	Prep	3546			199853	08/14/18 12:53	BKM	TAL TAM
Total/NA	Analysis	8270D SIM		1	199874	08/15/18 10:21	MWJ	TAL TAM
Total/NA	Prep	3550B			199846	08/14/18 11:33	ESJ	TAL TAM
Total/NA	Analysis	FL-PRO		1	199897	08/15/18 12:19	PC1	TAL TAM

Client Sample ID: STP-2 South@2ft

Lab Sample ID: 660-88935-4
Date Collected: 08/10/18 12:30
Matrix: Solid
Date Received: 08/10/18 15:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	199834	08/14/18 08:36	AJG	TAL TAM

Client Sample ID: STP-2 South@2ft

Lab Sample ID: 660-88935-4
Date Collected: 08/10/18 12:30
Matrix: Solid
Date Received: 08/10/18 15:39
Percent Solids: 92.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			199832	08/14/18 09:21	ECC	TAL TAM
Total/NA	Analysis	8260B		1	199824	08/14/18 10:15	ECC	TAL TAM
Total/NA	Prep	3546			199853	08/14/18 12:53	BKM	TAL TAM
Total/NA	Analysis	8270D SIM		1	199874	08/15/18 10:42	MWJ	TAL TAM
Total/NA	Prep	3550B			199846	08/14/18 11:33	ESJ	TAL TAM
Total/NA	Analysis	FL-PRO		1	199897	08/15/18 12:38	PC1	TAL TAM

Client Sample ID: MW-South

Lab Sample ID: 660-88935-5
Date Collected: 08/10/18 10:20
Matrix: Water
Date Received: 08/10/18 15:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	199822	08/14/18 15:46	K1P	TAL TAM
Total/NA	Prep	3510C			199789	08/13/18 09:34	EM	TAL TAM
Total/NA	Analysis	8270D SIM		1	199775	08/13/18 15:22	MWJ	TAL TAM
Total/NA	Prep	8011			199854	08/14/18 12:45	PC1	TAL TAM
Total/NA	Analysis	8011		1	199856	08/14/18 16:08	MDS	TAL TAM
Total/NA	Prep	3510C			199803	08/13/18 12:23	EM	TAL TAM
Total/NA	Analysis	FL-PRO		1	199837	08/14/18 12:37	PC1	TAL TAM

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Method Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: 7-11 No 37926(FL)

TestAmerica Job ID: 660-88935-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL TAM
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL TAM
8011	EDB and DBCP in Water by Microextraction	EPA	TAL TAM
FL-PRO	Florida - Petroleum Range Organics (GC)	FL-DEP	TAL TAM
Moisture	Percent Moisture	EPA	TAL TAM
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL TAM
3546	Microwave Extraction	SW846	TAL TAM
3550B	Ultrasonic Extraction	SW846	TAL TAM
5030B	Purge and Trap	SW846	TAL TAM
5035	Closed System Purge and Trap	SW846	TAL TAM
8011	Microextraction	SW846	TAL TAM

Protocol References:

EPA = US Environmental Protection Agency

FL-DEP = State Of Florida Department Of Environmental Protection, Florida Administrative Code.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Accreditation/Certification Summary

Client: Aptim Environmental & Infrastructure Inc
TestAmerica Job ID: 660-88935-1
Project/Site: 7-11 No 37926(FL)

Laboratory: TestAmerica Tampa

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Florida	NELAP	4	E84282	06-30-19

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: TestAmerica Nashville

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Florida	NELAP	4	E87358	06-30-19

TestAmerica Tampa
6712 Benjamin Road
Suite 100
Tampa, FL 33634
Phone: 813.885.7427 Fax:

Chain of Custody Record

234236

HOLD SPLPs & MAVPH/MAEPH

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other: FL-11

Client Contact	Project Manager: Brett Bohenstin	Site Contact:	Date:	COC No:
Company Name: APTIM Environmental	Tel/Fax:	Lab Contact:	Carrier:	1 of 1 COCs
Address: 725 US Hwy 301 South	Analysis Turnaround Time			Sampler:
City/State/Zip: Tampa, FL 33619	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 813-612-3609	TAT if different from Below			Walk-in Client:
Fax:	☐ 2 weeks 72 hrs			Lab Sampling:
Project Name: 7-Eleven Store No. 27926	☐ 1 week			Job / SDG No.:
Site: Ocoee, FL	☐ 2 days			
PO #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	8260B VOA/VOH (water)	FL-PRO (water)	8270D-SIM PAH (water)	Sol. EDB (water)	6010 - Pb (water)	8260B - BTEXMTBE (50:1)	8270 PAH (50:1)	FL-PRO (50:1)	8260B - SPLP BTEX	8270D-SIM PAH SPLP	MAVPH - Methanol VPH	MAEPH - MAEPH (Hold)	Sample Specific Notes:
OSB-1 North @ 2ft	8.10.18	1200	G	S									X	X	X	X	X	X	X	7-Eleven Pricing
OSB-2 South @ 2.5ft		1210																		
STP-1 South @ 2 ft		1220																		72 hr TAT
STP-2 South @ 2 ft		1230																		
MW-South		1020		W				X	X	X	X	X								HOLD, SPLPs & MAVPH/MAEPH

Loc: 660
88935

660-88935 Chain of Custody

LAB PM
Jimmy Huckaba
Jimmy.Huckaba@testamericainc.com

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

	Company	Date/Time		Company	Date/Time
Relinquished by:	APTIM	8.10.18/1539	Received by: Courtney Edwards	TH Tampa	8/10/18 1539
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

1.8/2.0 2.0/2.2 CU-09

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Tampa
6712 Benjamin Road
Suite 100
Tampa, FL 33634
Tel: (813)885-7427

TestAmerica Job ID: 660-89088-1
Client Project/Site: 7-11 No 37926(FL)

For:
Aptim Environmental & Infrastructure Inc
5725 NW 159th Street
Miami Lakes, Florida 33014

Attn: Mr. Brett Bohentin

Authorized for release by:
8/23/2018 6:15:08 PM

Jimmy Huckaba, Project Manager I
(615)301-5746
jimmy.huckaba@testamericainc.com

Links

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: 7-11 No 37926(FL)

TestAmerica Job ID: 660-89088-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-89088-1	West Wall @ 2'	Solid	08/20/18 14:05	08/20/18 17:15
660-89088-2	North Wall @ 2'	Solid	08/20/18 14:13	08/20/18 17:15

Case Narrative

Client: Aptim Environmental & Infrastructure Inc
Project/Site: 7-11 No 37926(FL)

TestAmerica Job ID: 660-89088-1

Job ID: 660-89088-1

Laboratory: TestAmerica Tampa

Narrative

Job Narrative
660-89088-1

Comments
No additional comments.

Receipt
The samples were received on 8/20/2018 5:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.8º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D SIM: The Method Blank for analytical batch 200248 and prep batch 200240 contained analytes Anthracene and Phenanthrene above the RL/PQL. (MB 660-200240/1-A). Low level hits for Phenanthrene was present in West Wall @ 2' (660-89088-1).

The Method Blank for analytical batch 200248 and prep batch 200240 contained analyte Fluorene above the MDL but below the PQL in the Method Blank and West Wall @ 2' (660-89088-1).

The Method Blank for analytical batch 200248 and prep batch 200240 contained analyte Fluoranthene above the MDL but below the PQL in the Method Blank, West Wall @ 2' (660-89088-1), and North Wall @ 2' (660-89088-2),

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Indicates that the compound was analyzed for but not detected.
V	Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample ID: West Wall @ 2'
Date Collected: 08/20/18 14:05
Date Received: 08/20/18 17:15

Lab Sample ID: 660-89088-1
Matrix: Solid
Percent Solids: 94.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00319	U	0.00966	0.00319	mg/Kg	☼	08/21/18 08:55	08/21/18 11:37	1
Toluene	0.00368	U	0.0145	0.00368	mg/Kg	☼	08/21/18 08:55	08/21/18 11:37	1
Ethylbenzene	0.00279	U	0.00966	0.00279	mg/Kg	☼	08/21/18 08:55	08/21/18 11:37	1
Xylenes, Total	0.00270	U	0.0145	0.00270	mg/Kg	☼	08/21/18 08:55	08/21/18 11:37	1
Methyl tert-butyl ether	0.00152	U	0.00966	0.00152	mg/Kg	☼	08/21/18 08:55	08/21/18 11:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*69 - 130*	*08/21/18 08:55*	*08/21/18 11:37*	*1*
Dibromofluoromethane	*104*		*63 - 139*	*08/21/18 08:55*	*08/21/18 11:37*	*1*
Toluene-d8 (Surr)	*100*		*67 - 138*	*08/21/18 08:55*	*08/21/18 11:37*	*1*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.00150	U	0.00705	0.00150	mg/Kg	☼	08/23/18 07:28	08/23/18 14:18	1
Acenaphthylene	0.00154	U	0.00705	0.00154	mg/Kg	☼	08/23/18 07:28	08/23/18 14:18	1
Anthracene	0.000643	U	0.00705	0.000643	mg/Kg	☼	08/23/18 07:28	08/23/18 14:18	1
Benzo[a]anthracene	0.00159	U	0.00705	0.00159	mg/Kg	☼	08/23/18 07:28	08/23/18 14:18	1
Benzo[a]pyrene	0.00170	U	0.00705	0.00170	mg/Kg	☼	08/23/18 07:28	08/23/18 14:18	1
Benzo[b]fluoranthene	0.00169	U	0.00705	0.00169	mg/Kg	☼	08/23/18 07:28	08/23/18 14:18	1
Benzo[g,h,i]perylene	0.00172	U	0.00705	0.00172	mg/Kg	☼	08/23/18 07:28	08/23/18 14:18	1
Benzo[k]fluoranthene	0.00195	U	0.00705	0.00195	mg/Kg	☼	08/23/18 07:28	08/23/18 14:18	1
Chrysene	0.00164	U	0.00705	0.00164	mg/Kg	☼	08/23/18 07:28	08/23/18 14:18	1
Dibenz(a,h)anthracene	0.00170	U	0.00705	0.00170	mg/Kg	☼	08/23/18 07:28	08/23/18 14:18	1
Fluoranthene	**0.00574**	**I V**	0.00705	0.00119	mg/Kg	☼	08/23/18 07:28	08/23/18 14:18	1
Fluorene	**0.00324**	**I V**	0.00705	0.00151	mg/Kg	☼	08/23/18 07:28	08/23/18 14:18	1
Indeno[1,2,3-cd]pyrene	0.00159	U	0.00705	0.00159	mg/Kg	☼	08/23/18 07:28	08/23/18 14:18	1
1-Methylnaphthalene	**0.00423**	**I**	0.00705	0.00182	mg/Kg	☼	08/23/18 07:28	08/23/18 14:18	1
2-Methylnaphthalene	**0.00749**	**I**	0.0105	0.00317	mg/Kg	☼	08/23/18 07:28	08/23/18 14:18	1
Naphthalene	**0.00778**	**I**	0.0105	0.00330	mg/Kg	☼	08/23/18 07:28	08/23/18 14:18	1
Phenanthrene	**0.0220**	**V**	0.0105	0.00312	mg/Kg	☼	08/23/18 07:28	08/23/18 14:18	1
Pyrene	0.00167	U	0.00705	0.00167	mg/Kg	☼	08/23/18 07:28	08/23/18 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluoranthene-d10	*87*		*25 - 150*	*08/23/18 07:28*	*08/23/18 14:18*	*1*
2-methylnaphthalene-d10	*77*		*20 - 150*	*08/23/18 07:28*	*08/23/18 14:18*	*1*

Client Sample ID: North Wall @ 2'
Date Collected: 08/20/18 14:13
Date Received: 08/20/18 17:15

Lab Sample ID: 660-89088-2
Matrix: Solid
Percent Solids: 94.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00324	U	0.00983	0.00324	mg/Kg	☼	08/21/18 08:56	08/21/18 11:56	1
Toluene	0.00374	U	0.0147	0.00374	mg/Kg	☼	08/21/18 08:56	08/21/18 11:56	1
Ethylbenzene	0.00284	U	0.00983	0.00284	mg/Kg	☼	08/21/18 08:56	08/21/18 11:56	1
Xylenes, Total	0.00274	U	0.0147	0.00274	mg/Kg	☼	08/21/18 08:56	08/21/18 11:56	1
Methyl tert-butyl ether	0.00154	U	0.00983	0.00154	mg/Kg	☼	08/21/18 08:56	08/21/18 11:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*69 - 130*	*08/21/18 08:56*	*08/21/18 11:56*	*1*
Dibromofluoromethane	*100*		*63 - 139*	*08/21/18 08:56*	*08/21/18 11:56*	*1*
Toluene-d8 (Surr)	*98*		*67 - 138*	*08/21/18 08:56*	*08/21/18 11:56*	*1*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.00151	U	0.00709	0.00151	mg/Kg	☼	08/23/18 07:28	08/23/18 14:39	1
Acenaphthylene	0.00154	U	0.00709	0.00154	mg/Kg	☼	08/23/18 07:28	08/23/18 14:39	1
Anthracene	0.000646	U	0.00709	0.000646	mg/Kg	☼	08/23/18 07:28	08/23/18 14:39	1
Benzo[a]anthracene	0.00160	U	0.00709	0.00160	mg/Kg	☼	08/23/18 07:28	08/23/18 14:39	1
Benzo[a]pyrene	0.00171	U	0.00709	0.00171	mg/Kg	☼	08/23/18 07:28	08/23/18 14:39	1
Benzo[b]fluoranthene	0.00170	U	0.00709	0.00170	mg/Kg	☼	08/23/18 07:28	08/23/18 14:39	1
Benzo[g,h,i]perylene	0.00174	U	0.00709	0.00174	mg/Kg	☼	08/23/18 07:28	08/23/18 14:39	1
Benzo[k]fluoranthene	0.00196	U	0.00709	0.00196	mg/Kg	☼	08/23/18 07:28	08/23/18 14:39	1
Chrysene	0.00165	U	0.00709	0.00165	mg/Kg	☼	08/23/18 07:28	08/23/18 14:39	1
Dibenz(a,h)anthracene	0.00171	U	0.00709	0.00171	mg/Kg	☼	08/23/18 07:28	08/23/18 14:39	1
Fluoranthene	**0.00205**	**I V**	0.00709	0.00120	mg/Kg	☼	08/23/18 07:28	08/23/18 14:39	1
Fluorene	0.00152	U	0.00709	0.00152	mg/Kg	☼	08/23/18 07:28	08/23/18 14:39	1
Indeno[1,2,3-cd]pyrene	0.00160	U	0.00709	0.00160	mg/Kg	☼	08/23/18 07:28	08/23/18 14:39	1
1-Methylnaphthalene	0.00183	U	0.00709	0.00183	mg/Kg	☼	08/23/18 07:28	08/23/18 14:39	1
2-Methylnaphthalene	0.00318	U	0.0106	0.00318	mg/Kg	☼	08/23/18 07:28	08/23/18 14:39	1
Naphthalene	0.00332	U	0.0106	0.00332	mg/Kg	☼	08/23/18 07:28	08/23/18 14:39	1
Phenanthrene	**0.00816**	**I V**	0.0106	0.00314	mg/Kg	☼	08/23/18 07:28	08/23/18 14:39	1
Pyrene	0.00168	U	0.00709	0.00168	mg/Kg	☼	08/23/18 07:28	08/23/18 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluoranthene-d10	*89*		*25 - 150*	*08/23/18 07:28*	*08/23/18 14:39*	*1*
2-methylnaphthalene-d10	*78*		*20 - 150*	*08/23/18 07:28*	*08/23/18 14:39*	*1*

Client: Aptim Environmental & Infrastructure Inc
Project/Site: 7-11 No 37926(FL)

TestAmerica Job ID: 660-89088-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 660-200136/6
Matrix: Solid
Analysis Batch: 200136

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00330	U	0.0100	0.00330	mg/Kg			08/21/18 11:12	1
Toluene	0.00381	U	0.0150	0.00381	mg/Kg			08/21/18 11:12	1
Ethylbenzene	0.00289	U	0.0100	0.00289	mg/Kg			08/21/18 11:12	1
Xylenes, Total	0.00279	U	0.0150	0.00279	mg/Kg			08/21/18 11:12	1
Methyl tert-butyl ether	0.00157	U	0.0100	0.00157	mg/Kg			08/21/18 11:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*69 - 130*		*08/21/18 11:12*	*1*
Dibromofluoromethane	*101*		*63 - 139*		*08/21/18 11:12*	*1*
Toluene-d8 (Surr)	*100*		*67 - 138*		*08/21/18 11:12*	*1*

Lab Sample ID: LCS 660-200136/4
Matrix: Solid
Analysis Batch: 200136

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.04965		mg/Kg		99	62 - 130
Toluene	0.0500	0.04872		mg/Kg		97	76 - 130
Ethylbenzene	0.0500	0.04609		mg/Kg		92	68 - 130
Xylenes, Total	0.100	0.09419		mg/Kg		94	63 - 130
Methyl tert-butyl ether	0.0500	0.04723		mg/Kg		94	61 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*69 - 130*
Dibromofluoromethane	*100*		*63 - 139*
Toluene-d8 (Surr)	*102*		*67 - 138*

Lab Sample ID: 660-89088-2 MS
Matrix: Solid
Analysis Batch: 200136

Client Sample ID: North Wall @ 2'
Prep Type: Total/NA
Prep Batch: 200140

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.00324	U	0.0489	0.04685		mg/Kg	☼	96	62 - 130
Toluene	0.00374	U	0.0489	0.04688		mg/Kg	☼	96	76 - 130
Ethylbenzene	0.00284	U	0.0489	0.04499		mg/Kg	☼	92	68 - 130
Xylenes, Total	0.00274	U	0.0977	0.09081		mg/Kg	☼	93	63 - 130
Methyl tert-butyl ether	0.00154	U	0.0489	0.04573		mg/Kg	☼	94	61 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*69 - 130*
Dibromofluoromethane	*100*		*63 - 139*
Toluene-d8 (Surr)	*102*		*67 - 138*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 660-89088-1 DU
Matrix: Solid
Analysis Batch: 200136

Client Sample ID: West Wall @ 2'
Prep Type: Total/NA
Prep Batch: 200140

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Benzene	0.00319	U	0.00334	U	mg/Kg	☼	NC	40
Toluene	0.00368	U	0.00386	U	mg/Kg	☼	NC	40
Ethylbenzene	0.00279	U	0.00293	U	mg/Kg	☼	NC	40
Xylenes, Total	0.00270	U	0.00283	U	mg/Kg	☼	NC	40
Methyl tert-butyl ether	0.00152	U	0.00159	U	mg/Kg	☼	NC	40

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*69 - 130*
Dibromofluoromethane	*103*		*63 - 139*
Toluene-d8 (Surr)	*98*		*67 - 138*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 660-200240/1-A
Matrix: Solid
Analysis Batch: 200248

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 200240

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.00141	U	0.00662	0.00141	mg/Kg		08/23/18 07:28	08/23/18 13:35	1
Acenaphthylene	0.00144	U	0.00662	0.00144	mg/Kg		08/23/18 07:28	08/23/18 13:35	1
Anthracene	0.02465		0.00662	0.000603	mg/Kg		08/23/18 07:28	08/23/18 13:35	1
Benzo[a]anthracene	0.00149	U	0.00662	0.00149	mg/Kg		08/23/18 07:28	08/23/18 13:35	1
Benzo[a]pyrene	0.00160	U	0.00662	0.00160	mg/Kg		08/23/18 07:28	08/23/18 13:35	1
Benzo[b]fluoranthene	0.00159	U	0.00662	0.00159	mg/Kg		08/23/18 07:28	08/23/18 13:35	1
Benzo[g,h,i]perylene	0.00162	U	0.00662	0.00162	mg/Kg		08/23/18 07:28	08/23/18 13:35	1
Benzo[k]fluoranthene	0.00183	U	0.00662	0.00183	mg/Kg		08/23/18 07:28	08/23/18 13:35	1
Chrysene	0.00154	U	0.00662	0.00154	mg/Kg		08/23/18 07:28	08/23/18 13:35	1
Dibenz(a,h)anthracene	0.00160	U	0.00662	0.00160	mg/Kg		08/23/18 07:28	08/23/18 13:35	1
Fluoranthene	0.006051	I	0.00662	0.00112	mg/Kg		08/23/18 07:28	08/23/18 13:35	1
Fluorene	0.003428	I	0.00662	0.00142	mg/Kg		08/23/18 07:28	08/23/18 13:35	1
Indeno[1,2,3-cd]pyrene	0.00149	U	0.00662	0.00149	mg/Kg		08/23/18 07:28	08/23/18 13:35	1
1-Methylnaphthalene	0.00171	U	0.00662	0.00171	mg/Kg		08/23/18 07:28	08/23/18 13:35	1
2-Methylnaphthalene	0.00297	U	0.00987	0.00297	mg/Kg		08/23/18 07:28	08/23/18 13:35	1
Naphthalene	0.00310	U	0.00987	0.00310	mg/Kg		08/23/18 07:28	08/23/18 13:35	1
Phenanthrene	0.02326		0.00987	0.00293	mg/Kg		08/23/18 07:28	08/23/18 13:35	1
Pyrene	0.002228	I	0.00662	0.00157	mg/Kg		08/23/18 07:28	08/23/18 13:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluoranthene-d10	*85*		*25 - 150*	*08/23/18 07:28*	*08/23/18 13:35*	*1*
2-methylnaphthalene-d10	*76*		*20 - 150*	*08/23/18 07:28*	*08/23/18 13:35*	*1*

Lab Sample ID: LCS 660-200240/2-A
Matrix: Solid
Analysis Batch: 200248

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 200240

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.334	0.2542		mg/Kg		76	33 - 112

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 660-200240/2-A
Matrix: Solid
Analysis Batch: 200248

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 200240

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	0.334	0.2774		mg/Kg		83	35 - 113
Anthracene	0.334	0.2831		mg/Kg		85	43 - 115
Benzo[a]anthracene	0.334	0.3028		mg/Kg		91	47 - 129
Benzo[a]pyrene	0.334	0.2747		mg/Kg		82	51 - 123
Benzo[b]fluoranthene	0.334	0.2593		mg/Kg		78	51 - 125
Benzo[g,h,i]perylene	0.334	0.2746		mg/Kg		82	40 - 127
Benzo[k]fluoranthene	0.334	0.2463		mg/Kg		74	45 - 125
Chrysene	0.334	0.2979		mg/Kg		89	45 - 127
Dibenz(a,h)anthracene	0.334	0.2652		mg/Kg		80	44 - 128
Fluoranthene	0.334	0.2779		mg/Kg		83	41 - 120
Fluorene	0.334	0.2732		mg/Kg		82	36 - 118
Indeno[1,2,3-cd]pyrene	0.334	0.3360		mg/Kg		101	44 - 126
1-Methylnaphthalene	0.334	0.2446		mg/Kg		73	30 - 113
2-Methylnaphthalene	0.334	0.2378		mg/Kg		71	29 - 112
Naphthalene	0.334	0.2439		mg/Kg		73	31 - 114
Phenanthrene	0.334	0.2774		mg/Kg		83	40 - 116
Pyrene	0.334	0.2598		mg/Kg		78	45 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Fluoranthene-d10	*86*		*25 - 150*
2-methylnaphthalene-d10	*75*		*20 - 150*

Lab Sample ID: 660-89088-1 MS
Matrix: Solid
Analysis Batch: 200248

Client Sample ID: West Wall @ 2'
Prep Type: Total/NA
Prep Batch: 200240

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.00150	U	0.360	0.2705		mg/Kg	☼	75	33 - 112
Acenaphthylene	0.00154	U	0.360	0.2976		mg/Kg	☼	83	35 - 113
Anthracene	0.000643	U	0.360	0.3108		mg/Kg	☼	86	43 - 115
Benzo[a]anthracene	0.00159	U	0.360	0.3325		mg/Kg	☼	92	47 - 129
Benzo[a]pyrene	0.00170	U	0.360	0.3083		mg/Kg	☼	86	51 - 123
Benzo[b]fluoranthene	0.00169	U	0.360	0.2905		mg/Kg	☼	81	51 - 125
Benzo[g,h,i]perylene	0.00172	U	0.360	0.2988		mg/Kg	☼	83	40 - 127
Benzo[k]fluoranthene	0.00195	U	0.360	0.2639		mg/Kg	☼	73	45 - 125
Chrysene	0.00164	U	0.360	0.3191		mg/Kg	☼	89	45 - 127
Dibenz(a,h)anthracene	0.00170	U	0.360	0.2923		mg/Kg	☼	81	44 - 128
Fluoranthene	0.00574	I V	0.360	0.2961		mg/Kg	☼	81	41 - 120
Fluorene	0.00324	I V	0.360	0.2900		mg/Kg	☼	80	36 - 118
Indeno[1,2,3-cd]pyrene	0.00159	U	0.360	0.3654		mg/Kg	☼	102	44 - 126
1-Methylnaphthalene	0.00423	I	0.360	0.2698		mg/Kg	☼	74	30 - 113
2-Methylnaphthalene	0.00749	I	0.360	0.2677		mg/Kg	☼	72	29 - 112
Naphthalene	0.00778	I	0.360	0.2755		mg/Kg	☼	74	31 - 114
Phenanthrene	0.0220	V	0.360	0.2899		mg/Kg	☼	75	40 - 116
Pyrene	0.00167	U	0.360	0.2765		mg/Kg	☼	77	45 - 127

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 660-89088-1 MS
Matrix: Solid
Analysis Batch: 200248

Client Sample ID: West Wall @ 2'
Prep Type: Total/NA
Prep Batch: 200240

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Fluoranthene-d10	*85*		*25 - 150*
2-methylnaphthalene-d10	*75*		*20 - 150*

Lab Sample ID: 660-89088-1 MSD
Matrix: Solid
Analysis Batch: 200248

Client Sample ID: West Wall @ 2'
Prep Type: Total/NA
Prep Batch: 200240

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	0.00150	U	0.348	0.2780		mg/Kg	☼	80	33 - 112	3	30
Acenaphthylene	0.00154	U	0.348	0.3060		mg/Kg	☼	88	35 - 113	3	30
Anthracene	0.000643	U	0.348	0.3168		mg/Kg	☼	91	43 - 115	2	30
Benzo[a]anthracene	0.00159	U	0.348	0.3393		mg/Kg	☼	97	47 - 129	2	30
Benzo[a]pyrene	0.00170	U	0.348	0.3177		mg/Kg	☼	91	51 - 123	3	30
Benzo[b]fluoranthene	0.00169	U	0.348	0.2983		mg/Kg	☼	86	51 - 125	3	30
Benzo[g,h,i]perylene	0.00172	U	0.348	0.3083		mg/Kg	☼	88	40 - 127	3	30
Benzo[k]fluoranthene	0.00195	U	0.348	0.2667		mg/Kg	☼	77	45 - 125	1	30
Chrysene	0.00164	U	0.348	0.3257		mg/Kg	☼	93	45 - 127	2	30
Dibenz(a,h)anthracene	0.00170	U	0.348	0.2998		mg/Kg	☼	86	44 - 128	3	30
Fluoranthene	0.00574	I V	0.348	0.2975		mg/Kg	☼	84	41 - 120	0	30
Fluorene	0.00324	I V	0.348	0.2980		mg/Kg	☼	85	36 - 118	3	30
Indeno[1,2,3-cd]pyrene	0.00159	U	0.348	0.3735		mg/Kg	☼	107	44 - 126	2	30
1-Methylnaphthalene	0.00423	I	0.348	0.2772		mg/Kg	☼	78	30 - 113	3	30
2-Methylnaphthalene	0.00749	I	0.348	0.2753		mg/Kg	☼	77	29 - 112	3	30
Naphthalene	0.00778	I	0.348	0.2820		mg/Kg	☼	79	31 - 114	2	30
Phenanthrene	0.0220	V	0.348	0.2892		mg/Kg	☼	77	40 - 116	0	30
Pyrene	0.00167	U	0.348	0.2795		mg/Kg	☼	80	45 - 127	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Fluoranthene-d10	*89*		*25 - 150*
2-methylnaphthalene-d10	*79*		*20 - 150*

QC Association Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: 7-11 No 37926(FL)

TestAmerica Job ID: 660-89088-1

GC/MS VOA

Analysis Batch: 200136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-89088-1	West Wall @ 2'	Total/NA	Solid	8260B	200140
660-89088-2	North Wall @ 2'	Total/NA	Solid	8260B	200140
MB 660-200136/6	Method Blank	Total/NA	Solid	8260B	
LCS 660-200136/4	Lab Control Sample	Total/NA	Solid	8260B	
660-89088-2 MS	North Wall @ 2'	Total/NA	Solid	8260B	200140
660-89088-1 DU	West Wall @ 2'	Total/NA	Solid	8260B	200140

Prep Batch: 200140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-89088-1	West Wall @ 2'	Total/NA	Solid	5035	
660-89088-2	North Wall @ 2'	Total/NA	Solid	5035	
660-89088-2 MS	North Wall @ 2'	Total/NA	Solid	5035	
660-89088-1 DU	West Wall @ 2'	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 200240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-89088-1	West Wall @ 2'	Total/NA	Solid	3546	
660-89088-2	North Wall @ 2'	Total/NA	Solid	3546	
MB 660-200240/1-A	Method Blank	Total/NA	Solid	3546	
LCS 660-200240/2-A	Lab Control Sample	Total/NA	Solid	3546	
660-89088-1 MS	West Wall @ 2'	Total/NA	Solid	3546	
660-89088-1 MSD	West Wall @ 2'	Total/NA	Solid	3546	

Analysis Batch: 200248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-89088-1	West Wall @ 2'	Total/NA	Solid	8270D SIM	200240
660-89088-2	North Wall @ 2'	Total/NA	Solid	8270D SIM	200240
MB 660-200240/1-A	Method Blank	Total/NA	Solid	8270D SIM	200240
LCS 660-200240/2-A	Lab Control Sample	Total/NA	Solid	8270D SIM	200240
660-89088-1 MS	West Wall @ 2'	Total/NA	Solid	8270D SIM	200240
660-89088-1 MSD	West Wall @ 2'	Total/NA	Solid	8270D SIM	200240

General Chemistry

Analysis Batch: 200161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-89088-1	West Wall @ 2'	Total/NA	Solid	Moisture	
660-89088-2	North Wall @ 2'	Total/NA	Solid	Moisture	
660-89088-1 DU	West Wall @ 2'	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Aptim Environmental & Infrastructure Inc
Project/Site: 7-11 No 37926(FL)

TestAmerica Job ID: 660-89088-1

Client Sample ID: West Wall @ 2'
Date Collected: 08/20/18 14:05
Date Received: 08/20/18 17:15

Lab Sample ID: 660-89088-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	200161	08/21/18 05:56	AJG	TAL TAM

Client Sample ID: West Wall @ 2'
Date Collected: 08/20/18 14:05
Date Received: 08/20/18 17:15

Lab Sample ID: 660-89088-1
Matrix: Solid
Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			200140	08/21/18 08:55	ECC	TAL TAM
Total/NA	Analysis	8260B		1	200136	08/21/18 11:37	ECC	TAL TAM
Total/NA	Prep	3546			200240	08/23/18 07:28	BKM	TAL TAM
Total/NA	Analysis	8270D SIM		1	200248	08/23/18 14:18	MDS	TAL TAM

Client Sample ID: North Wall @ 2'
Date Collected: 08/20/18 14:13
Date Received: 08/20/18 17:15

Lab Sample ID: 660-89088-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	200161	08/21/18 06:08	AJG	TAL TAM

Client Sample ID: North Wall @ 2'
Date Collected: 08/20/18 14:13
Date Received: 08/20/18 17:15

Lab Sample ID: 660-89088-2
Matrix: Solid
Percent Solids: 94.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			200140	08/21/18 08:56	ECC	TAL TAM
Total/NA	Analysis	8260B		1	200136	08/21/18 11:56	ECC	TAL TAM
Total/NA	Prep	3546			200240	08/23/18 07:28	BKM	TAL TAM
Total/NA	Analysis	8270D SIM		1	200248	08/23/18 14:39	MDS	TAL TAM

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Method Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: 7-11 No 37926(FL)

TestAmerica Job ID: 660-89088-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL TAM
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL TAM
Moisture	Percent Moisture	EPA	TAL TAM
3546	Microwave Extraction	SW846	TAL TAM
5035	Closed System Purge and Trap	SW846	TAL TAM

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Accreditation/Certification Summary

Client: Aptim Environmental & Infrastructure Inc
TestAmerica Job ID: 660-89088-1
Project/Site: 7-11 No 37926(FL)

Laboratory: TestAmerica Tampa

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Florida	NELAP	4	E84282	06-30-19

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: TestAmerica Nashville

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Florida	NELAP	4	E87358	06-30-19

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Gilbert Haney	Lab PM: Klingensmith, Leah	Carrier Tracking No(s):	COC No: 490-79925-23652.2
Client Contact: ~~Monika Ugrinska~~ Brett Bohenton	Phone: 954-815-6150	E-Mail: leah.klingensmith@testamericainc.com		Page: Page 2 of 3
Company: Aptim Environmental & Infrastructure Inc			530-Orlando	Job #:

Address: ~~5725 NW 159th Street~~ 725 US 301 South	Due Date Requested:	Analysis Requested
City: ~~Miami Lakes~~ Tampa	TAT Requested (days): 1 (24 hrs)	
State, Zip: FL, ~~33014~~ 33619	PO #: Purchase Order Requested	
Phone: 813-612-3609(Tel)	WO #: Project Forum CWO	
Email: ~~monika.ugrinske@aptim.com~~ brett.bohenton@aptim.com	Project #: 49008084	
Project Name: 7-11 No ~~32759(FL)~~ 37926(FL)	SSOW#:	
Site:		

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D_SIM - 8270D SIM PAH List (Water)	6010C - (MOD) Pb (Water)	8260B - Standard 8260 List (Water)	FL_PRO - Petroleum Range Organics (Water)	504.1 - (MOD) EDB only (Water)	8260B - BTEX + MTBE (Short Hold - DI Water - Soil)	8270D PAH (Soil)	FL_PRO (Soil)	6010C - (MOD) As, Cd, Cr, Pb (Soil)	8260B - TCLP Benzene (Soil)	Total Number of containers	Special Instructions/Note:
			Preservation Code:															
West Wall @ 2'	8/20/18	1405	G	Solid								X	X					
North Wall @ 2'	8/20/18	1413	G	Solid								X	X					
				Solid														
				Solid														
				Solid														
				Solid														
				Solid														
				Solid														
				Solid														
				Solid														
				Solid														
				Solid														

660-89088 Chain of Custody

Loc: 660
89088

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Lab Courier

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	8/20/18 1715	APTIM		8/20/18 1715	TA TAMPA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 5.4 / 5.8 CF09

Ver: 08/04/2016

530-Orlando

ATTACHMENT C

Non-Hazardous Waste Disposal Manifests, Landfill Weigh Tickets, and Clean Fill Tickets

Truck # USDOT 2082590 FL # 7971

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone

4. Waste Tracking Number: 1- 1

5. Generator's Name and Mailing Address
7-Eleven # 37926 APTIM
1640 E McCullouch Road
Oveido, Florida 32765

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name
Soil Tech Distributors

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Waste Connections
1501 Omni Way
St Cloud, Florida 34773 407-891-3720

U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt /Vol.	
1.	Non-RCRA/Non-DOT Regulated Material	1	TT	21		T
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

JED-18-013
Contaminated Soil

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Chris Klous, on Behalf of 7-Eleven Inc
Signature: Chris on Behalf of 7-Eleven Inc.
Month: 08 Day: 29 Year: 18

GENERATOR

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

INTL

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: John Kilson
Signature:
Month: 08 Day: 29 Year: 18

Transporter 2 Printed/Typed Name
Signature
Month Day Year

TRANSPORTER

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

DESIGNATED FACILITY

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month Day Year 8 29 18

DESIGNATED FACILITY TO GENERATOR

JED LANDFILL
WASTE CONNECTIONS OF OSCEOLA
1501 OMNI WAY
ST. CLOUD, FL 34773

Weighed: BRANDI

Deposit: CAREN

BILL TO: 3005
APTIM
725 U.S. 301 SOUTH
TAMPA FL 33619
HAULER: CASH

Vehicle ID: 7971-STD
Reference: 18-013
BILL TO:: 7-ELEVEN # 37926

MANIFEST#:: 7971-1-1

PROFILE#:: JED-18-013

Origin: SEMINOLE

DATE IN: 08/29/2018 TIME IN: 11:49:52
DATE OUT: 08/29/2018 TIME OUT: 12:20:37

INBOUND TICKET Number: 01-00005552

SCALE 1 GROSS WT.	74180	LB
SCALE 2 TARE WT.	29880	LB
NET WEIGHT	44300	LB

Qty	Description	Amount
22.150	Contaminated Soil	

X_____

Truck# USDOT 2082590FL #7968

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone

4. Waste Tracking Number 1- 1

5. Generator's Name and Mailing Address
7-Eleven # 37926 APTIM
1640 F McCulloch Road
Oveido, Florida 32765

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name
Soil Tech Distributors

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Waste Connections
1501 Omni Way
St Cloud, Florida 34773 407-891-3720

U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-RCRA/Non-DOT Regulated Material	1	TT	21		T
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

JED-18-013
Contaminated Soil

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Chris Kious, on Behalf of 7-Eleven Inc

Signature: Chris, on Behalf of 7-Eleven Inc

Month: 08 Day: 29 Year: 18

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Brian Tompkins

Signature:

Month: 8 Day: 29 Year: 18

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Loren Sanchez

Signature: Loren Sanchez

Month: 8 Day: 31 Year: 18

DESIGNATED FACILITY TO GENERATOR

JED LANDFILL
WASTE CONNECTIONS OF OSCEOLA
1501 OMNI WAY
ST. CLOUD, FL 34773

Weighed: BRANDI

Deposit: CAREN

BILL TO: 3005
APTIM
725 U.S. 301 SOUTH
TAMPA FL 33619
HAULER: CASH

Vehicle ID: 7968-STD
Reference: 18-013
BILL TO:: 7-ELEVEN # 37926

MANIFEST#:: 7968-1-1

PROFILE#:: JED-18-013

Origin: SEMINOLE

DATE IN: 08/29/2018 TIME IN: 11:53:44
DATE OUT: 08/29/2018 TIME OUT: 12:22:50

INBOUND TICKET Number: 01-00005553

SCALE 1 GROSS WT.	78640	LB
SCALE 2 TARE WT.	30140	LB
NET WEIGHT	48500	LB

Qty	Description	Amount
24.250	Contaminated Soil	

X _____

Truck # USDOT 2082690FL #209

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
				1- 1

GENERATOR

5. Generator's Name and Mailing Address
7-Eleven # 37926 APTM
1640 E McCullouch Road
Oveido, Florida 32765

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: Soil Tech Distributors — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Waste Connections
1501 Omni Way
St Cloud, Florida 34773 407-891-3720

U.S. EPA ID Number:

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-RCRA/Non-DOT Regulated Material	1	TT	21		T
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

JED-18-013
Contaminated Soil

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Chris Kross, on Behalf of 7-Eleven Inc. — Signature: Chris, on Behalf of 7-Eleven Inc. — Month: 08 — Day: 29 — Year: 18

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Steve Schell — Signature: Steve Schell — Month: 8 — Day: 29 — Year: 18

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number:

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Aaron Sachs — Signature: Aaron Sachs — Month: 8 — Day: 29 — Year: 18

DESIGNATED FACILITY TO GENERATOR

JED LANDFILL
WASTE CONNECTIONS OF OSCEOLA
1501 OMNI WAY
ST. CLOUD, FL 34773

Weighed: BRANDI

Deposit: CAREN

BILL TO: 3005
APTIM
725 U.S. 301 SOUTH
TAMPA FL 33619
HAULER: CASH

Vehicle ID: 209-STD
Reference: 18-013
BILL TO:: 7-ELEVEN # 37926

MANIFEST#:: 209-1-1

PROFILE#:: JED-18-013

Origin: SEMINOLE

DATE IN: 08/29/2018 TIME IN: 11:57:12
DATE OUT: 08/29/2018 TIME OUT: 13:01:02

INBOUND TICKET Number: 01-00005554

SCALE 1 GROSS WT.	81960	LB
SCALE 2 TARE WT.	41720	LB
NET WEIGHT	40240	LB

Qty	Description	Amount
20.120	Contaminated Soil	

X Steve Schuss

Truck# USDOT 2682590 FL #7971

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number 1- 1

GENERATOR

5. Generator's Name and Mailing Address
7-Eleven # 37926 APTIM
1640 E McCullouch Road
Oveido, Florida 32765

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: Soil Tech Distributors — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Waste Connections
1501 Omni Way
St Cloud, Florida 34773 407-891-3720

U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-RCRA/Non-DOT Regulated Material	1	TT	21		T
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

JED-18-013
Contaminated Soil

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Chris Kloos, on Behalf of 7-Eleven Inc. — Signature: Chris, on Behalf of 7-Eleven Inc — Month 08 Day 29 Year 18

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: John Kilgore — Signature — Month 08 Day 29 Year 18

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: D Wells — Signature — Month 8 Day 29 Year 18

DESIGNATED FACILITY TO GENERATOR

7971

90420

JED LANDFILL
WASTE CONNECTIONS OF OSCEOLA
1501 OMNI WAY
ST. CLOUD, FL 34773

Weighed: BRANDI

Deposit: BRANDI

BILL TO: 3005
APTIM
725 U.S. 301 SOUTH
TAMPA FL 33619
HAULER: CASH

Vehicle ID: 7971-STD
Reference: 18-013
BILL TO:: 7-ELEVEN # 37926

MANIFEST#:: 7971-1-1

PROFILE#:: JED-18-013

Origin: SEMINOLE

DATE IN: 08/29/2018 TIME IN: 15:32:13
DATE OUT: 08/29/2018 TIME OUT: 15:52:42

INBOUND TICKET Number: 01-00005629

MANUAL GROSS WT.	90420	LB
SCALE 2 TARE WT.	29880	LB
NET WEIGHT	60540	LB

Qty	Description	Amount
30.270	Contaminated Soil	

X _____

Truck# USDOT2082590FL # 7168

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number 1- 1

GENERATOR

5. Generator's Name and Mailing Address
7-Eleven # 37926 APTIM
1640 E McCullouch Road
Oveido, Florida 32765
Generator's Phone:

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Soil Tech Distributors — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Waste Connections
1501 Omni Way
St Cloud, Florida 34773 407-891-3720
Facility's Phone:
U.S. EPA ID Number

7968

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-RCRA/Non-DOT Regulated Material	1	TT	21		T
2.						
3.						
4.						

7182D

13. Special Handling Instructions and Additional Information

JED-18-013
Contaminated Soil

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Chris Kraus, on Behalf of 7-Eleven Inc — Signature: Chris, on Behalf of 7-Eleven Inc — Month 05 Day 29 Year 18

INTL

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Brian Templeton — Signature — Month 05 Day 29 Year 18

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: B Wells — Signature: B Wells — Month 5 Day 29 Year 18

DESIGNATED FACILITY TO GENERATOR

JED LANDFILL
WASTE CONNECTIONS OF OSCEOLA
1501 OMNI WAY
ST. CLOUD, FL 34773

Weighed: BRANDI

Deposit: BRANDI

BILL TO: 3005
APTIM
725 U.S. 301 SOUTH
TAMPA FL 33619
HAULER: CASH

Vehicle ID: 7968-STD
Reference: 18-013
BILL TO:: 7-ELEVEN # 37926

MANIFEST#:: 7968-1-1

PROFILE#:: JED-18-013

Origin: SEMINOLE

DATE IN: 08/29/2018 TIME IN: 15:40:52
DATE OUT: 08/29/2018 TIME OUT: 16:48:10

INBOUND TICKET Number: 01-00005633

SCALE 1 GROSS WT.	71800	LB
SCALE 2 TARE WT.	30100	LB
NET WEIGHT	41700	LB

Qty	Description	Amount
20.850	Contaminated Soil	

X _____

Truck # WDOT208290FL# 209

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
				1 - 1

GENERATOR

5. Generator's Name and Mailing Address
7-Eleven # 37926 APTIM
1640 E McCullouch Road
Oveido, Florida 32765
Generator's Phone:

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Soil Tech Distributors — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Waste Connections
1501 Omni Way
St Cloud, Florida 34773 407-891-3720
Facility's Phone: — U.S. EPA ID Number:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-RCRA/Non-DOT Regulated Material	1	TT	21		T
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
JED-18-013
Contaminated Soil

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Offeror's Printed/Typed Name: Chris Kraus, on Behalf of 7-Eleven Inc. — Signature: Chris, on Behalf of 7-Eleven Inc — Month 08 Day 29 Year 18

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Steve Schutt — Signature: Steve Schutt — Month 8 Day 29 Year 18
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: D Wells — Signature: D Wells — Month 8 Day 29 Year 18

DESIGNATED FACILITY TO GENERATOR

JED LANDFILL
WASTE CONNECTIONS OF OSCEOLA
1501 OMNI WAY
ST. CLOUD, FL 34773

Weighed: BRANDI

Deposit: BRANDI

BILL TO: 3005
APTIM
725 U.S. 301 SOUTH
TAMPA FL 33619
HAULER: CASH

Vehicle ID: 209-STD
Reference: 18-013
BILL TO:: 7-ELEVEN # 37926

MANIFEST#:: 209-1-1

PROFILE#:: JED-18-013

Origin: SEMINOLE

DATE IN: 08/29/2018 TIME IN: 16:01:42
DATE OUT: 08/29/2018 TIME OUT: 16:57:48

INBOUND TICKET Number: 01-00005638

SCALE 1 GROSS WT.	78840	LB
SCALE 2 TARE WT.	29700	LB
NET WEIGHT	49140	LB

Qty	Description	Amount
24.570	Contaminated Soil	

X _____

Mid Coast Aggregates, LLC

7000 S.R. 50
Webster, FL 33597
(352)569-0422

Ticket No.: **684982**

NON-FDOT

Date : 8/22/2018 Time: 10:48:12AM
Location : **Pit #18-634**
Customer : WILP Wilson's Petroleum Equipment, Inc.
Order : 19955 7-11 #37926 Oviedo
P.O. : 17280
Product : 17N #89 Stone **28.11** Ton

	Pounds	Tons	Metric
Gross	87020	43.51	39.47
Tare	30800 *	15.40 *	13.97 *
Net	56220	28.11	25.50

* Manual Predetermined Tare

Ordered	0.00	
Received	28.11	
Remaining	-28.11	
		5.62
Today:	28.11	Loads: 1

Carrier : CEFT Central Florida Transport
Vehicle : 1481 88000 12.12.18
Received :

Weighmaster: Wendy C

COPY 1 CUSTOMER

Mid Coast Aggregates, LLC

7000 S.R. 50
Webster, FL 33597
(352)569-0422

Ticket No.: **684982**

NON-FDOT

Date : 8/22/2018 Time: 10:48:12AM
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	Pounds	Tons	Metric
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Tare	30800 *	15.40 *	13.97 *
Net	56220	28.11	25.50

* Manual Predetermined Tare

Ordered	0.00	
Received	28.11	
Remaining	-28.11	
		5.62
Today:	28.11	Loads: 1

Carrier : CEFT Central Florida Transport
Vehicle : 1481 88000 12.12.18
Received :

Weighmaster: Wendy C

COPY 2 CARRIER

Mid Coast Aggregates, LLC

7000 S.R. 50
Webster, FL 33597
(352)569-0422

Ticket No.: **684982**

NON-FDOT

Date : 8/22/2018 Time: 10:48:12AM
Location : **Pit #18-634**
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Order : 19955 7-11 #37926 Oviedo
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Net	56220	28.11	25.50

* Manual Predetermined Tare

Ordered	0.00	
Received	28.11	
Remaining	-28.11	
		5.62
Today:	28.11	Loads: 1

Carrier : CEFT Central Florida Transport
Vehicle : 1481 88000 12.12.18
Received :

Weighmaster: Wendy C

COPY 3 FILE

Mid Coast Aggregates, LLC

7000 S.R. 50
Webster, FL 33597
(352)569-0422

Ticket No.: **684983**

NON-FDOT

Date : 8/22/2018 Time: 10:51:57AM
Location : **Pit #18-634**
Customer : WILP Wilson's Petroleum Equipment, Inc.
Order : 19955 7-11 #37926 Oviedo
P.O. : 17280
Product : 17N #89 Stone **28.34** Ton

	Pounds	Tons	Metric
Gross	87080	43.54	39.50
Tare	30400 *	15.20 *	13.79 *
Net	56680	28.34	25.71

* Manual Predetermined Tare

Ordered	0.00	
Received	56.45	
Remaining	-56.45	
		5.67
Today:	56.45	Loads: 2

Carrier : CEFT Central Florida Transport
Vehicle : 1504 88000 12.12.18
Received :

Weighmaster: Wendy C

COPY 1 CUSTOMER

Mid Coast Aggregates, LLC

7000 S.R. 50
Webster, FL 33597
(352)569-0422

Ticket No.: **684983**

NON-FDOT

Date : 8/22/2018 Time: 10:51:57AM
Location : **Pit #18-634**
Customer : WILP Wilson's Petroleum Equipment, Inc.
Order : 19955 7-11 #37926 Oviedo
P.O. : 17280
Product : 17N #89 Stone **28.34** Ton

	Pounds	Tons	Metric
Gross	87080	43.54	39.50
Tare	30400 *	15.20 *	13.79 *
Net	56680	28.34	25.71

* Manual Predetermined Tare

Ordered	0.00	
Received	56.45	
Remaining	-56.45	
		5.67
Today:	56.45	Loads: 2

Carrier : CEFT Central Florida Transport
Vehicle : 1504 88000 12.12.18
Received :

Weighmaster: Wendy C

COPY 2 CARRIER

Mid Coast Aggregates, LLC

7000 S.R. 50
Webster, FL 33597
(352)569-0422

Ticket No.: **684983**

NON-FDOT

Date : 8/22/2018 Time: 10:51:57AM
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Order : 19955 7-11 #37926 Oviedo
P.O. : 17280
Product : 17N #89 Stone **28.34** Ton

	Pounds	Tons	Metric
Gross	87080	43.54	39.50
Tare	30400 *	15.20 *	13.79 *
Net	56680	28.34	25.71

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		5.67
Today:	56.45	Loads: 2

Carrier : CEFT Central Florida Transport
Vehicle : 1504 88000 12.12.18
Received :

Weighmaster: Wendy C

COPY 3 FILE

Mid Coast Aggregates, LLC

7000 S.R. 50
Webster, FL 33597
(352)569-0422

Ticket No.: **685188**

NON-FDOT

Date : 8/24/2018 Time: 5:31:34AM

Location : **Pit #18-634**
Customer : WILP Wilson's Petroleum Equipment, Inc.
Order : 19955 7-11 #37926 Oviedo
P.O. : 17280
Product : 17N #89 Stone **28.15** Ton

	Pounds	Tons	Metric
Gross	86700	43.35	39.33
Tare	30400 *	15.20 *	13.79 *
Net	56300	28.15	25.54

* Manual Predetermined Tare

Ordered	0.00	
Received	84.60	
Remaining	-84.60	
		5.63
Today:	28.15	Loads: 1

Carrier : CEFT Central Florida Transport
Vehicle : 1504 88000 12.12.18

Received :

Weighmaster: Wendy C

COPY 1 CUSTOMER

Mid Coast Aggregates, LLC

7000 S.R. 50
Webster, FL 33597
(352)569-0422

Ticket No.: **685188**

NON-FDOT

Date : 8/24/2018 Time: 5:31:34AM

Location : **Pit #18-634**
Customer : WILP Wilson's Petroleum Equipment, Inc.
Order : 19955 7-11 #37926 Oviedo
P.O. : 17280
Product : 17N #89 Stone **28.15** Ton

	Pounds	Tons	Metric
Gross	86700	43.35	39.33
Tare	30400 *	15.20 *	13.79 *
Net	56300	28.15	25.54

* Manual Predetermined Tare

Ordered	0.00	
Received	84.60	
Remaining	-84.60	
		5.63
Today:	28.15	Loads: 1

Carrier : CEFT Central Florida Transport
Vehicle : 1504 88000 12.12.18

Received :

Weighmaster: Wendy C

COPY 2 CARRIER

Mid Coast Aggregates, LLC

7000 S.R. 50
Webster, FL 33597
(352)569-0422

Ticket No.: **685188**

NON-FDOT

Date : 8/24/2018 Time: 5:31:34AM

Location : **Pit #18-634**
Customer : WILP Wilson's Petroleum Equipment, Inc.
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P.O. : 17280
Product : 17N #89 Stone **28.15** Ton

	Pounds	Tons	Metric
Gross	86700	43.35	39.33
Tare	30400 *	15.20 *	13.79 *
Net	56300	28.15	25.54

* Manual Predetermined Tare

Ordered	0.00	
Received	84.60	
Remaining	-84.60	
		5.63
Today:	28.15	Loads: 1

Carrier : CEFT Central Florida Transport
Vehicle : 1504 88000 12.12.18

Received :

Weighmaster: Wendy C

COPY 3 FILE

Mid Coast Aggregates, LLC

7000 S.R. 50
Webster, FL 33597
(352)569-0422

Ticket No.: **685189**

NON-FDOT

Date : 8/24/2018 Time: 5:32:34AM

Location : **Pit #18-634**
Customer : WILP Wilson's Petroleum Equipment, Inc.
Order : 19955 7-11 #37926 Oviedo
P.O. : 17280
Product : 17N #89 Stone **28.22** Ton

	Pounds	Tons	Metric
Gross	87240	43.62	39.57
Tare	30800 *	15.40 *	13.97 *
Net	56440	28.22	25.60

* Manual Predetermined Tare

Ordered	0.00	
Received	112.82	
Remaining	-112.82	
		5.64
Today:	56.37	Loads: 2

Carrier : CEFT Central Florida Transport
Vehicle : 1481 88000 12.12.18
Received :

Weighmaster: Wendy C

COPY 1 CUSTOMER

Mid Coast Aggregates, LLC

7000 S.R. 50
Webster, FL 33597
(352)569-0422

Ticket No.: **685189**

NON-FDOT

Date : 8/24/2018 Time: 5:32:34AM

Location : **Pit #18-634**
Customer : WILP Wilson's Petroleum Equipment, Inc.
Order : 19955 7-11 #37926 Oviedo
P.O. : 17280
Product : 17N #89 Stone **28.22** Ton

	Pounds	Tons	Metric
Gross	87240	43.62	39.57
Tare	30800 *	15.40 *	13.97 *
Net	56440	28.22	25.60

* Manual Predetermined Tare

Ordered	0.00	
Received	112.82	
Remaining	-112.82	
		5.64
Today:	56.37	Loads: 2

Carrier : CEFT Central Florida Transport
Vehicle : 1481 88000 12.12.18
Received :

Weighmaster: Wendy C

COPY 2 CARRIER

Mid Coast Aggregates, LLC

7000 S.R. 50
Webster, FL 33597
(352)569-0422

Ticket No.: **685189**

NON-FDOT

Date : 8/24/2018 Time: 5:32:34AM

Location : **Pit #18-634**
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Product : 17N #89 Stone **28.22** Ton

	Pounds	Tons	Metric
Gross	87240	43.62	39.57
Tare	30800 *	15.40 *	13.97 *
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* Manual Predetermined Tare

Ordered	0.00	
Received	112.82	
Remaining	-112.82	
		5.64
Today:	56.37	Loads: 2

Carrier : CEFT Central Florida Transport
Vehicle : 1481 88000 12.12.18
Received :

Weighmaster: Wendy C

COPY 3 FILE

ORANGE /SEMINOLE FIRE RESCUE STATION # 65

Regulatory Documents

03280#65

DEP Form # 62-761.900(2)
Form Title Storage Tank Registration Form
Effective Date: July 13, 1998
DEP Application No. _____ (Filled in by DEP)

DEPARTMENT OF ENVIRONMENTAL PROTECTION FLORIDA

Florida Department of Environmental Protection
Twin Towers Office Bldg. ● 2600 Blair Stone Road ● Tallahassee, Florida 32399-2400

Storage Tank Facility Registration Form

DATA ENTERED APR 06 00 BY AS

Submit a completed form for the facility when registration of storage tanks or compression vessels is required by Chapter 376.303, Florida Statutes

Please review *Registration Instructions* before completing the form.

Please check all that apply	[X] New Registration	[ ] New Owner	[X] New Tanks
	[ ] Facility Info Update/Correction	[ ] Owner Info Update/Correction	[X] Tank Info Update/Correction

A. FACILITY INFORMATION

County: Orange	DEP Facility ID:	APPLIED FOR

9802715

Facility Name: Orange County Fire & Rescue Station #65
Facility Address: 4999 North Orion Boulevard City: Orlando Zip: 32817
Facility Contact: Daryl McCarthy, Maintenance/Construction Coordinator Business Phone: (407) 836-9018
Facility Type(s): 4I-County Government NAICS Code: _____ Financial Responsibility: D-Self Insured

24 Hour Emergency Contact: Daryl McCarthy, Maintenance/Construction Coordinator Emergency Phone: (407) 836-9018

B. RESPONSIBLE PERSON INFORMATION - Identify Individual(s) or Business (es) responsible for storage tank management, fueling operations, and/or cleanup activities at the facility location named above. **Provide additional information in an attachment if necessary.**

Name: Orange County Fire & Rescue Division	Facility - Responsible Person Relation Type:	Effective Date
Mail address: 6590 Amory Court	[√] Facility Account Owner (pays fees)	3/1/99
City, ST, Zip: Winter Park, Florida 32792-7497	Facility Account Owner information must be provided when the	
Contact: Daryl McCarthy, Maintenance/Construction Coordinator	Facility contains active (in-use) storage tanks on site.	
Telephone: 407-836-9018 (cell – 407-222-6567)	STCM Account Number (if known)	
Identify other appropriate facility relationships for this party: [ ] Facility Owner/Operator [ ] Property Owner [X] Storage Tank Owner		

Name: Orange County Risk Management	Other owner, relationship type(s)	Effective Date
Mail address: 1 North Orange Avenue, 7th Floor	[ ] Facility Owner/Operator	
City, ST, Zip: Orlando, Florida 32802-1393	[ ] Property Owner	
Contact: Mark A. Naughton, Environmental Safety Specialist	[ ] Storage Tank Owner	
Telephone: 407-836-8358 (pager – 407-651-7763)	[X] Other:	3/1/99

C. TANK/VESSEL INFORMATION - Complete one row for each storage tank or compression vessel system located at this facility.

Tank ID	T/V	A/U	Capacity	Installed	Content	Status/Effective Date		Construction	Piping	Monitoring
1	T	A	500	10/99	G	U	11/1/99	C, M, I	N	F, M

Certified Contractor (performing tank installation or removal): George Smith of Warton-Smith DBPR License No.: PC-C048385

Registration Certification: **To the best of my knowledge and belief, all information submitted on this form is true, accurate, and complete.**

Mark A. Naughton, Environmental Safety Specialist — Printed Name & Title
Signature
January 4, 2000 — Date

DEP 62-761.900(2)

Northwest District	Northeast District	Central District	Southwest District	Southeast District	South District	Marathon Branch Office
160 Governmental Center Blvd.	7825 Baymeadows Way, Suite B200	3319 Maguire Blvd., Suite 232	3804 Coconut Palm Drive	400 North Congress Ave.,	2295 Victoria Ave., Suite 364	2796 Overseas Hwy., Suite 221
Pensacola, FL 32501	Jacksonville, FL 32256	Orlando, FL 32803	Tampa, FL 33619	W Palm Beach, FL 33416	Fort Myers, FL 33901	Marathon, FL 33050
850-595-8360	904-448-4300	407-894-7555	813-744-6100	561-681-6600	941-332-6975	305-289-2310

01/03/2000 16:26 SAFETY & RISK → RISK MGMT NO.442 002

5TH 65

CERTIFICATE

OF

TESTING

REGULATION

This Certifies that

the 500 Gallon ConVault AST

Serial Number M734478

Successfully Completed

a 24 hour Pressure Test by Bambacigno Steel

and Additional Testing by ConVault Florida, Inc.

on the 22nd day of FEB, A.D., 1999.

James M Remington

James M. Remington

Dan T. Rockefeller

Dan T. Rockefeller

Florida Department of Environmental Protection
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DEP Form # 62-761.900(2)
Form Title Storage Tank Registration Form
Effective Date July 13, 1998
DEP Application No. (Filled in by DEP) DATA ENTERED

Storage Tank Facility Registration Form

Submit a completed form for the facility when registration of storage tanks or compression vessels is required by Chapter 376.303, Florida Statutes. SEP 07 2007

Please review *Registration Instructions* before completing the form. By: KMP

Please check all that apply	[ ] New Registration	[ ] New Owner	[ ] New Tanks
	[X] Facility Info Update/Correction	[X] Owner Info Update/Correction	[X] Tank Info Update/Correction

A. FACILITY INFORMATION

County: 48-ORANGE | DEP Facility ID: 9802715

Facility Name: Orange County Fire Station #65
Facility Address: 4999 N. Orion Blvd. City: Orlando Zip: 32826
Facility Contact: Daryl McCarthy Business Phone: (407) 836-9018
Facility Type(s): I NAICS Code: 922160 Financial Responsibility: Insurance Carrier

24 Hour Emergency Contact: Fire Station Head quarters Emergency Phone: (407) 836-9000

B. RESPONSIBLE PERSON INFORMATION - Identify Individual(s) or Business(es) responsible for storage tank management, fueling operations, and/or cleanup activities at the facility location named above. **Provide additional information in an attachment if necessary.**

Name: Orange County Fire Rescue HQ	Facility - Responsible Person Relation Type:	Effective Date
Mail address: 6590 Amory Ct.	[√] **Facility Account Owner (pays fees)**	8/27/07
City, ST, Zip: Winter Park, FL 32792	Facility Account Owner information must be provided when the facility contains active or out of service storage tanks on site.	
Contact: Daryl McCarthy		
Telephone: (407) 836-9018	**STCM Account Number (if known)**	
Identify other appropriate facility relationships for this party: [X] Facility Owner/Operator [ ] Property Owner [ ] Storage Tank Owner		

Name: Orange County Risk Management	Other owner, relationship type(s)	Effective Date
Mail address: 109 E. Church St Ste 200	[ ] Facility Owner/Operator	
City, ST, Zip: Orlando, FL 32801	[ ] Property Owner	
Contact: Sherri Randle	[ ] Storage Tank Owner	
Telephone: (407) 836-9679	[X] Other:	8/27/07

C. TANK/VESSEL INFORMATION - Complete one row for each storage tank or compression vessel system located at this facility.

Tank ID	T/V	A/U	Capacity	Installed	Content	Status/Effective Date		Construction	Piping	Monitoring
1	T	A	500	10/1/99	DG	U	8/27/07	CMI	N	FQ

Certified Contractor (peforming tank installation or removal): _____ DBPR License No.: _____

Registration Certification: **To the best of my knowledge and belief, all information submitted on this form is true, accurate, and complete.**

Sherri Randle, Environmental Analyst — **Printed Name & Title**
Sherrille — **Signature**
8/27/07 — **Date**

Northwest District, 160 Governmental Center Blvd., Pensacola, FL 32501, 850-595-8360
Northeast District, 7825 Baymeadows Way, Suite B200, Jacksonville, FL 32256, 904-448-4300
Central District, 3319 Maguire Blvd., Suite 232, Orlando, FL 32803, 407-894-7555
Southwest District, 3804 Coconut Palm Drive, Tampa, FL 33619, 813-744-6100
Southeast District, 400 North Congress Ave., W Palm Beach, FL 33416, 561-681-6600
South District, 2295 Victoria Ave., Suite 364, Fort Myers, FL 33901, 941-332-6975
Marathon Branch Office, 2796 Overseas Hwy., Suite 221, Marathon, FL 33050, 305-289-2310

11. 48/8520439 – Contact name and phone number was changed. Tank #7 status changed from In Service to Removed from Site.
12. 48/8520436 – Contact phone number was changed. Construction code I was added to tank #3. Monitoring codes G and L were deleted from tanks #4 and #5.
13. 48/9045781 – Facility zip code was changed. Contact phone number was changed. Construction code K was changed to R for tank #3. Monitoring codes L and 3 were deleted from tanks #1 and #2.
14. 48/9802457 – Contact name and phone number was added. Construction code R was added to tank #1.
15. 48/9802313 – Contact phone number was changed. Tank #1 size was changed. Monitoring code M was deleted and code Q was added to tank #1. Monitoring code 1 was deleted and code Q was added to tank #2.
16. 48/9802715 – Facility address was corrected. Content code D was added to tank #1. Monitoring code M was deleted and code Q was added to tank #1.
17. 48/9802249 – Contact phone number was changed. Tank #1 size was changed. Monitoring code M was deleted and code Q was added to tank #1. Monitoring code 1 was deleted and code Q was added to tank #2.
18. 48/8520430 – Contact phone number was changed. Construction code I was added to tank #3. Monitoring codes G and L were deleted and code M was added to tanks #4 and #5.
19. 48/9401105 – Contact phone number was changed. Content code H was deleted and codes D and G were added to tank #1. Monitoring codes L and 3 were deleted and code M was added to tank #1.
20. 48/8520434 – Facility name was changed. Construction code M was added to tank #3. Piping codes B and I were added to tank #3. Monitoring code M was deleted from tank #3.
21. 48/9100721 – Contact phone number was changed. Monitoring code L was deleted from tank #2.
22. 48/8942932 – Contact phone number was changed. Content code G was added to tank #1. Monitoring code L was deleted from tanks #1 and #2. Construction code I was added to tank #3.
23. 48/9401467 – Contact phone number was changed. Monitoring codes L and G were deleted from tank #1. Monitoring code L was deleted from tank #2. Content code D was added to tank #2.

Please feel free to call me if you have any questions or need more information.

Thank you,

Sherri Randle

(407) 836-9679
Sherri.Randle@ocfl.net

Wallace, Kathleen

From: Sherri.Randle@ocfl.net
Sent: Tuesday, August 28, 2007 11:21 AM
To: Wallace, Kathleen
Cc: Tisha.Pence@ocfl.net; Joe.Donovan@ocfl.net; Daryl.McCarthy@ocfl.net; Randy.Schweikart@ocfl.net
Subject: Updated Tank Registrations
Attachments: Tank Reg 082807.pdf

Kathy,

Please see the attached Tank Registration Forms. We have updated monitoring codes, content codes for tanks with dual purpose (generator and vehicle fuel) and some other miscellaneous information.

Sherri D. Randle

Environmental Loss Prevention Analyst

Orange County Risk Management

office: (407) 836-9679

fax: (407) 836-9630

sherri.randle@ocfl.net

<<Tank Reg 082807.pdf>>

Orange County Risk Management
109 E. Church St., Suite 200
Orlando, FL 32802
(407) 836-9640

Tank Registration Updates
August 28, 2007

To: Kathleen Wallace
Twin Towers Office Building
2600 Blair Stone Rd.
Tallahassee, FL 32399-2400
Kathleen.Wallace@dep.state.fl.us

The enclosed Storage Tank Facility Registration Forms (23 forms) have been filled out to ensure that FDEP has up-to-date information on Orange County Facilities. Recently, Orange County Risk Management did a storage tank inventory for our Fire and Rescue Department. On every form, Orange County Risk Management was added as an additional responsible party and electronic/automatic monitoring codes were deleted. The following list describes what specific updates were made on each form. Please feel free to call me if you have any questions or need more information.

ID Number – Update Info

1. 48/8520443 – Construction code K was changed to R for tank #5. Monitoring code 1 was deleted from tank #7.
2. 48/9100786 – Monitoring codes L and 1 were deleted for tanks #1 and #2. Content code G was added for tank #2.
3. 48/8520442 – Contact name and phone number were added to facility information. Monitoring code Q was added for tank #6. Content code D was added to tank #6.
4. 48/9804286 – Contact phone number was changed.
5. 48/8945069 – Contact phone number was changed. Monitoring code L was deleted and F was added for tank #2.
6. 48/8945070 – Contact name and phone number were changed. Construction code I was added to tank #3. Monitoring code G was deleted and codes Q and F were added to tank #3. Monitoring code Q was added to tank #4.
7. 48/9102037 – Contact phone number was changed. Monitoring code L was deleted from tanks #1 and #2.
8. 48/8520441 – Contact phone number was changed. Construction code I was added to tank #3. Monitoring code G was deleted from tank #3. Monitoring codes G and L were deleted from tanks #4 and #5.
9. 48/9804287 – Contact phone number was changed.
10. 48/8520438 – Contact phone number was changed.

APPENDIX J

Physical Setting Report

PSR
PHYSICAL SETTING REPORT

Property Information

Order Number:		22012500722p
Date Completed:		January 26, 2022
Project Number:		PR.GEO-RD21007
Project Property:		McCulloch Road Roadway Conceptual Analysis (RCA) McCulloch Road Oviedo FL
Coordinates:		
	Latitude:	28.61202323
	Longitude:	-81.18324115
	UTM Northing:	3165016.07014 Meters
	UTM Easting:	482086.069131 Meters
	UTM Zone:	UTM Zone 17R
	Elevation:	54.00 ft
	Slope Direction:	E

Topographic Information....2
Hydrologic Information....12
Geologic Information....21
Soil Information....25
Wells and Additional Sources....43
Summary....48
Detail Report....52
Radon Information....96
Appendix....97
Liability Notice....100

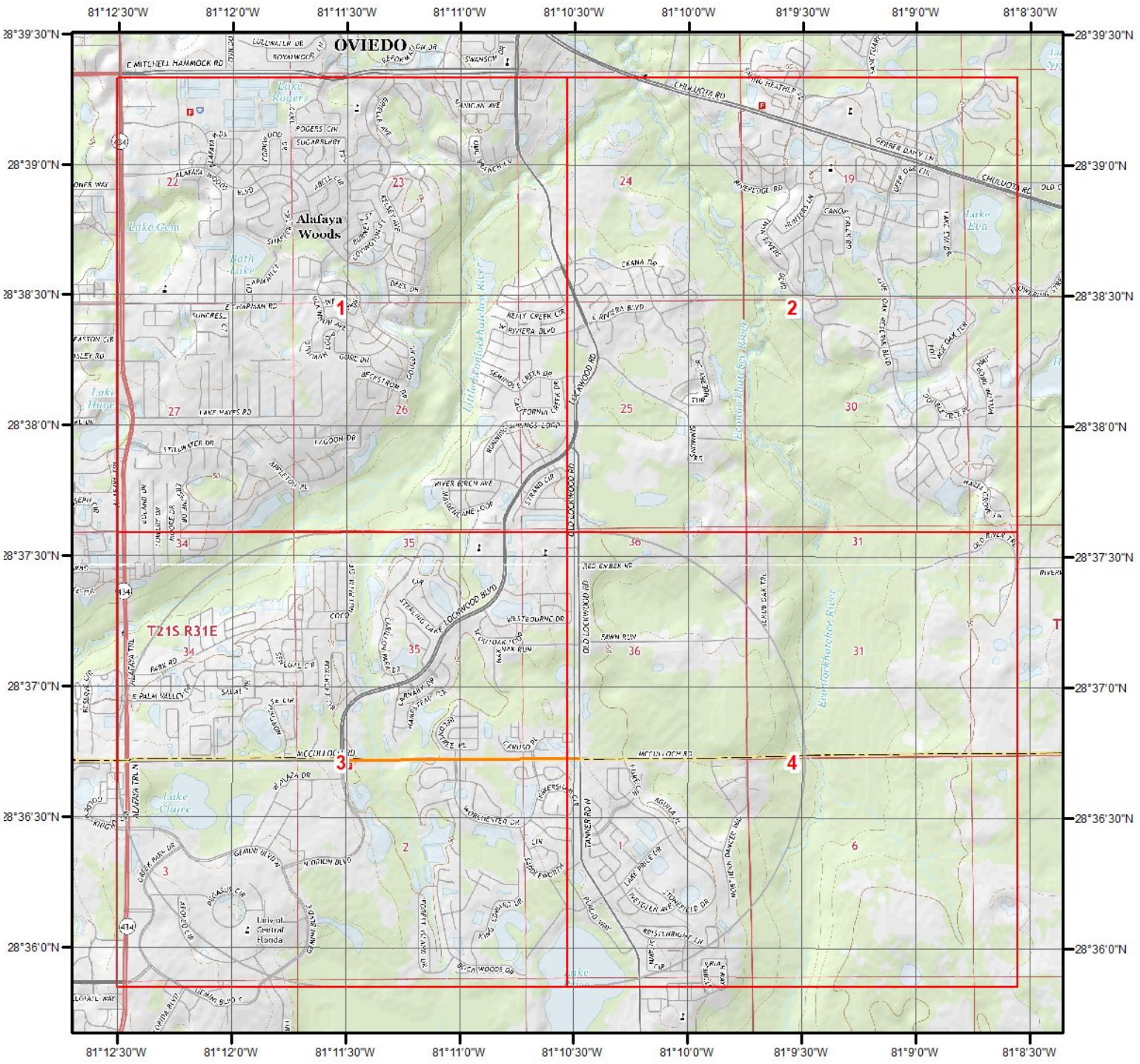
The ERIS ***Physical Setting Report - PSR*** provides comprehensive information about the physical setting around a site and includes a complete overview of topography and surface topology, in addition to hydrologic, geologic and soil characteristics. The location and detailed attributes of oil and gas wells, water wells, public water systems and radon are also included for review.

The compilation of both physical characteristics of a site and additional attribute data is useful in assessing the impact of migration of contaminants and subsequent impact on soils and groundwater.

Disclaimer

This Report does not provide a full environmental evaluation for the site or adjacent properties. Please see the terms and disclaimer at the end of the Report for greater detail.

Topographic Information



Current USGS Topo (2015)

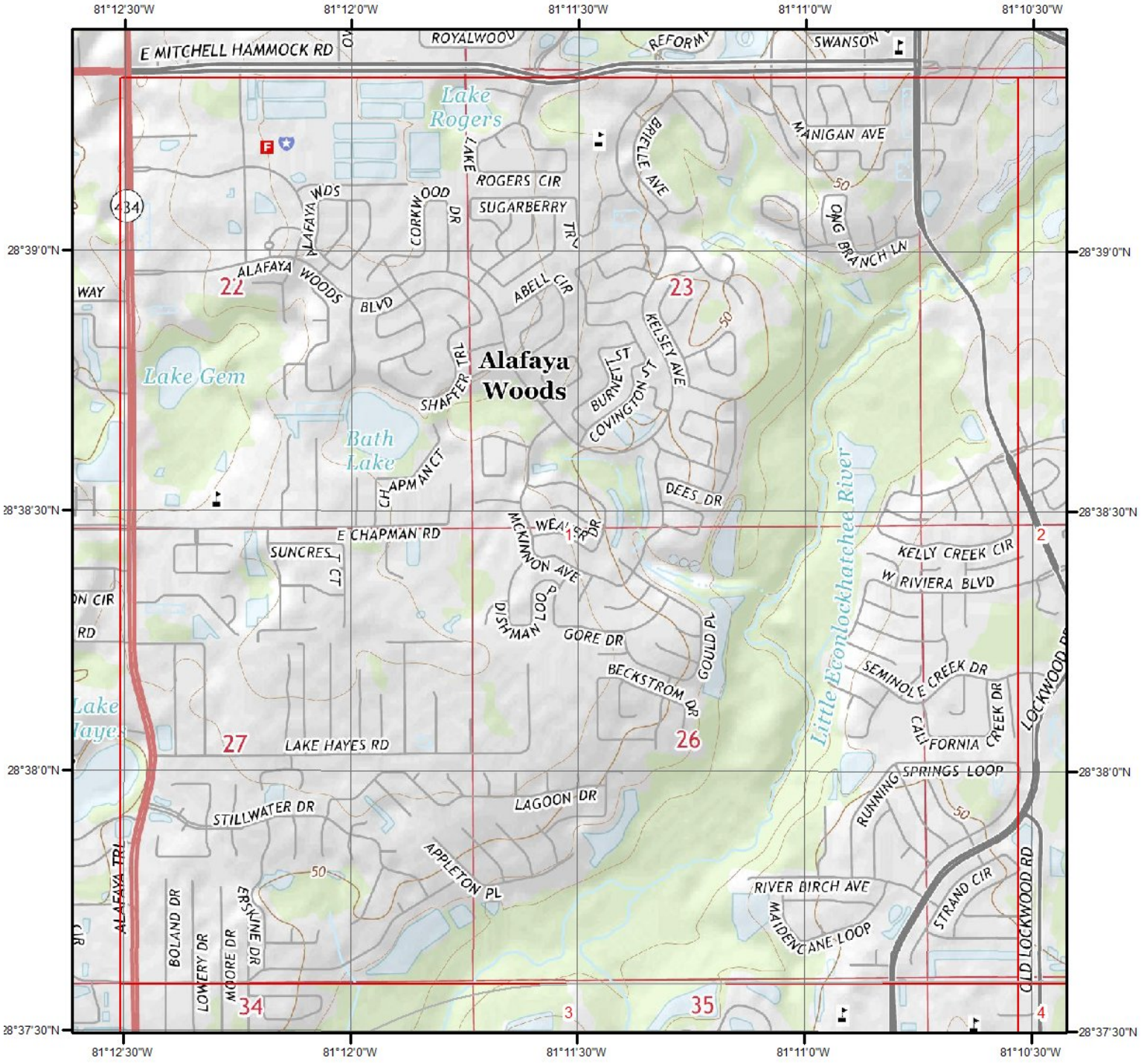
0 0.2 0.4 0.8 1.2 1.6 Miles

N

Quadrangle(s): Bithlo,FL; Casselberry,FL; Geneva,FL; Orlando East,FL; Oviedo,FL; Oviedo SW,FL

Source: USGS 7.5 Minute Topographic Map

Topographic Information

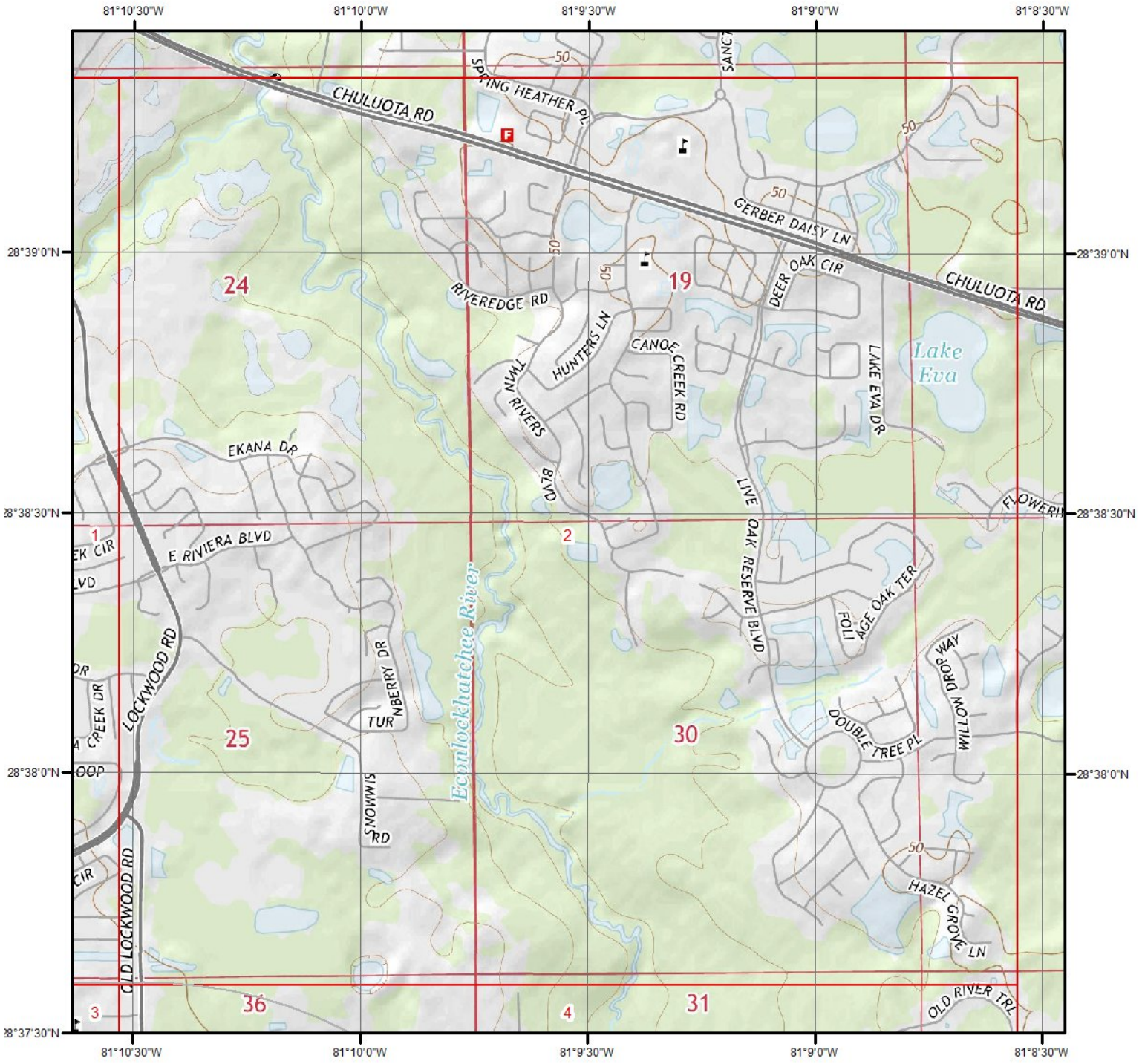


Current USGS Topo - Page 1

Quadrangle(s): Oviedo,FL

Source: USGS 7.5 Minute Topographic Map

Topographic Information



Current USGS Topo - Page 2

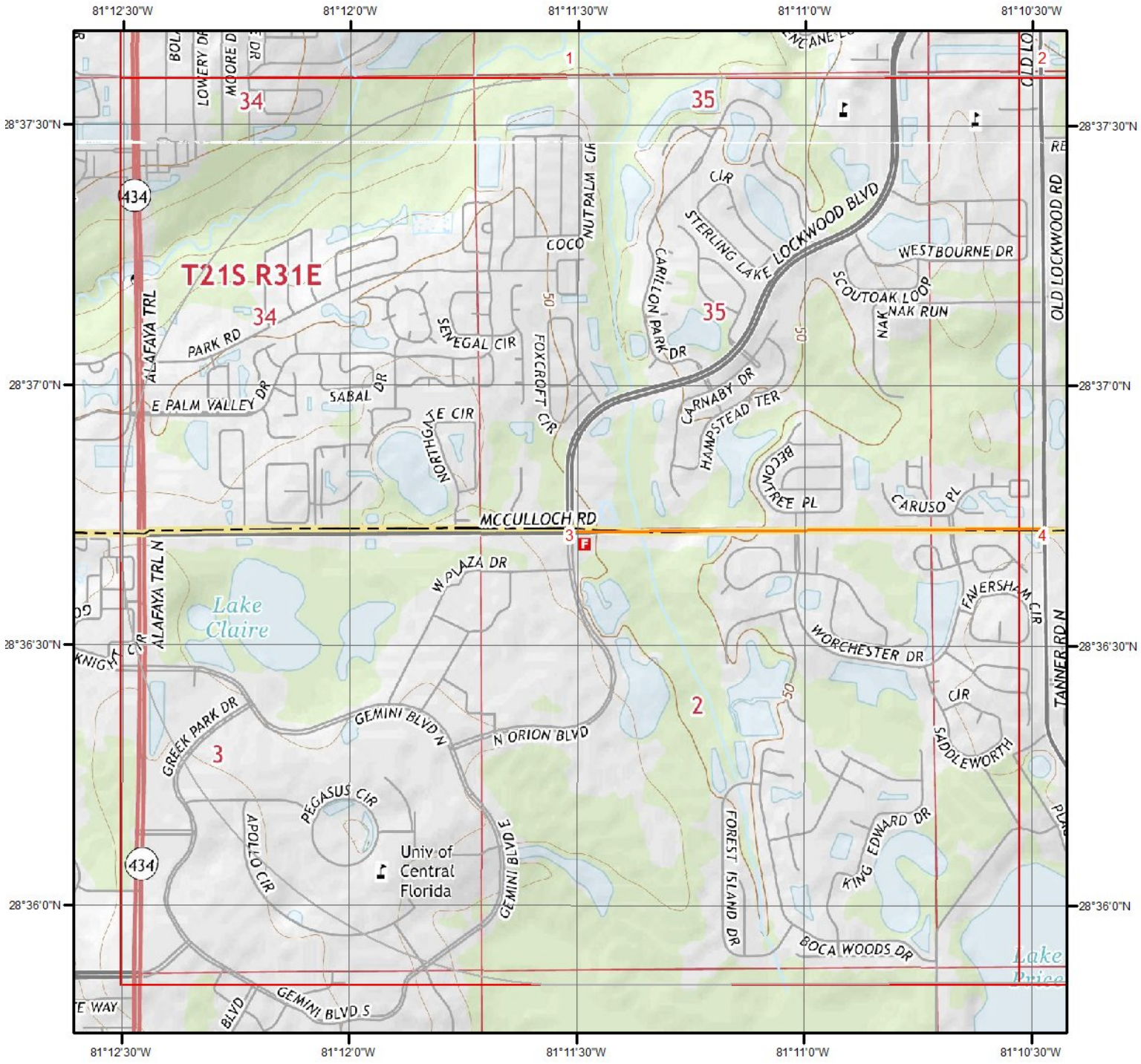
0 0.2 0.4 0.8 Miles

N

Quadrangle(s): Oviedo,FL

Source: USGS 7.5 Minute Topographic Map

Topographic Information



Current USGS Topo - Page 3

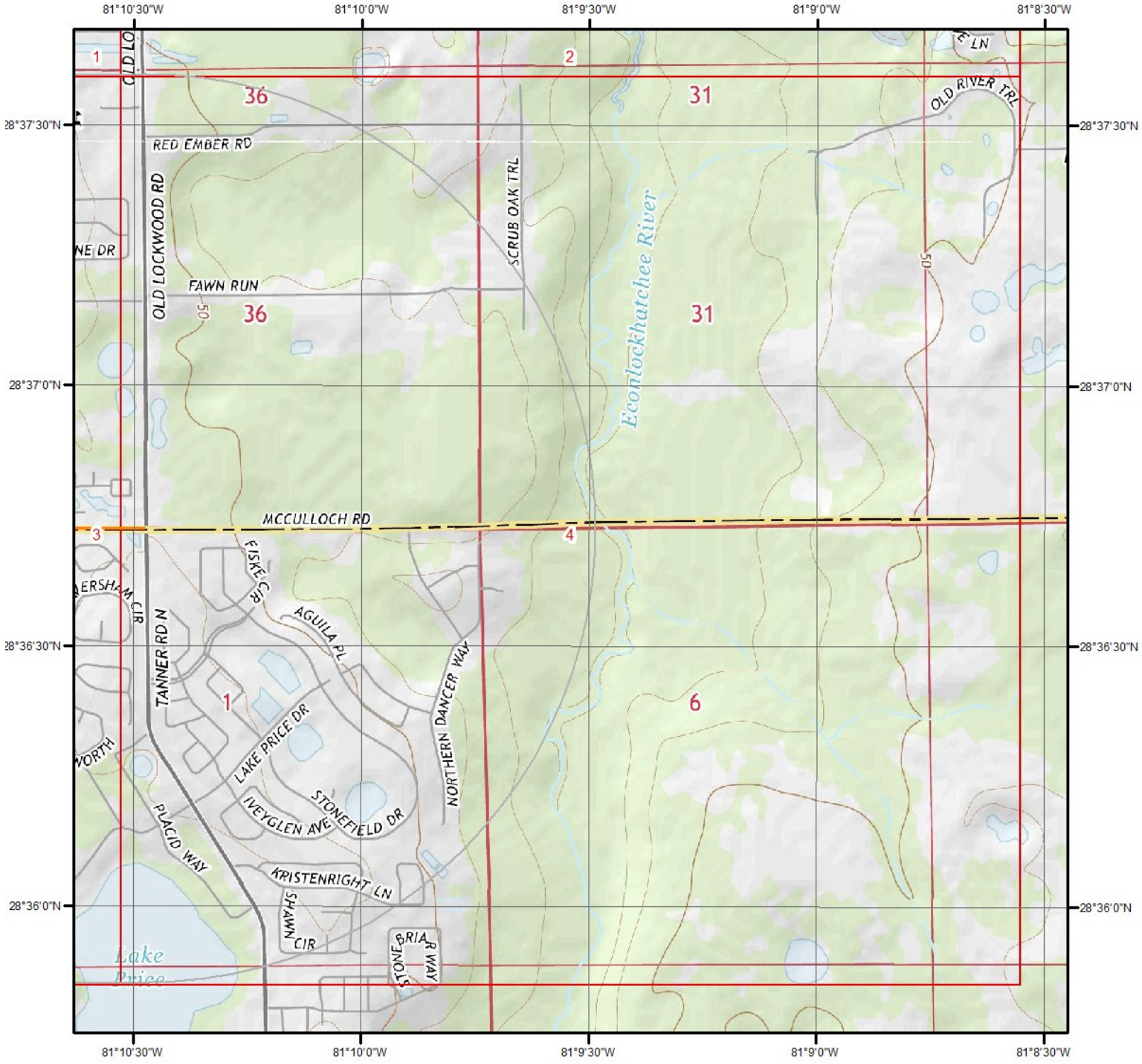
0 0.2 0.4 0.8 Miles

N

Quadrangle(s): Oviedo,FL; Oviedo SW,FL

Source: USGS 7.5 Minute Topographic Map

Topographic Information



Current USGS Topo - Page 4

0 0.2 0.4 0.8 Miles

N

Quadrangle(s): Oviedo,FL; Oviedo SW,FL

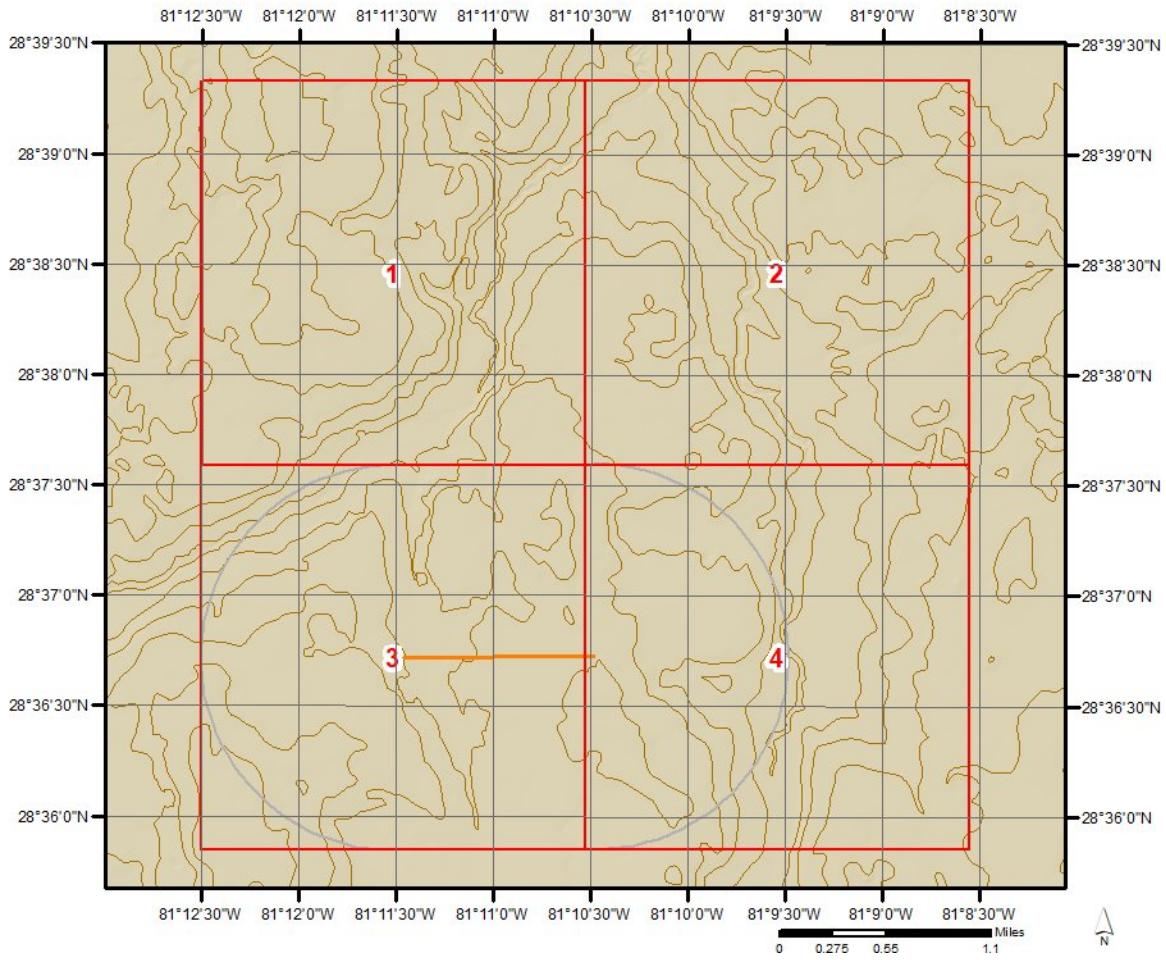
Source: USGS 7.5 Minute Topographic Map

Topographic Information

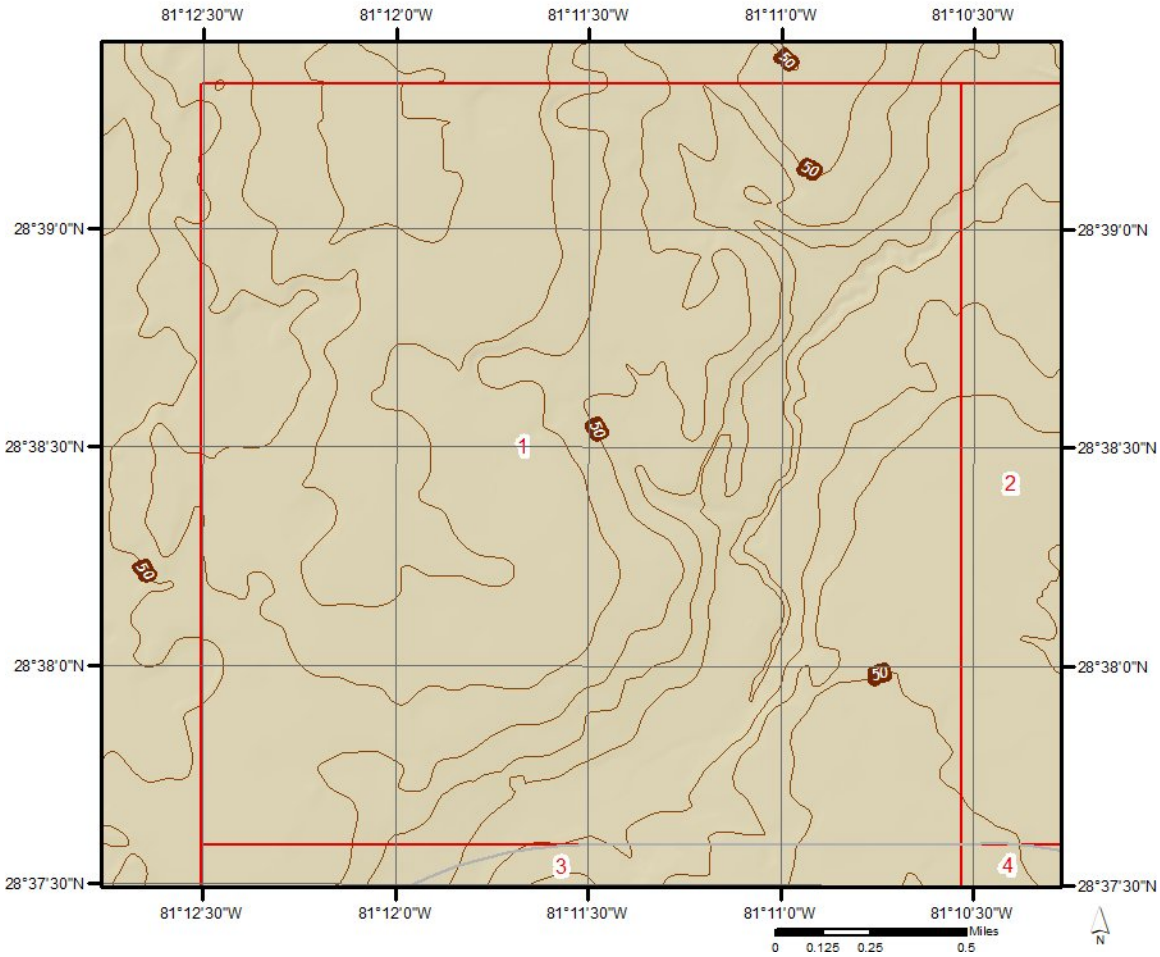
The previous topographic map(s) are created by seamlessly merging and cutting current USGS topographic data. Below are shaded relief map(s), derived from USGS elevation data to show surrounding topography in further detail.

Topographic information at project property:

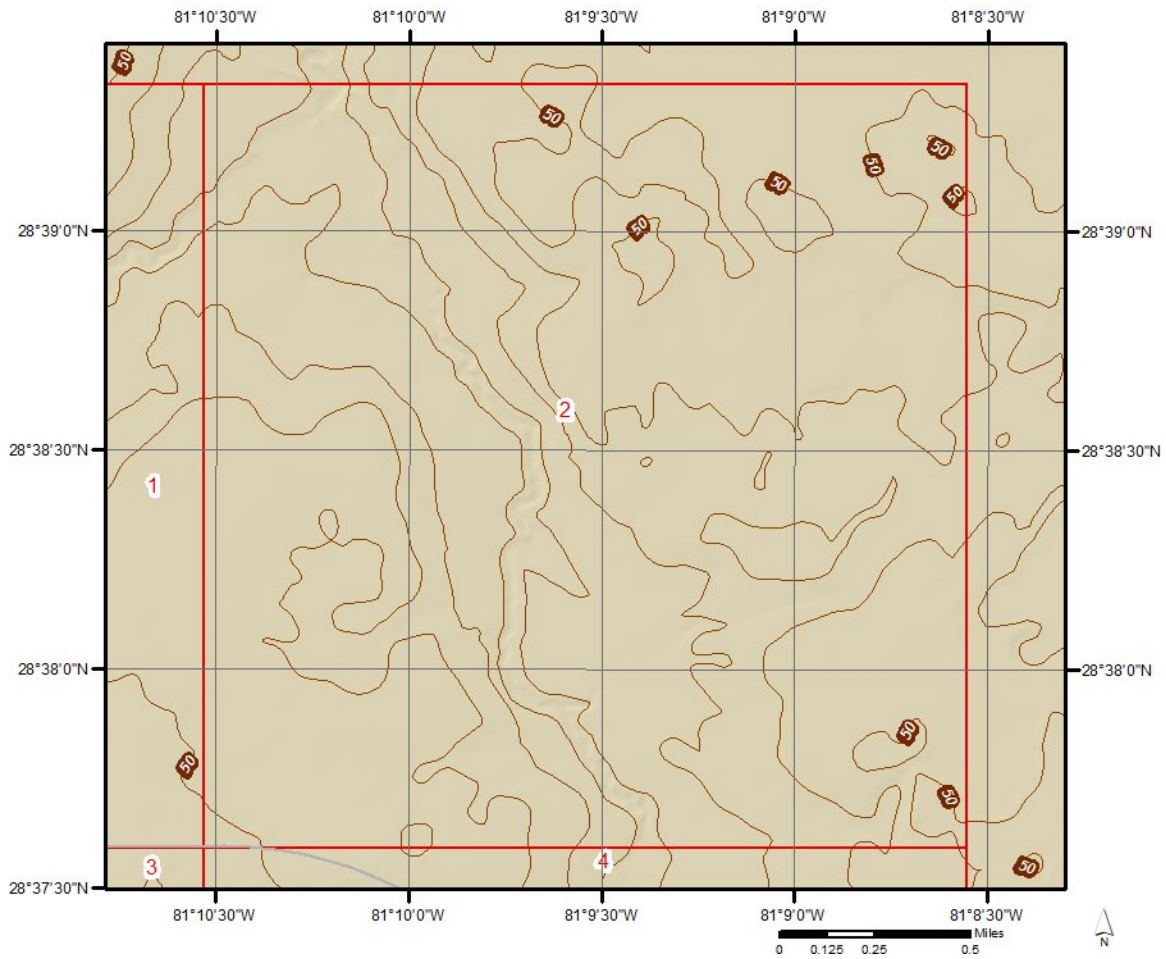
Elevation: 54.00 ft
Slope Direction: E



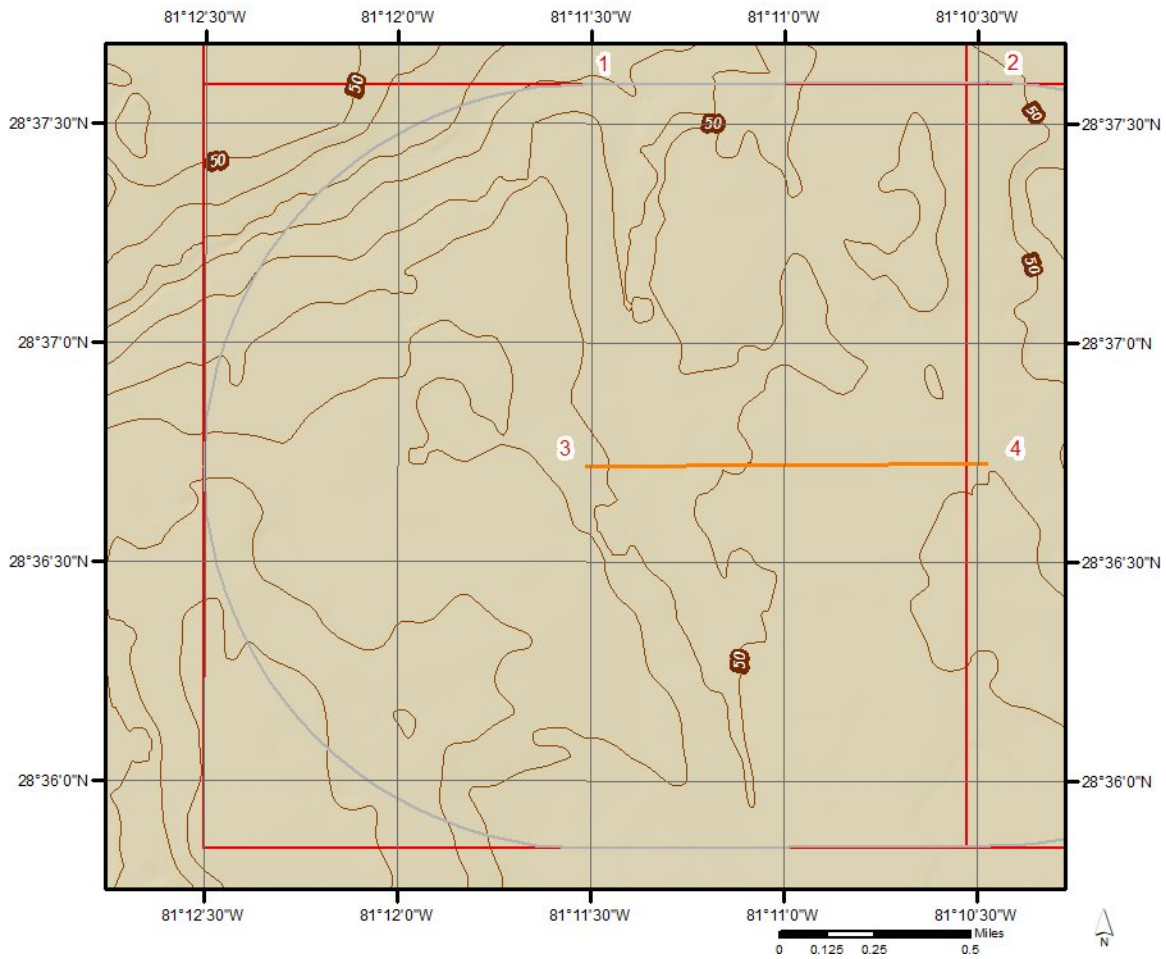
Topographic Information



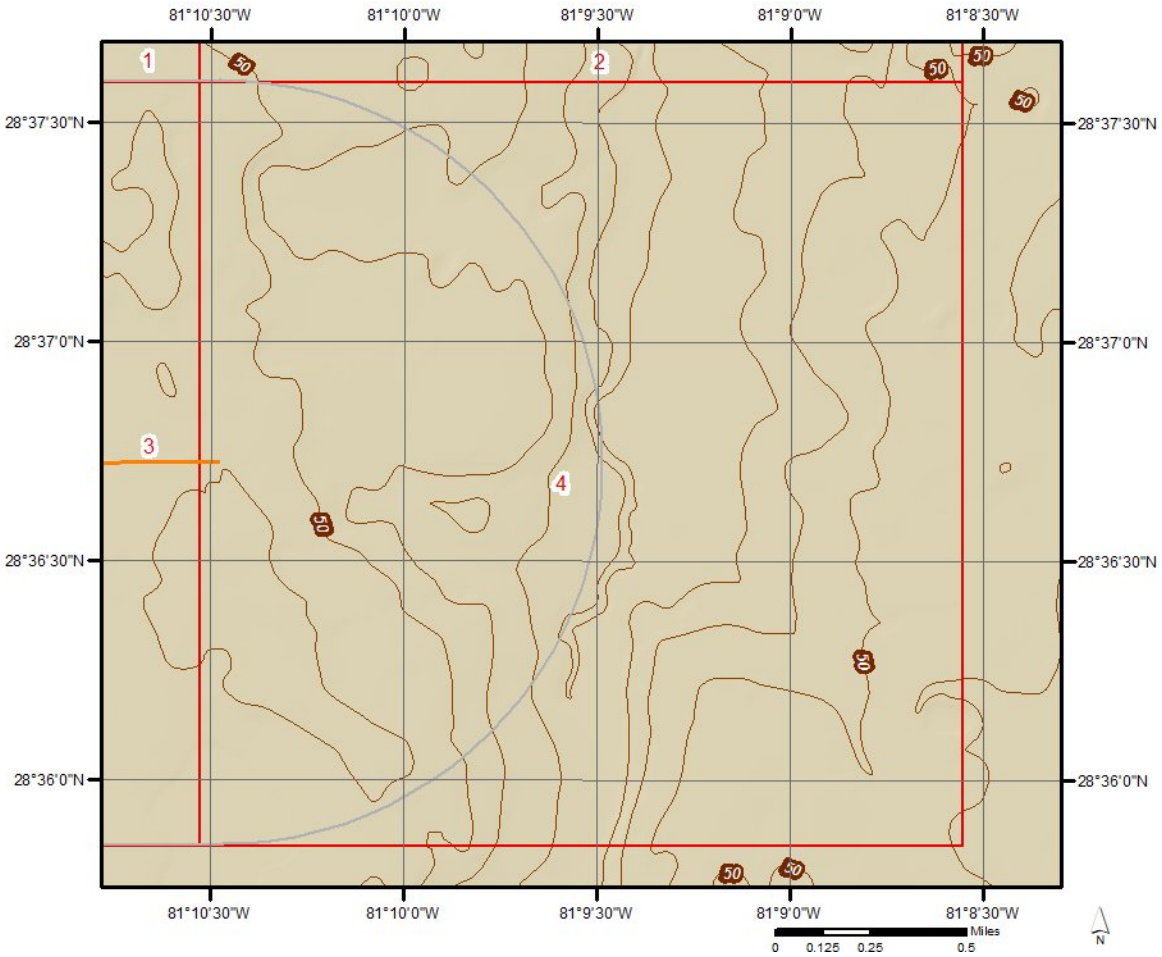
Topographic Information



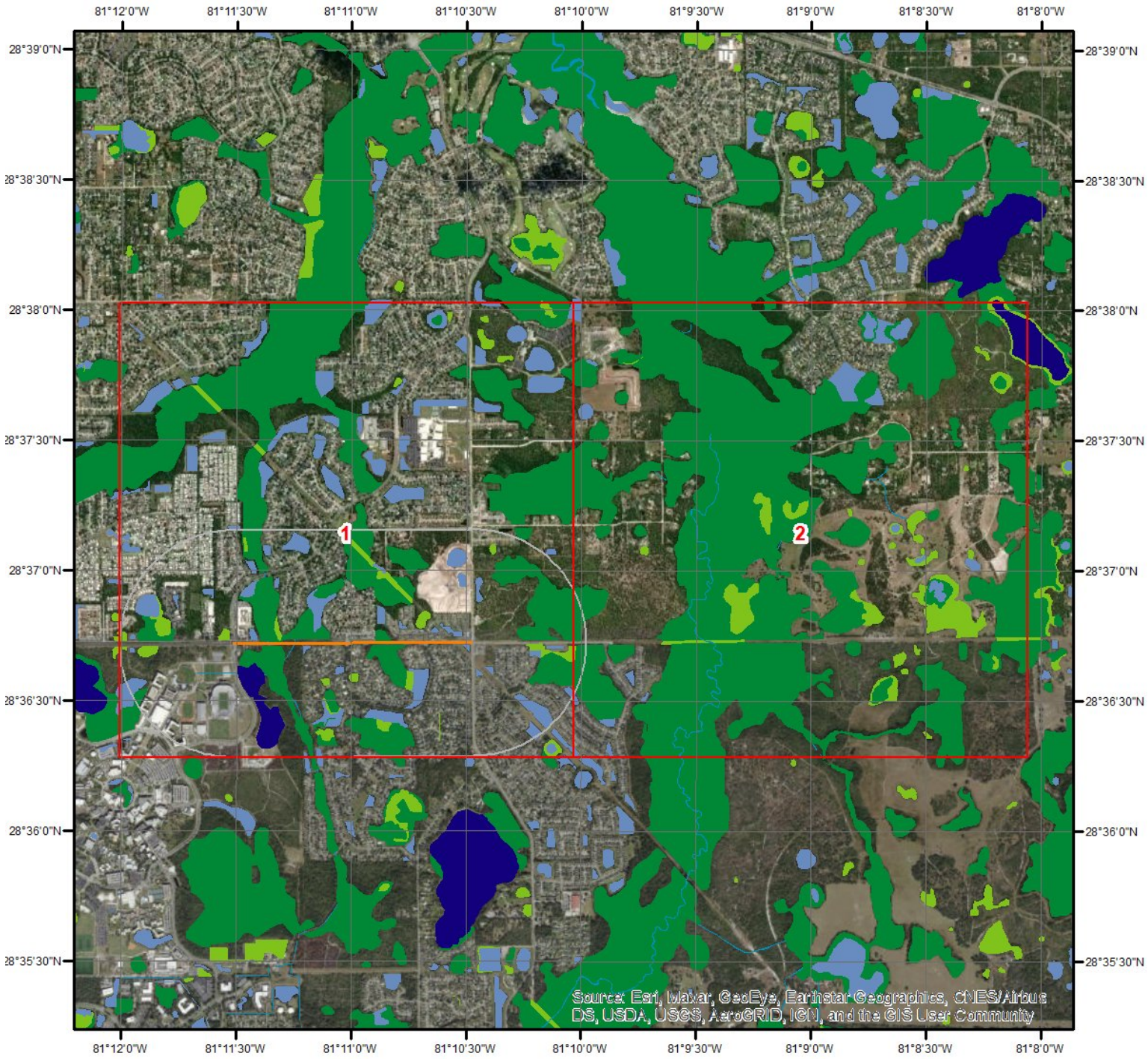
Topographic Information



Topographic Information



Hydrologic Information



Wetland

0 0.275 0.55 1.1 Miles

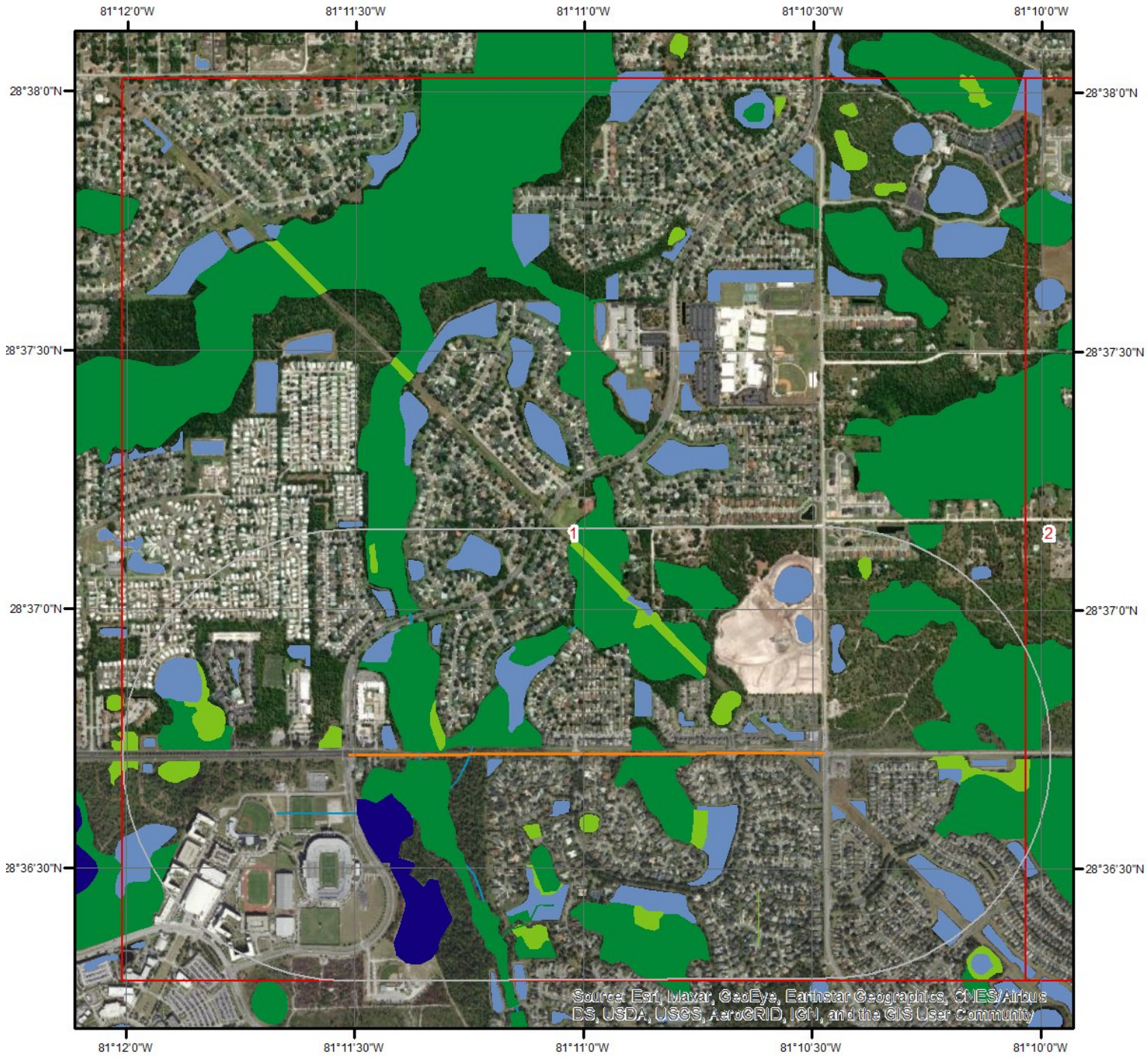
N

This map shows wetland existence using data from US Fish & Wildlife.
Data coverage is shown to the right. Gray indicates no data available in the area.

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

ERIS

Hydrologic Information



Wetland Type - Page 1

0 0.125 0.25 0.5 Miles

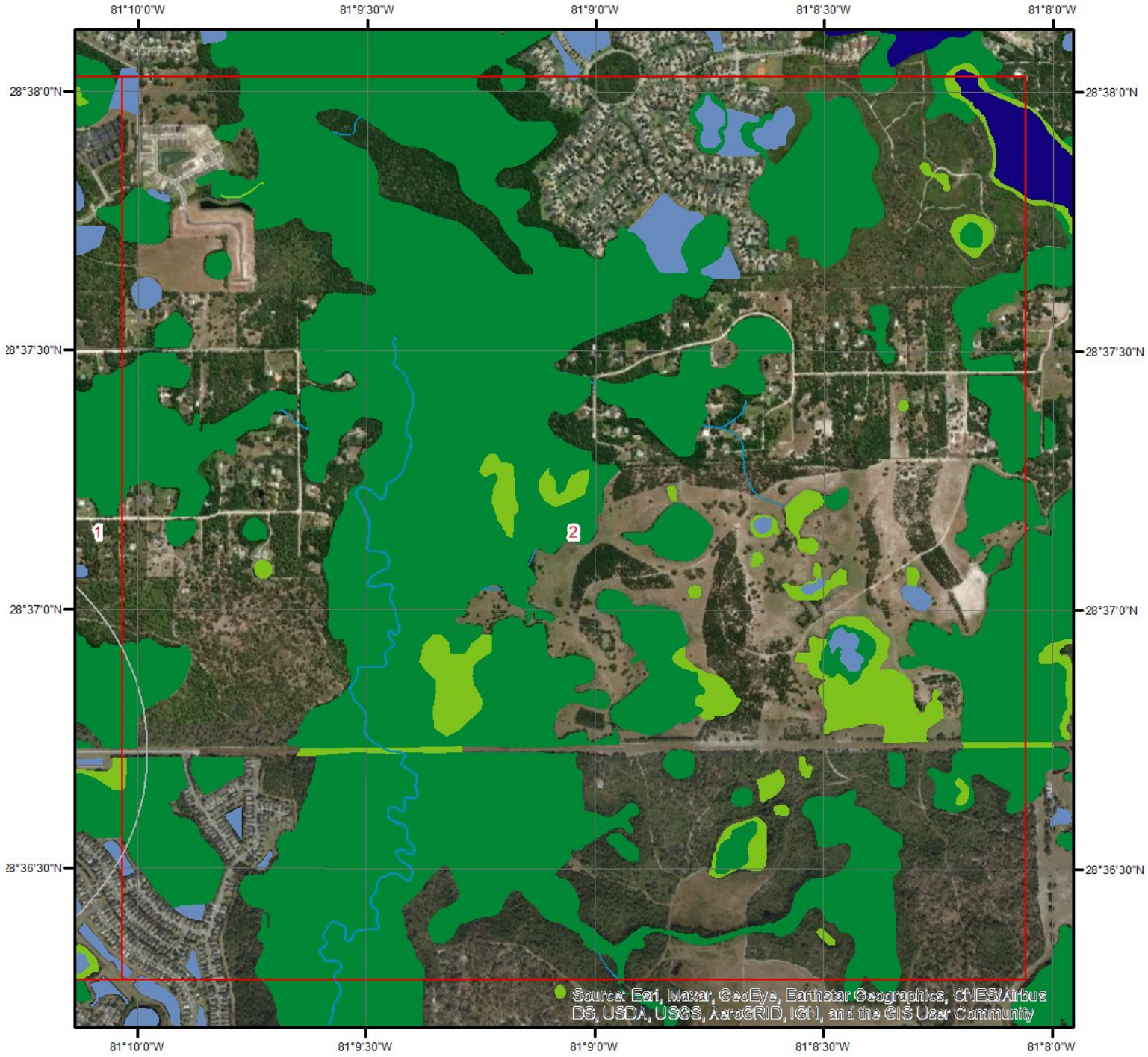
N

This map shows wetland existence using data from US Fish & Wildlife.
Data coverage is shown to the right. Gray indicates no data available in the area.

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

ERIS

Hydrologic Information



Wetland Type - Page 2

0 0.125 0.25 0.5 Miles

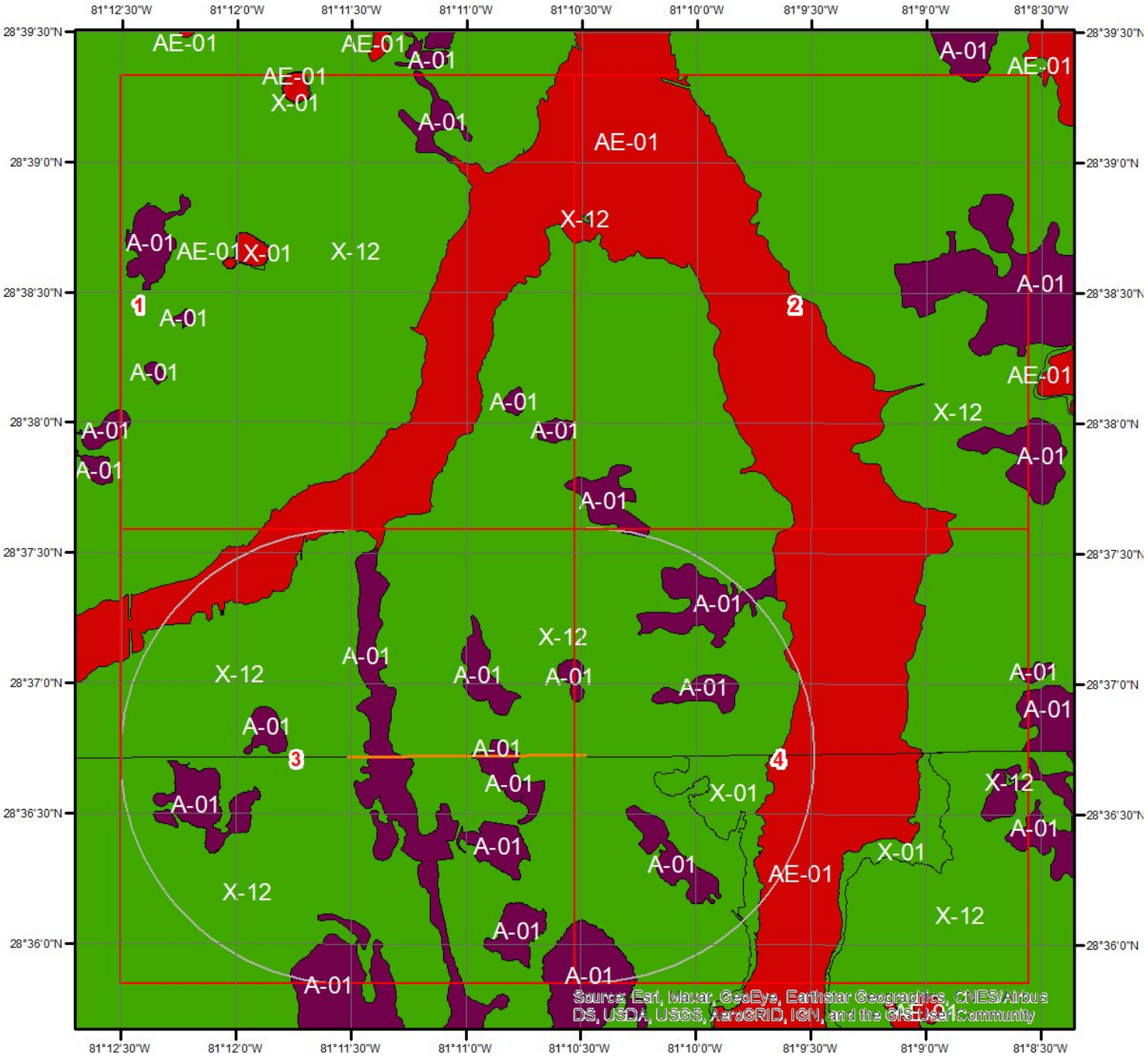
N

This map shows wetland existence using data from US Fish & Wildlife.
Data coverage is shown to the right. Gray indicates no data available in the area.

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

ERIS

Hydrologic Information



Flood Hazard Zones

This map shows FEMA flood hazard zones. FIRM panels are shown to the right, and blank indicates no data is available.

A	AO	X
A99	V	OPEN WATER
AE	VE	NOT POPULATED
AH	D	AREA NOT INCLUDED

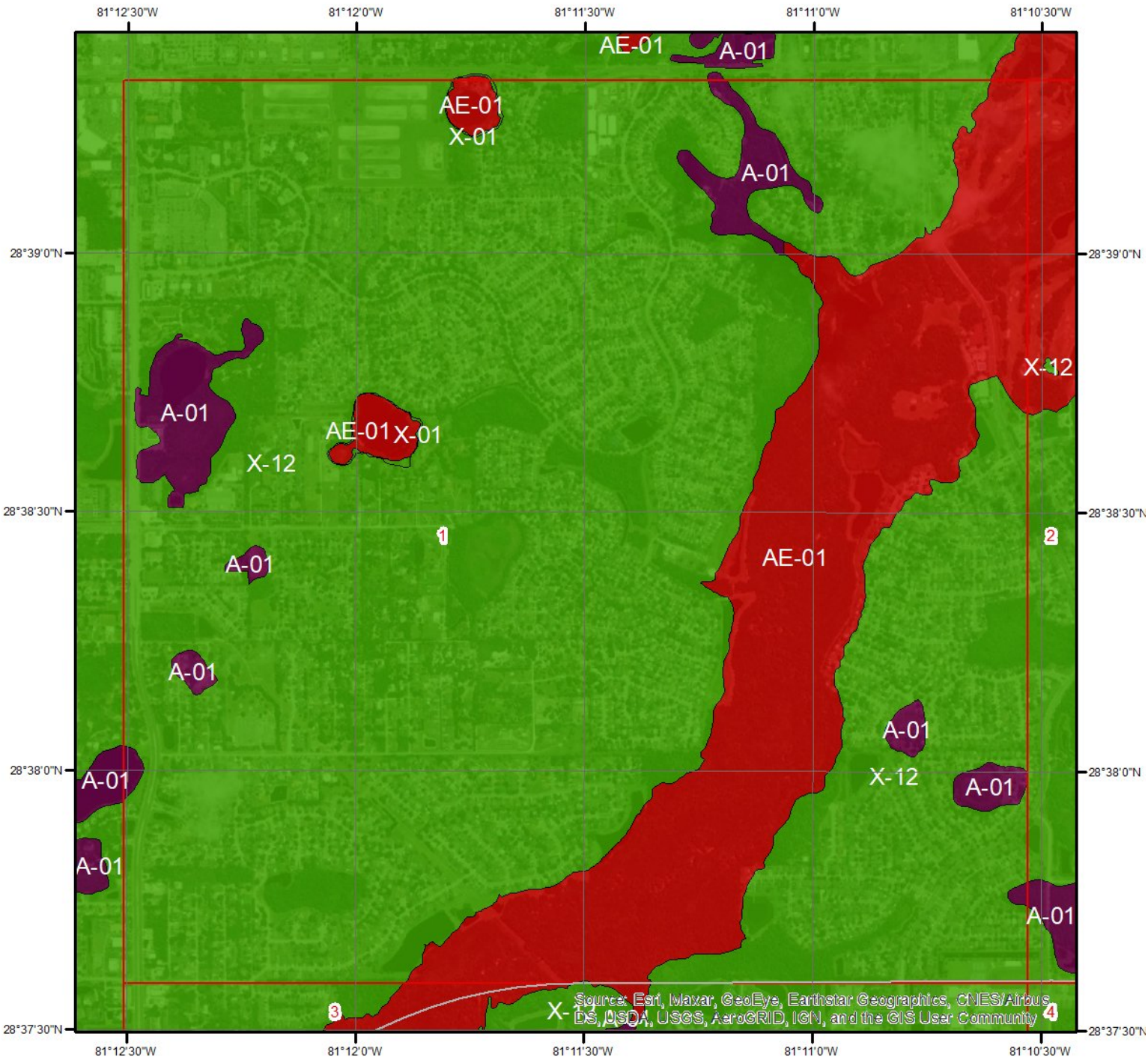
Miles
0 0.2 0.4 0.8

N

12117C0195F
12117C0285F
12095C0285F

ERIS

Hydrologic Information



Flood Hazard Zones - Page 1

This map shows FEMA flood hazard zones. FIRM panels are shown to the right, and blank indicates no data is available.

Miles
0 0.2 0.4

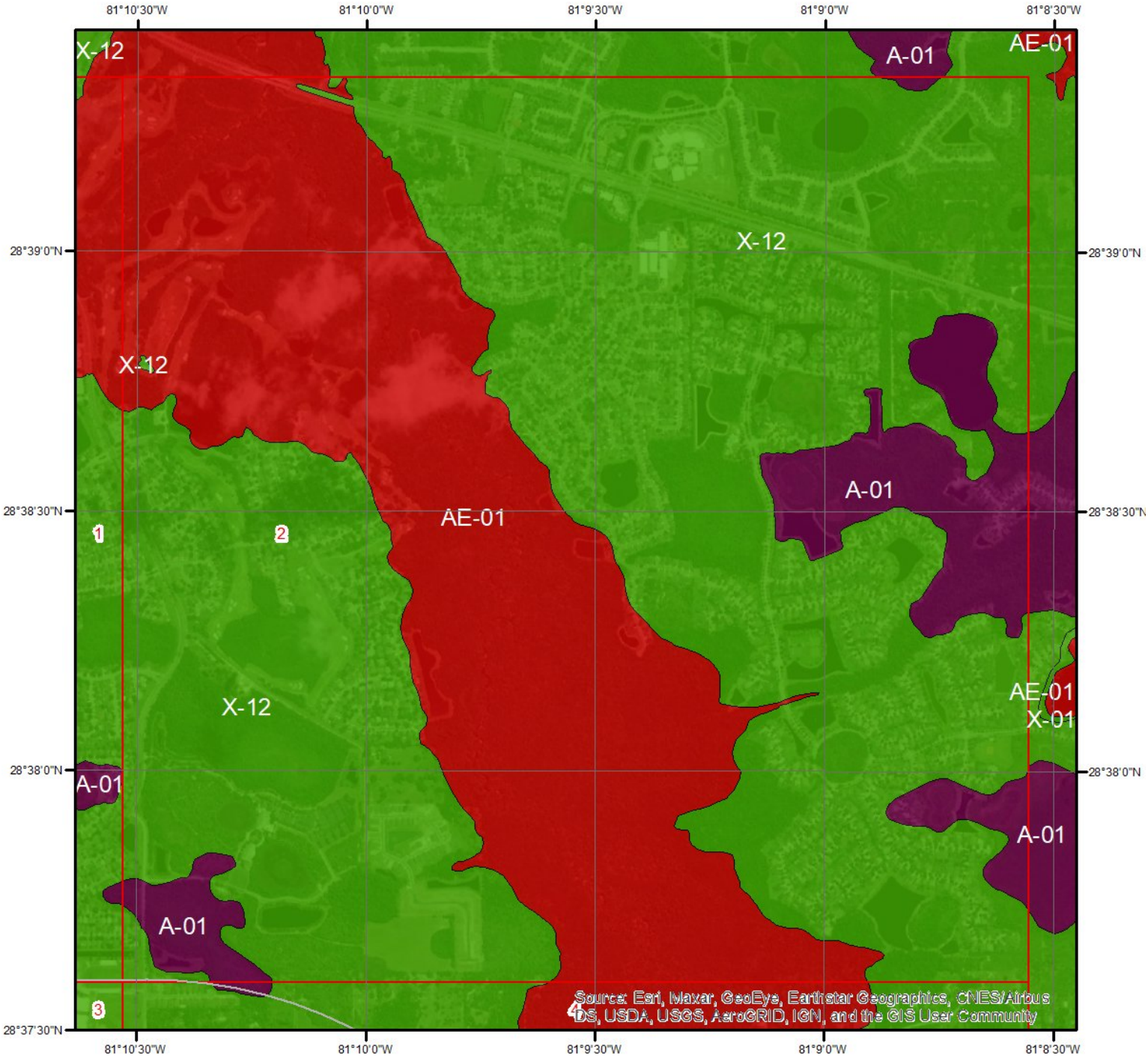
N

12117C0190F
12117C0195F
12117C0280F

A	AO	X
A99	V	OPEN WATER
AE	VE	NOT POPULATED
AH	D	AREA NOT INCLUDED

ERIS

Hydrologic Information



Flood Hazard Zones - Page 2

This map shows FEMA flood hazard zones. FIRM panels are shown to the right, and blank indicates no data is available.

A	AO	X
A99	V	OPEN WATER
AE	VE	NOT POPULATED
AH	D	AREA NOT INCLUDED

0 0.2 0.4 Miles

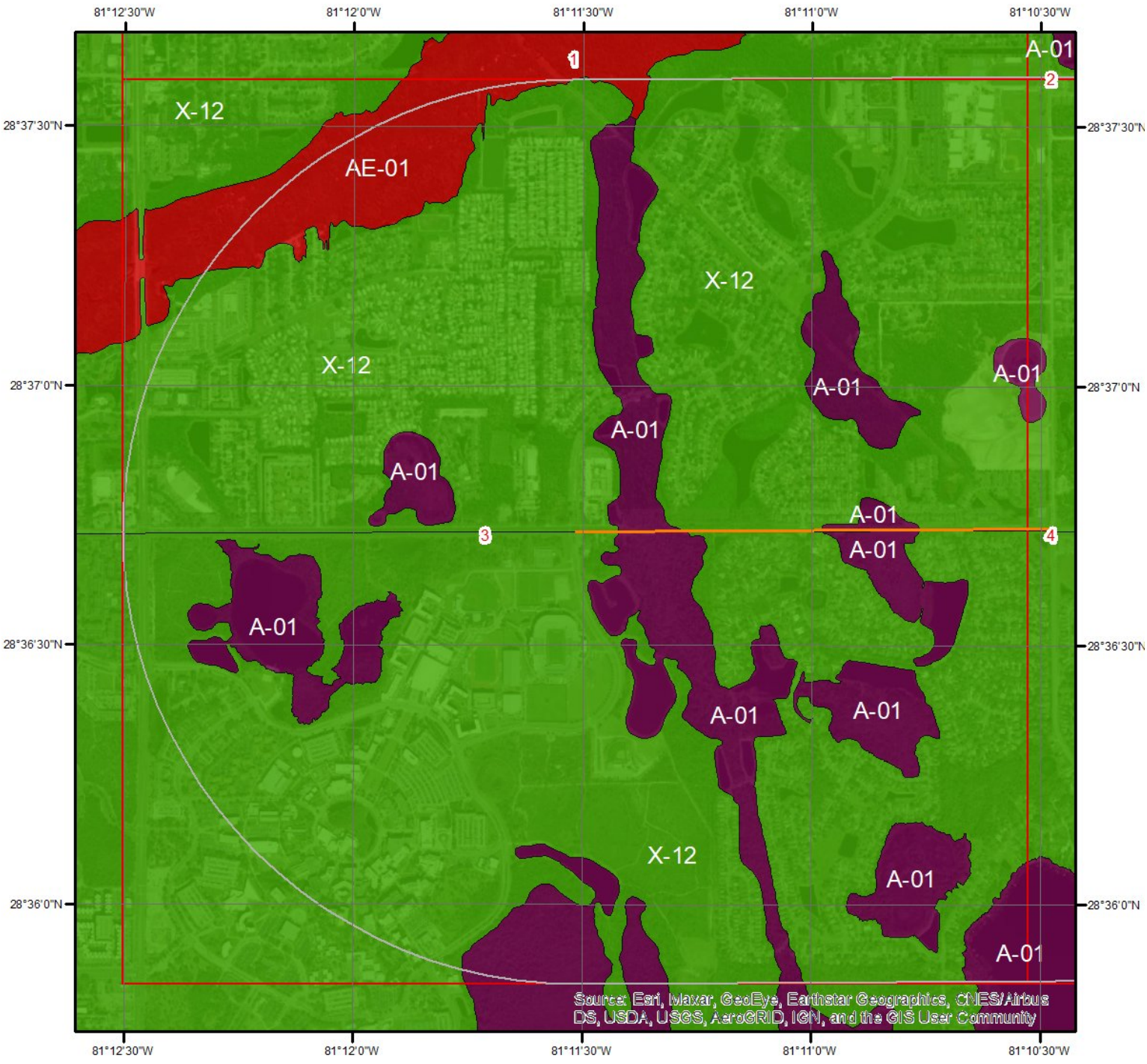
N

12117C0195F

12117C0285F

ERIS

Hydrologic Information



Flood Hazard Zones - Page 3

This map shows FEMA flood hazard zones. FIRM panels are shown to the right, and blank indicates no data is available.

A	AO	X
A99	V	OPEN WATER
AE	VE	NOT POPULATED
AH	D	AREA NOT INCLUDED

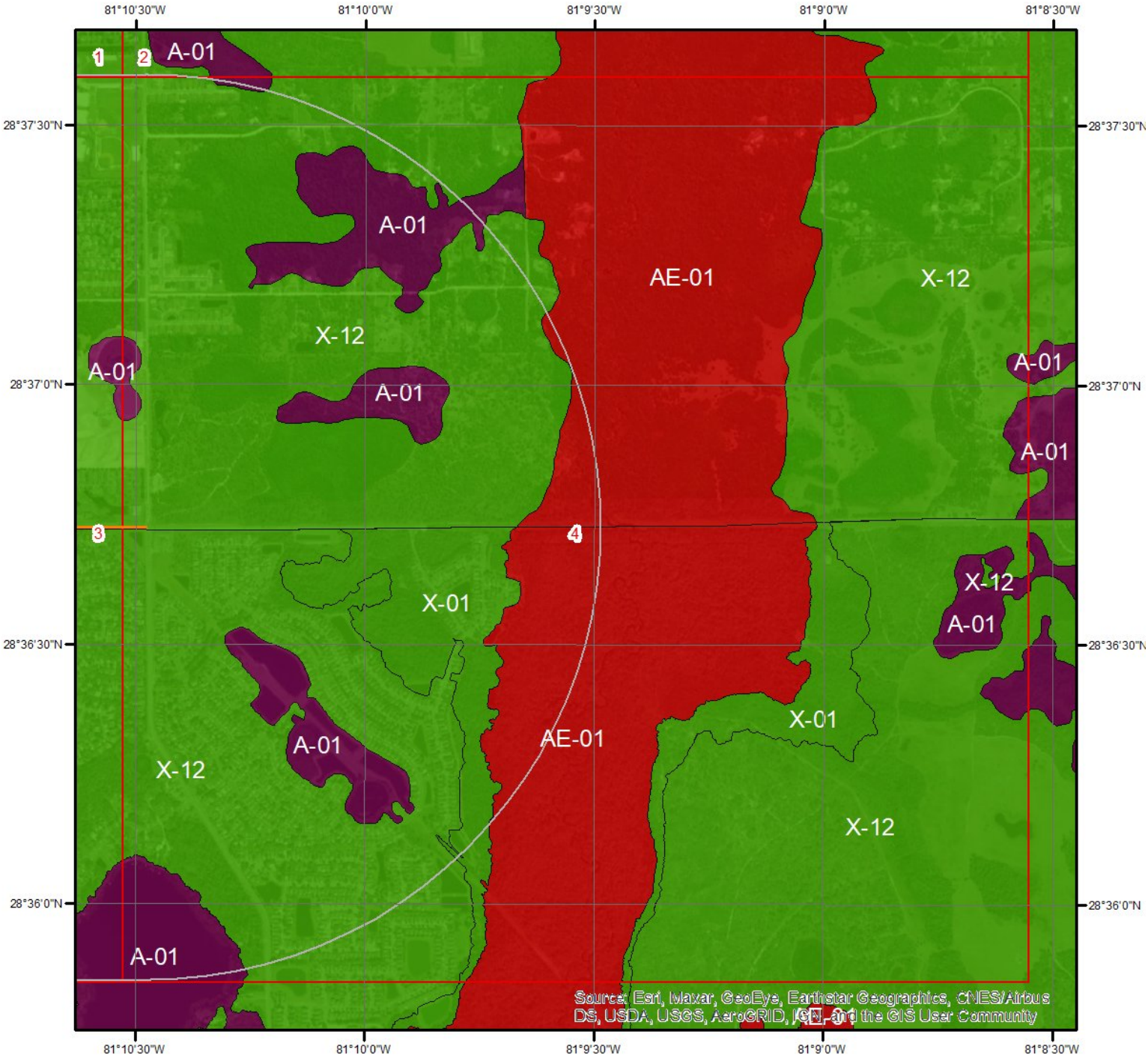
0 0.2 0.4 Miles

N

12117C0190F
12095C0280F
12117C0280F
12095C0285F
12117C0285F

ERIS

Hydrologic Information



Flood Hazard Zones - Page 4

This map shows FEMA flood hazard zones. FIRM panels are shown to the right, and blank indicates no data is available.

0 0.2 0.4 Miles

N

12117C0195F

12095C0285F
12117C0285F

A	AO	X
A99	V	OPEN WATER
AE	VE	NOT POPULATED
AH	D	AREA NOT INCLUDED

ERIS

Hydrologic Information

The Wetland Type map shows wetland existence overlaid on an aerial imagery. The Flood Hazard Zones map shows FEMA flood hazard zones overlaid on an aerial imagery. Relevant FIRM panels and detailed zone information is provided below.
For detailed Zone descriptions please click the link: https://floodadvocate.com/fema-zone-definitions

Available FIRM Panels in area:	12095C0285F(effective:2009-09-25) 12095C0280F(effective:2009-09-25) 12117C0190F(effective:2007-09-28) 12117C0285F(effective:2007-09-28) 12117C0195F(effective:2007-09-28) 12117C0280F(effective:2007-09-28)

Flood Zone A-01

Zone:	A
Zone subtype:	

Flood Zone AE-01

Zone:	AE
Zone subtype:	

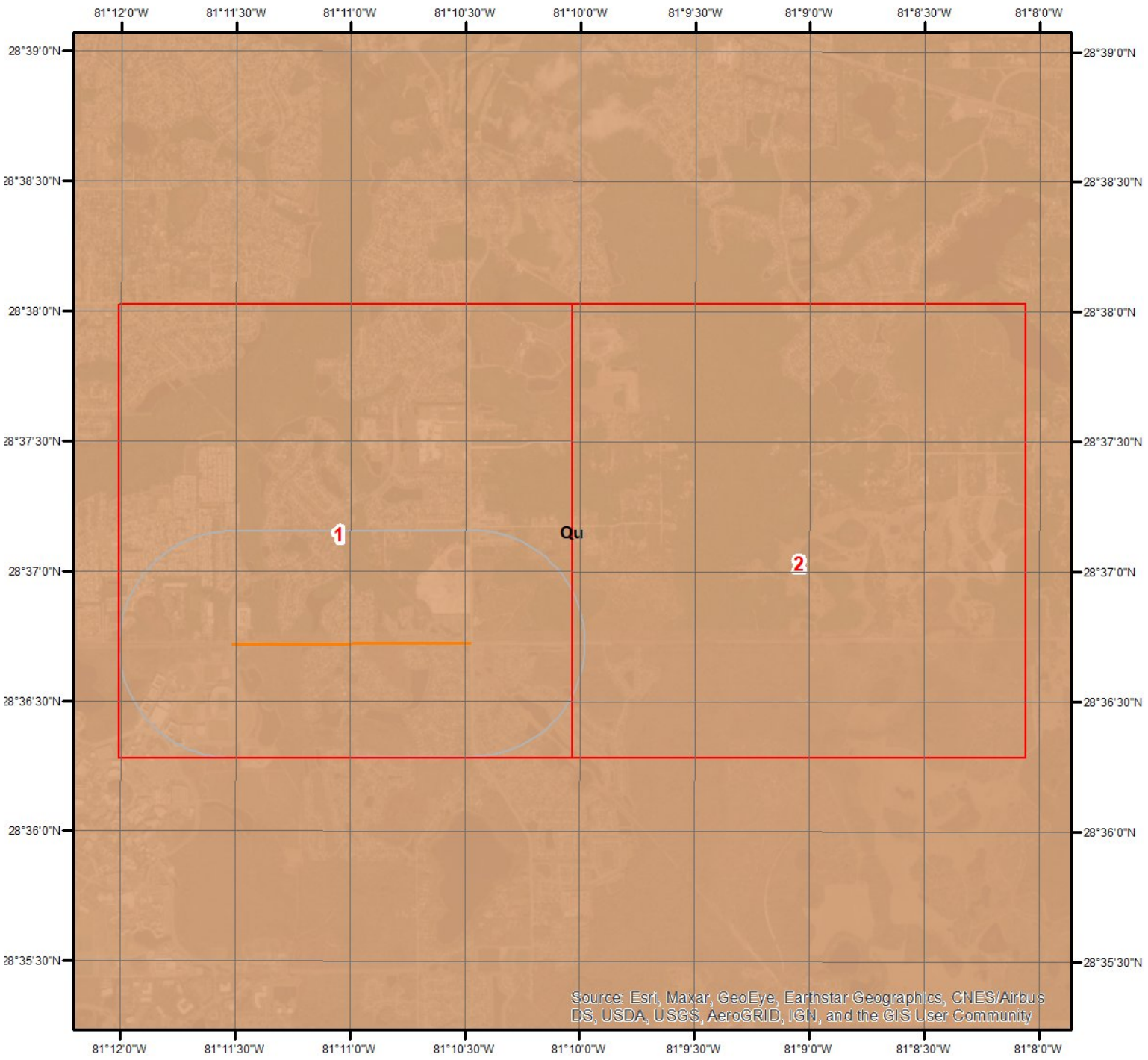
Flood Zone X-01

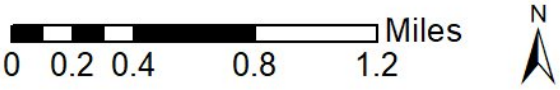
Zone:	X
Zone subtype:	0.2 PCT ANNUAL CHANCE FLOOD HAZARD

Flood Zone X-12

Zone:	X
Zone subtype:	AREA OF MINIMAL FLOOD HAZARD

Geologic Information

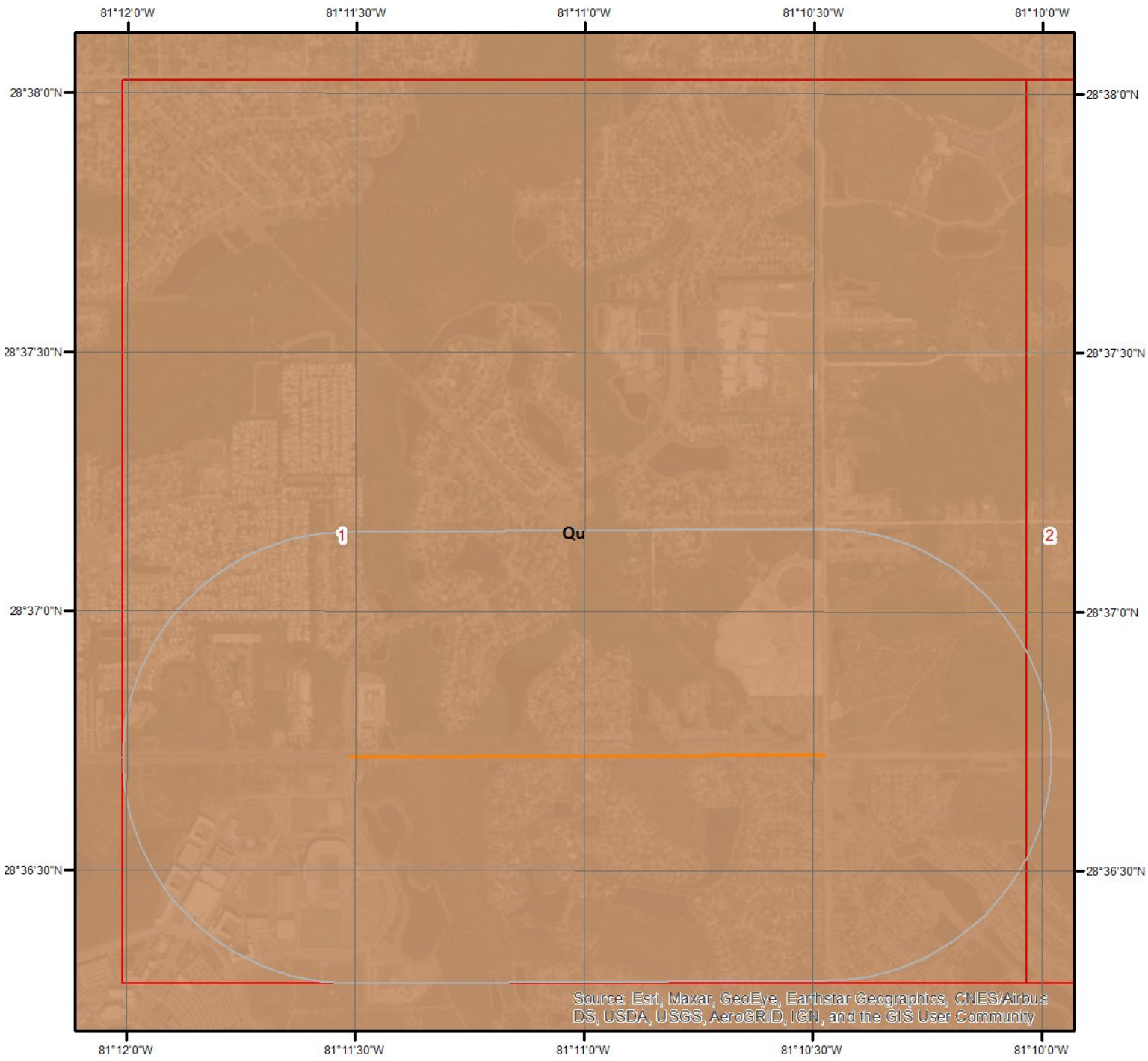




Geologic Units

This maps shows geologic units in the area. Please refer to the report for detailed descriptions.

Geologic Information



Miles
0 0.2 0.4

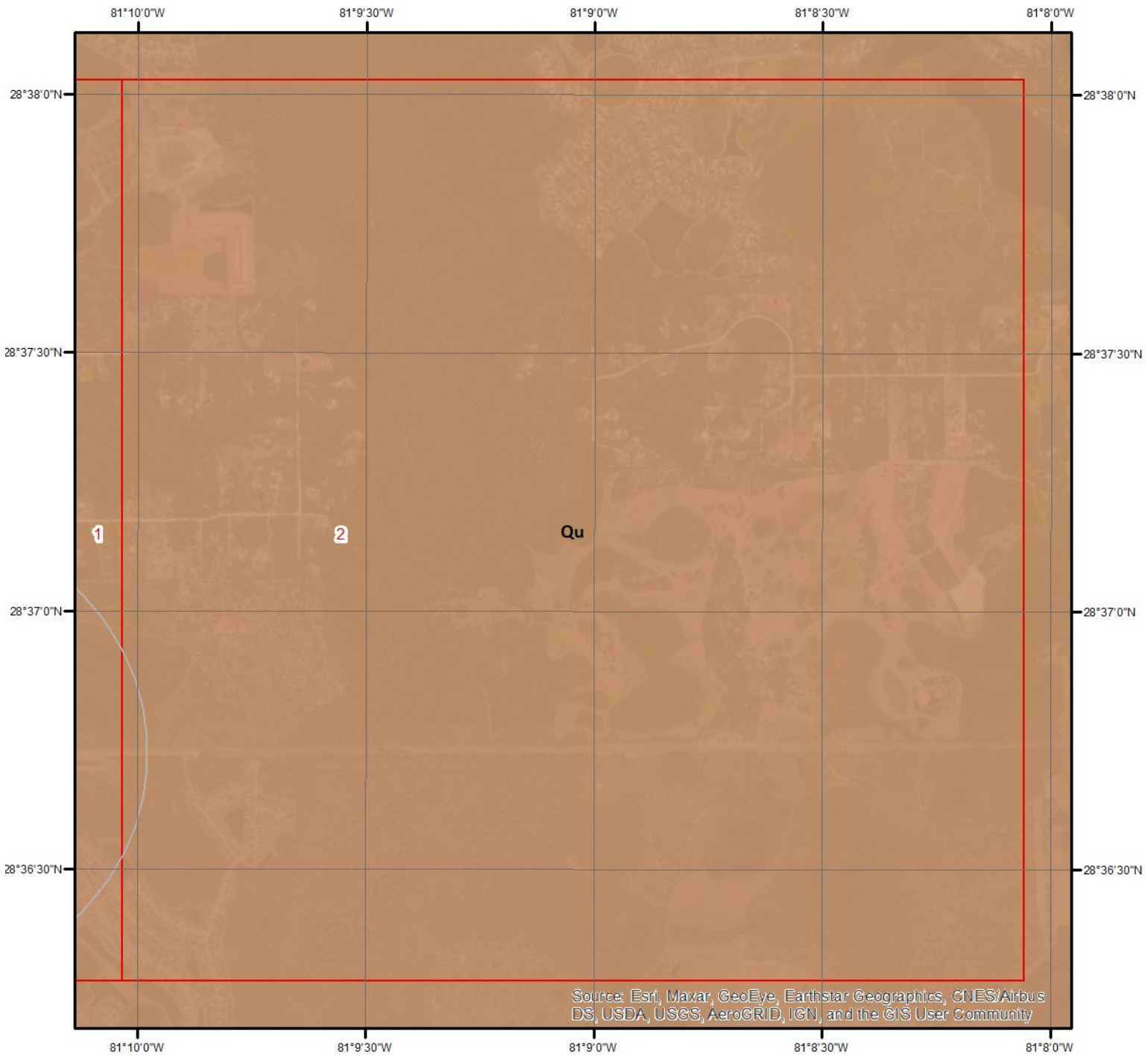
N

Geologic Units - Page 1

This maps shows geologic units in the area. Please refer to the report for detailed descriptions.

ERIS

Geologic Information



Miles
0 0.2 0.4

N

Geologic Units - Page 2

This maps shows geologic units in the area. Please refer to the report for detailed descriptions.

ERIS

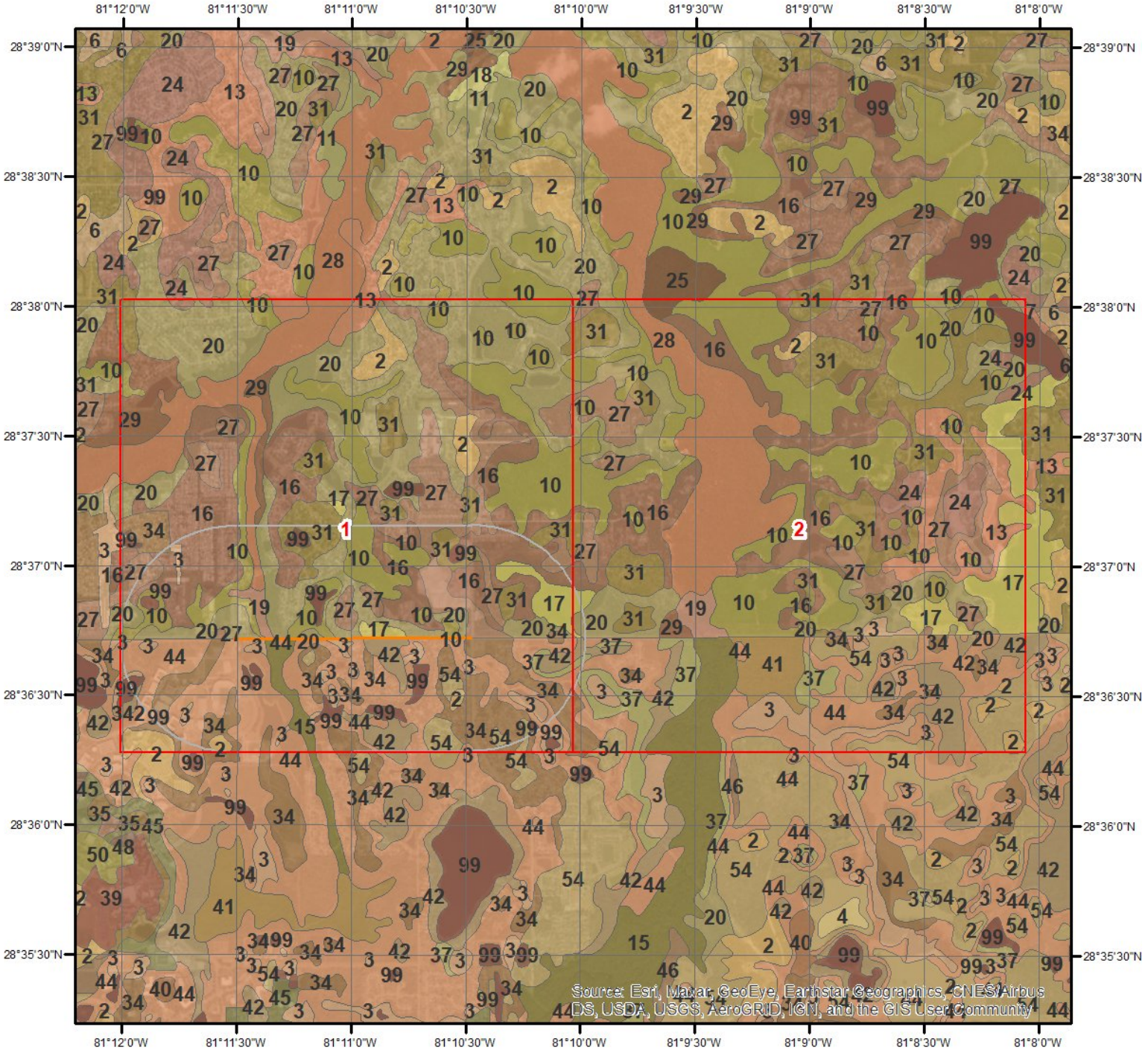
Geologic Information

The previous page shows USGS geology information. Detailed information about each unit is provided below.

Geologic Unit Qu

Unit Name:	Undifferentiated sediments
Unit Age:	Pleistocene/Holocene
Primary Rock Type:	clay or mud
Secondary Rock Type:	beach sand
Unit Description:	Undifferentiated sediments - Undifferentiated Quaternary Sediments - Much of Florida's surface is covered by a varying thickness of undifferentiated sediments consisting of siliciclastics, organics and freshwater carbonates. Where these sediments exceed 20 feet (6.1 meters) thick, they were mapped as discrete units. In an effort to subdivide the undifferentiated sediments, those sediments occurring in flood plains were mapped as alluvial and flood plain deposits (Qal). Sediments showing surficial expression of beach ridges and dunes were mapped separately (Qbd) as were the sediments composing Trail Ridge (Qtr). Terrace sands were not mapped (refer to Healy [1975] for a discussion of the terraces in Florida). The subdivisions of the Undifferentiated Quaternary Sediments (Qu) are not lithostratigraphic units but are utilized in order to facilitate a better understanding of the State's geology. The siliciclastics are light gray, tan, brown to black, unconsolidated to poorly consolidated, clean to clayey, silty, unfossiliferous, variably organic-bearing sands to blue green to olive green, poorly to moderately consolidated, sandy, silty clays. Gravel is occasionally present in the panhandle. Organics occur as plant debris, roots, disseminated organic matrix and beds of peat. Freshwater carbonates, often referred to as marls in the literature, are scatteredover much of the State. In southern Florida, freshwater carbonates are nearly ubiquitous in the Everglades. These sediments are buff colored to tan, unconsolidated to poorly consolidated, fossiliferous carbonate muds. Sand, silt and clay may be present in limited quantities. These carbonates often contain organics. The dominant fossils in the freshwater carbonates are mollusks.

Soil Information



SSURGO Soils

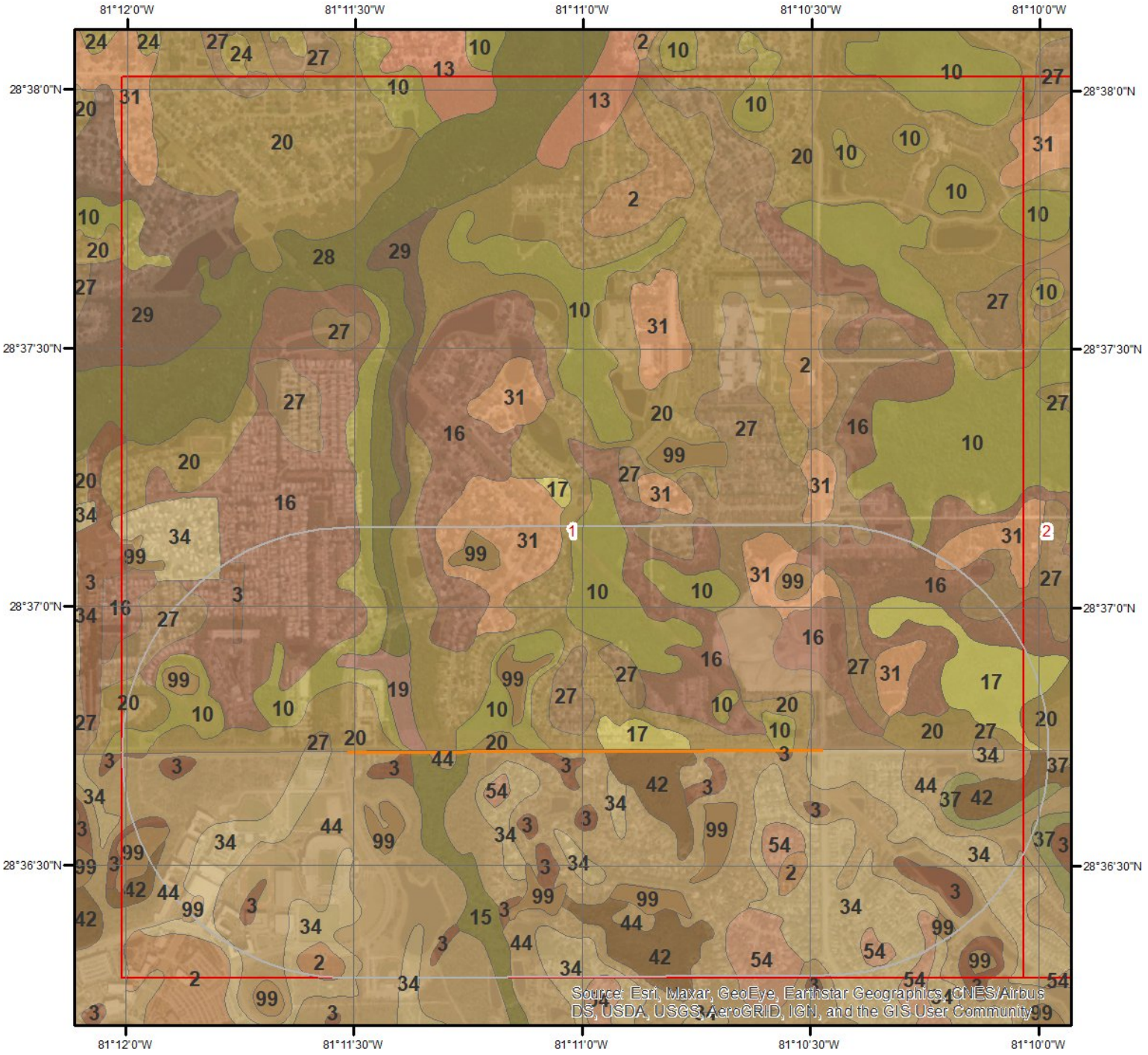
0 0.2 0.4 0.8 1.2 Miles

N

This maps shows SSURGO soil units around the target property. Please refer to the report for detailed soil descriptions.

ERIS

Soil Information



SSURGO Soils - Page 1

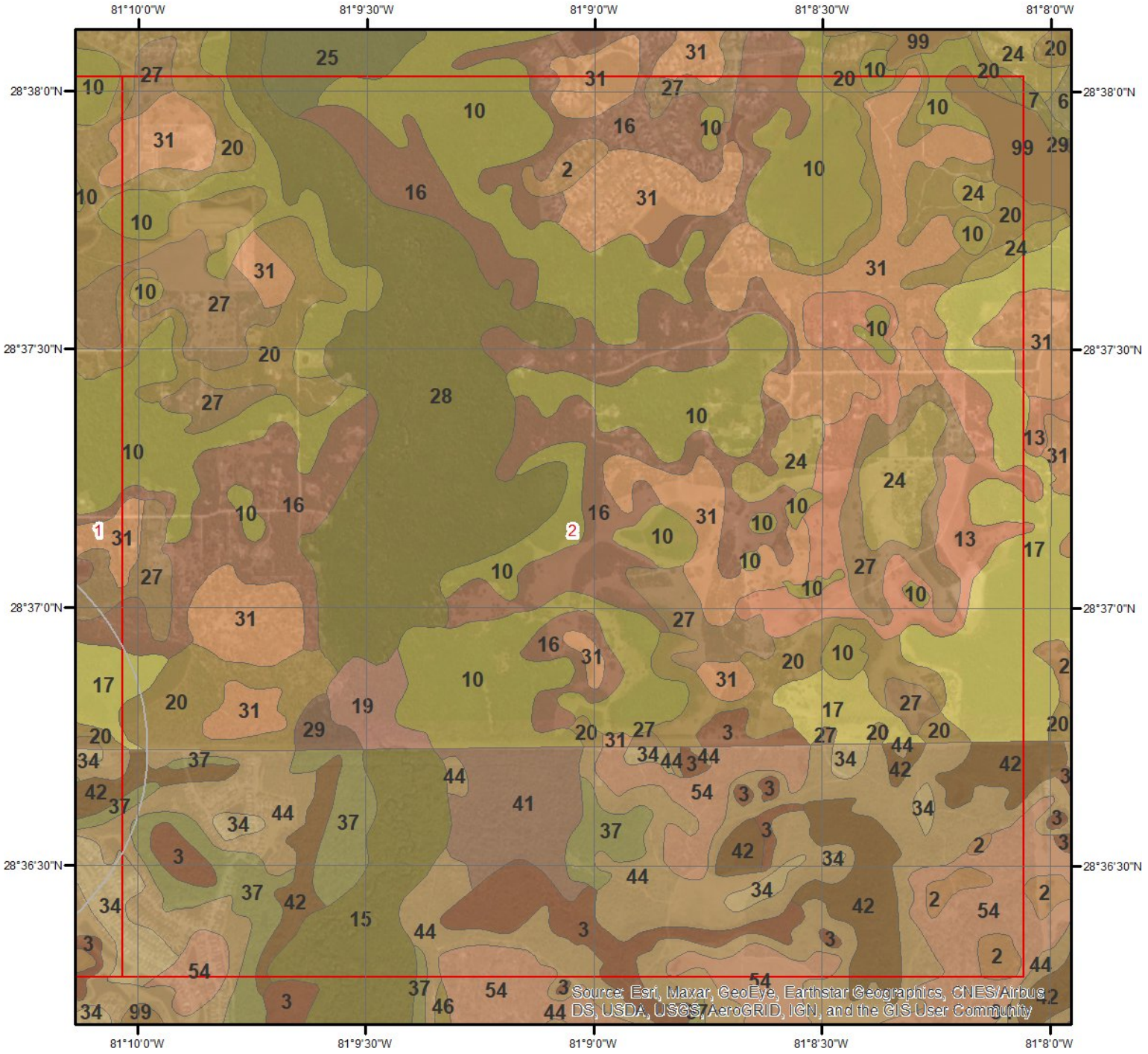
Miles
0 0.2 0.4

N

This maps shows SSURGO soil units around the target property. Please refer to the report for detailed soil descriptions.

ERIS

Soil Information



SSURGO Soils - Page 2

Miles
0 0.2 0.4

N

This maps shows SSURGO soil units around the target property. Please refer to the report for detailed soil descriptions.

ERIS

Soil Information

The previous page shows a soil map using SSURGO data from USDA Natural Resources Conservation Service. Detailed information about each unit is provided below.

Map Unit 10 (4.82%)

Map Unit Name:	Basinger, Samsula, and Hontoon soils, depressional
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	0cm
Drainage Class - Dominant:	Very poorly drained
Hydrologic Group - Dominant:	A/D - These soils have low runoff potential when drained and high runoff potential when undrained.
Major components are printed below	
Basinger(58%)	
horizon A(0cm to 15cm)	Mucky fine sand
horizon Eg(15cm to 46cm)	Fine sand
horizon Bh/Eg(46cm to 89cm)	Fine sand
horizon Cg(89cm to 203cm)	Fine sand
Samsula(15%)	
horizon Oa(0cm to 76cm)	Muck
horizon Cg(76cm to 203cm)	Fine sand
Hontoon(15%)	
horizon Oa(0cm to 203cm)	Muck

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 10 - Basinger, Samsula, and Hontoon soils, depressional

Component: Basinger (58%)
The Basinger component makes up 58 percent of the map unit. Slopes are 0 to 2 percent. This component is on depressions on marine terraces on coastal plains. The parent material consists of sandy marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is very poorly drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during June, July, August, September, October, November, December. Organic matter content in the surface horizon is about 14 percent. Nonirrigated land capability classification is 7w. This soil meets hydric criteria. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 1 within 30 inches of the soil surface.

Component: Hontoon (15%)
The Hontoon component makes up 15 percent of the map unit. Slopes are 0 to 2 percent. This component is on depressions on marine terraces on coastal plains. The parent material consists of herbaceous organic material. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is very poorly drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is very high. Shrink-swell potential is low. This soil is not flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during January, February, June, July, August, September, October, November, December. Organic matter content in the surface horizon is about 80 percent. Nonirrigated land capability classification is 7w. This soil meets hydric criteria. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 1 within 30 inches of the soil surface.

Component: Samsula (15%)
The Samsula component makes up 15 percent of the map unit. Slopes are 0 to 2 percent. This component is on depressions on marine terraces on coastal plains. The parent material consists of herbaceous organic material over sandy marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is very poorly drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during January, February, June, July, August, September, October, November, December. Organic matter content in the surface horizon is about 60 percent. Nonirrigated land capability classification is 7w. This soil meets hydric criteria. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 1 within 30 inches of the soil surface.

Soil Information

Component: EauGallie (3%)
Generated brief soil descriptions are created for major soil components. The EauGallie soil is a minor component.

Component: Felda (3%)
Generated brief soil descriptions are created for major soil components. The Felda soil is a minor component.

Component: Myakka (2%)
Generated brief soil descriptions are created for major soil components. The Myakka soil is a minor component.

Component: St. Johns (2%)
Generated brief soil descriptions are created for major soil components. The St. Johns soil is a minor component.

Component: Smyrna (2%)
Generated brief soil descriptions are created for major soil components. The Smyrna soil is a minor component.

Map Unit 15 (0.68%)

Map Unit Name:	Felda fine sand, frequently flooded
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	0cm
Drainage Class - Dominant:	Poorly drained
Hydrologic Group - Dominant:	A/D - These soils have low runoff potential when drained and high runoff potential when undrained.

Major components are printed below

Felda(99%)

horizon A(0cm to 8cm)	Fine sand
horizon E(8cm to 61cm)	Fine sand
horizon B(61cm to 119cm)	Sandy clay loam
horizon C(119cm to 203cm)	Fine sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 15 - Felda fine sand, 0 to 2 percent slopes, frequently flooded

Component: Felda (83%)
The Felda, frequently flooded component makes up 83 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains on marine terraces on coastal plains. The parent material consists of sandy and loamy marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is frequently flooded. It is not ponded. A seasonal zone of water saturation is at 6 inches during July, August, September, October. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 5w. This soil meets hydric criteria. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 1 within 30 inches of the soil surface.

Component: Felda (83%)
The Felda, frequently flooded component makes up 83 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains on marine terraces on coastal plains. The parent material consists of sandy and loamy marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is frequently flooded. It is not ponded. A seasonal zone of water saturation is at 6 inches during July, August, September, October. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 5w. This soil meets hydric criteria. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 1 within 30 inches of the soil surface.

Component: Basinger (7%)
Generated brief soil descriptions are created for major soil components. The Basinger soil is a minor component.

Component: Floridana (6%)
Generated brief soil descriptions are created for major soil components. The Floridana soil is a minor component.

Soil Information

Component: Pineda (4%)
Generated brief soil descriptions are created for major soil components. The Pineda soil is a minor component.

Map Unit 16 (7.9%)

Map Unit Name:	Immokalee sand
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	31cm
Drainage Class - Dominant:	Poorly drained
Hydrologic Group - Dominant:	B/D - These soils have moderately low runoff potential when drained and high runoff potential when undrained.

Major components are printed below

Immokalee(90%)

horizon A(0cm to 15cm)	Sand
horizon E(15cm to 91cm)	Fine sand
horizon Bh(91cm to 152cm)	Fine sand
horizon BC(152cm to 203cm)	Fine sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 16 - Immokalee sand, 0 to 2 percent slopes

Component: Immokalee (85%)
The Immokalee component makes up 85 percent of the map unit. Slopes are 0 to 2 percent. This component is on flatwoods on marine terraces on coastal plains. The parent material consists of sandy marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during June, July, August, September, October, November. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 4w. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 1 within 30 inches of the soil surface.

Component: Valkaria (5%)
Generated brief soil descriptions are created for major soil components. The Valkaria soil is a minor component.

Component: Oldsmar (4%)
Generated brief soil descriptions are created for major soil components. The Oldsmar soil is a minor component.

Component: Pomello (3%)
Generated brief soil descriptions are created for major soil components. The Pomello soil is a minor component.

Component: Satellite (2%)
Generated brief soil descriptions are created for major soil components. The Satellite soil is a minor component.

Component: Felda (1%)
Generated brief soil descriptions are created for major soil components. The Felda soil is a minor component.

Map Unit 17 (0.74%)

Map Unit Name:	Brighton, Samsula, and Sanibel mucks
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	0cm
Drainage Class - Dominant:	Very poorly drained
Hydrologic Group - Dominant:	A/D - These soils have low runoff potential when drained and high runoff potential when undrained.

Major components are printed below

Brighton(47%)	
horizon Oa(0cm to 20cm)	Muck
horizon Oe(20cm to 203cm)	Mucky peat
Samsula(35%)	
horizon Oa(0cm to 66cm)	Muck
horizon A(66cm to 76cm)	Mucky fine sand
horizon Cg(76cm to 203cm)	Fine sand
Sanibel(15%)	
horizon Oa(0cm to 15cm)	Muck
horizon A(15cm to 20cm)	Mucky fine sand
horizon Cg(20cm to 203cm)	Fine sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 17 - Brighton, Samsula, and Sanibel mucks

Component: Brighton (47%)
The Brighton, drained component makes up 47 percent of the map unit. Slopes are 0 to 1 percent. This component is on depressions on marine terraces on coastal plains. The parent material consists of woody organic material. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is very poorly drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is very high. Shrink-swell potential is low. This soil is not flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during June, July, August, September. Organic matter content in the surface horizon is about 75 percent. Nonirrigated land capability classification is 3w. This soil meets hydric criteria. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 1 within 30 inches of the soil surface.

Component: Samsula (35%)
The Samsula, drained component makes up 35 percent of the map unit. Slopes are 0 to 1 percent. This component is on depressions on marine terraces on coastal plains. The parent material consists of herbaceous organic material over sandy marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is very poorly drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during June, July, August, September. Organic matter content in the surface horizon is about 60 percent. Nonirrigated land capability classification is 3w. This soil meets hydric criteria. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 1 within 30 inches of the soil surface.

Component: Sanibel (15%)
The Sanibel, drained component makes up 15 percent of the map unit. Slopes are 0 to 1 percent. This component is on depressions on marine terraces on coastal plains. The parent material consists of thin organic material over sandy marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is very poorly drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during June, July, August, September. Organic matter content in the surface horizon is about 45 percent. Nonirrigated land capability classification is 3w. This soil meets hydric criteria. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 1 within 30 inches of the soil surface.

Component: Delray (2%)
Generated brief soil descriptions are created for major soil components. The Delray soil is a minor component.

Component: Basinger (1%)
Generated brief soil descriptions are created for major soil components. The Basinger soil is a minor component.

Map Unit 19 (0.17%)

Map Unit Name:	Manatee, Floridana, and Holopaw soils, frequently flooded
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	0cm
Drainage Class - Dominant:	Very poorly drained

Soil Information

Hydrologic Group - Dominant:	B/D - These soils have moderately low runoff potential when drained and high runoff potential when undrained.

Major components are printed below

Manatee(61%)	
horizon A(0cm to 25cm)	Fine sand
horizon Btg1(25cm to 84cm)	Loamy sand
horizon Btg2(84cm to 132cm)	Sandy clay loam
horizon Cg(132cm to 203cm)	Loamy fine sand
Floridana(21%)	
horizon A(0cm to 46cm)	Mucky fine sand
horizon E(46cm to 73cm)	Fine sand
horizon Btg(73cm to 203cm)	Fine sandy loam
Holopaw(15%)	
horizon A(0cm to 15cm)	Fine sand
horizon Eg(15cm to 127cm)	Fine sand
horizon Btg(127cm to 203cm)	Fine sandy loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 19 - Manatee, Floridana, and Holopaw soils, frequently flooded

Component: Manatee (61%)
The Manatee, flooded component makes up 61 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains on marine terraces on coastal plains. The parent material consists of sandy and loamy marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is very poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is frequently flooded. It is not ponded. A seasonal zone of water saturation is at 0 inches during January, February, June, July, August, September, October, November, December. Organic matter content in the surface horizon is about 7 percent. Nonirrigated land capability classification is 7w. This soil meets hydric criteria. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 1 within 30 inches of the soil surface.

Component: Floridana (21%)
The Floridana, flooded component makes up 21 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains on marine terraces on coastal plains. The parent material consists of sandy and loamy marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is very poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is frequently flooded. It is not ponded. A seasonal zone of water saturation is at 0 inches during January, February, June, July, August, September, October, November, December. Organic matter content in the surface horizon is about 11 percent. Nonirrigated land capability classification is 5w. This soil meets hydric criteria. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 1 within 30 inches of the soil surface.

Component: Holopaw (15%)
The Holopaw, flooded component makes up 15 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains on marine terraces on coastal plains. The parent material consists of sandy and loamy marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is frequently flooded. It is not ponded. A seasonal zone of water saturation is at 0 inches during June, July, August, September. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 4w. This soil meets hydric criteria. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 1 within 30 inches of the soil surface.

Component: Basinger (3%)
Generated brief soil descriptions are created for major soil components. The Basinger, flooded soil is a minor component.

Map Unit 2 (0.13%)

Map Unit Name:	Archbold fine sand, 0 to 5 percent slopes
Bedrock Depth - Min:	null

Soil Information

Watertable Depth - Annual Min:	129cm
Drainage Class - Dominant:	Moderately well drained
Hydrologic Group - Dominant:	A - Soils in this group have low runoff potential when thoroughly wet. Water is transmitted freely through the soil.

Major components are printed below

Archbold(92%)

horizon A(0cm to 5cm)	Fine sand
horizon C(5cm to 203cm)	Fine sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 2 - Archbold fine sand, 0 to 5 percent slopes

Component: Archbold (92%)
The Archbold component makes up 92 percent of the map unit. Slopes are 0 to 5 percent. This component is on knolls on marine terraces on coastal plains, ridges on marine terraces on coastal plains. The parent material consists of eolian or sandy marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is very high. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 51 inches during June, July, August, September, October, November. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 6s. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 1 within 30 inches of the soil surface.

Component: Pomello (8%)
Generated brief soil descriptions are created for major soil components. The Pomello soil is a minor component.

Map Unit 20 (6.63%)

Map Unit Name:	Myakka and EauGallie fine sands
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	31cm
Drainage Class - Dominant:	Poorly drained
Hydrologic Group - Dominant:	A/D - These soils have low runoff potential when drained and high runoff potential when undrained.

Major components are printed below

Myakka(58%)

horizon A(0cm to 12cm)	Fine sand
horizon E(12cm to 71cm)	Fine sand
horizon Bh(71cm to 115cm)	Fine sand
horizon C(115cm to 203cm)	Fine sand

EauGallie(32%)

horizon A(0cm to 12cm)	Fine sand
horizon E(12cm to 46cm)	Fine sand
horizon Bh(46cm to 76cm)	Fine sand
horizon E'(76cm to 105cm)	Fine sand
horizon Btg(105cm to 152cm)	Sandy clay loam
horizon Cg(152cm to 203cm)	Loamy sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 20 - Myakka and EauGallie fine sands

Component: Myakka (58%)
The Myakka component makes up 58 percent of the map unit. Slopes are 0 to 2 percent. This component is on flatwoods on marine terraces on coastal plains. The parent material consists of sandy marine deposits. Depth to a root restrictive layer is greater than 60

inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during June, July, August, September. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 4w. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 1 within 30 inches of the soil surface.

Component: EauGallie (32%)
The EauGallie component makes up 32 percent of the map unit. Slopes are 0 to 2 percent. This component is on flatwoods on marine terraces on coastal plains. The parent material consists of sandy and loamy marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during June, July, August, September. Organic matter content in the surface horizon is about 5 percent. Nonirrigated land capability classification is 4w. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 1 within 30 inches of the soil surface.

Component: Basinger (5%)
Generated brief soil descriptions are created for major soil components. The Basinger soil is a minor component.

Component: Pompano (5%)
Generated brief soil descriptions are created for major soil components. The Pompano, flooded soil is a minor component.

Map Unit 27 (4.01%)

Map Unit Name:	Pomello fine sand, 0 to 5 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	84cm
Drainage Class - Dominant:	Moderately well drained
Hydrologic Group - Dominant:	A - Soils in this group have low runoff potential when thoroughly wet. Water is transmitted freely through the soil.
Major components are printed below	
Pomello(91%)	
horizon A(0cm to 10cm)	Fine sand
horizon E(10cm to 140cm)	Fine sand
horizon Bh(140cm to 170cm)	Fine sand
horizon Bw(170cm to 203cm)	Fine sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 27 - Pomello fine sand, 0 to 5 percent slopes

Component: Pomello (91%)
The Pomello component makes up 91 percent of the map unit. Slopes are 0 to 5 percent. This component is on ridges, coastal plains. The parent material consists of sandy marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 33 inches during July, August, September, October, November. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 6s. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 0 within 30 inches of the soil surface.

Component: Myakka (4%)
Generated brief soil descriptions are created for major soil components. The Myakka, non-hydric soil is a minor component.

Component: Basinger (2%)
Generated brief soil descriptions are created for major soil components. The Basinger, hydric soil is a minor component.

Component: EauGallie (2%)
Generated brief soil descriptions are created for major soil components. The EauGallie, non-hydric soil is a minor component.

Soil Information

Component: Sparr (1%)
Generated brief soil descriptions are created for major soil components. The Sparr soil is a minor component.

Map Unit 28 (35.7%)

Map Unit Name:	Pompano fine sand, occasionally flooded
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	0cm
Drainage Class - Dominant:	Poorly drained
Hydrologic Group - Dominant:	A/D - These soils have low runoff potential when drained and high runoff potential when undrained.

Major components are printed below

Pompano(90%)

horizon A(0cm to 10cm)	Fine sand
horizon Cg(10cm to 203cm)	Fine sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 28 - Pompano fine sand, occasionally flooded

Component: Pompano (90%)
The Pompano, flooded component makes up 90 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains on marine terraces on coastal plains. The parent material consists of sandy marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is low. This soil is occasionally flooded. It is not ponded. A seasonal zone of water saturation is at 0 inches during July, August, September. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 4w. This soil meets hydric criteria. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 1 within 30 inches of the soil surface.

Component: Nittaw (10%)
Generated brief soil descriptions are created for major soil components. The Nittaw, flooded soil is a minor component.

Map Unit 29 (0.34%)

Map Unit Name:	St. Johns and EauGallie fine sands
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	31cm
Drainage Class - Dominant:	Poorly drained
Hydrologic Group - Dominant:	B/D - These soils have moderately low runoff potential when drained and high runoff potential when undrained.

Major components are printed below

St. Johns(57%)

horizon A(0cm to 30cm)	Fine sand
horizon E(30cm to 56cm)	Fine sand
horizon Bh(56cm to 137cm)	Fine sand
horizon C(137cm to 203cm)	Fine sand

EauGallie(36%)

horizon A(0cm to 8cm)	Fine sand
horizon E(8cm to 40cm)	Fine sand
horizon Bh(40cm to 89cm)	Fine sand
horizon E'(89cm to 96cm)	Fine sand
horizon Btg(96cm to 183cm)	Sandy clay loam
horizon Cg(183cm to 203cm)	Loamy sand

Component Description:

Soil Information

Minor map unit components are excluded from this report.

Map Unit: 29 - St. Johns and EauGallie fine sands

Component: St. Johns (57%)
The St. Johns component makes up 57 percent of the map unit. Slopes are 0 to 2 percent. This component is on flats on marine terraces on coastal plains. The parent material consists of sandy marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during June, July, August, September. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3w. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 1 within 30 inches of the soil surface.

Component: EauGallie (36%)
The EauGallie component makes up 36 percent of the map unit. Slopes are 0 to 2 percent. This component is on flats on marine terraces on coastal plains. The parent material consists of sandy and loamy marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during June, July, August, September. Organic matter content in the surface horizon is about 5 percent. Nonirrigated land capability classification is 4w. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 1 within 30 inches of the soil surface.

Component: Felda (7%)
Generated brief soil descriptions are created for major soil components. The Felda soil is a minor component.

Map Unit 3 (0.65%)

Map Unit Name:	Arents, 0 to 5 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	60cm
Drainage Class - Dominant:	Somewhat poorly drained
Hydrologic Group - Dominant:	A/D - These soils have low runoff potential when drained and high runoff potential when undrained.

Major components are printed below

Arents(100%)

horizon C1(0cm to 25cm)	Fine sand
horizon C2(25cm to 81cm)	Fine sand
horizon C3(81cm to 203cm)	Fine sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 3 - Arents, 0 to 5 percent slopes

Component: Arents (100%)
The Arents component makes up 100 percent of the map unit. Slopes are 0 to 5 percent. This component is on fills, rises on marine terraces on coastal plains. The parent material consists of altered marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 24 inches during June, July, August, September. Organic matter content in the surface horizon is about 0 percent. Nonirrigated land capability classification is 4s. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 1 within 30 inches of the soil surface.

Map Unit 31 (1.32%)

Map Unit Name:	Tavares-Millhopper fine sands, 0 to 5 percent slopes

Soil Information

Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	145cm
Drainage Class - Dominant:	Moderately well drained
Hydrologic Group - Dominant:	A - Soils in this group have low runoff potential when thoroughly wet. Water is transmitted freely through the soil.

Major components are printed below

Tavares(45%)	
horizon A(0cm to 15cm)	Fine sand
horizon C(15cm to 203cm)	Fine sand
Millhopper(41%)	
horizon A(0cm to 18cm)	Fine sand
horizon E(18cm to 115cm)	Fine sand
horizon Bt(115cm to 137cm)	Sandy loam
horizon Btg(137cm to 203cm)	Sandy clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 31 - Tavares-Millhopper complex, 0 to 5 percent slopes

Component: Tavares (63%)
The Tavares component makes up 63 percent of the map unit. Slopes are 0 to 5 percent. This component is on ridges on marine terraces on coastal plains. The parent material consists of eolian or sandy marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 57 inches during June, July, August, September, October, November, December. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 3s. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 1 within 30 inches of the soil surface.

Component: Millhopper (32%)
The Millhopper component makes up 32 percent of the map unit. Slopes are 0 to 5 percent. This component is on knolls on marine terraces on coastal plains. The parent material consists of sandy and loamy marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 51 inches during June, July, August, September, October. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 3s. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 1 within 30 inches of the soil surface.

Component: Candler (3%)
Generated brief soil descriptions are created for major soil components. The Candler soil is a minor component.

Component: Astatula (2%)
Generated brief soil descriptions are created for major soil components. The Astatula soil is a minor component.

Map Unit 34 (5.8%)

Map Unit Name:	Urban land
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	null
Hydrologic Group - Dominant:	null

Major components are printed below

Component Description:

Minor map unit components are excluded from this report.

Soil Information

Map Unit: 34 - Urban land, 0 to 2 percent slopes

Component: Urban land (85%)
Generated brief soil descriptions are created for major soil components. The Urban land is a miscellaneous area.

Component: St. Augustine (3%)
Generated brief soil descriptions are created for major soil components. The St. Augustine soil is a minor component.

Component: Matlacha (3%)
Generated brief soil descriptions are created for major soil components. The Matlacha soil is a minor component.

Component: Boca (1%)
Generated brief soil descriptions are created for major soil components. The Boca soil is a minor component.

Component: Immokalee (1%)
Generated brief soil descriptions are created for major soil components. The Immokalee soil is a minor component.

Component: Paola (1%)
Generated brief soil descriptions are created for major soil components. The Paola soil is a minor component.

Component: Adamsville (1%)
Generated brief soil descriptions are created for major soil components. The Adamsville soil is a minor component.

Component: EauGallie (1%)
Generated brief soil descriptions are created for major soil components. The EauGallie soil is a minor component.

Component: Hallandale (1%)
Generated brief soil descriptions are created for major soil components. The Hallandale soil is a minor component.

Component: Myakka (1%)
Generated brief soil descriptions are created for major soil components. The Myakka soil is a minor component.

Component: Apopka (1%)
Generated brief soil descriptions are created for major soil components. The Apopka soil is a minor component.

Component: Pomello (1%)
Generated brief soil descriptions are created for major soil components. The Pomello soil is a minor component.

Map Unit 37 (0.95%)

Map Unit Name:	St. Johns fine sand
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	15cm
Drainage Class - Dominant:	Poorly drained
Hydrologic Group - Dominant:	B/D - These soils have moderately low runoff potential when drained and high runoff potential when undrained.

Major components are printed below

St. Johns(60%)	
horizon A(0cm to 30cm)	Fine sand
horizon E(30cm to 61cm)	Fine sand
horizon Bh(61cm to 112cm)	Fine sand
horizon C(112cm to 203cm)	Fine sand
St. Johns(30%)	
horizon A(0cm to 30cm)	Fine sand
horizon E(30cm to 61cm)	Fine sand
horizon Bh(61cm to 112cm)	Fine sand
horizon C(112cm to 203cm)	Fine sand

Component Description:

Soil Information

Minor map unit components are excluded from this report.

Map Unit: 37 - St. Johns fine sand

Component: St. Johns (60%)
The St. Johns, non-hydric component makes up 60 percent of the map unit. Slopes are 0 to 2 percent. This component is on flats on marine terraces on coastal plains. The parent material consists of sandy marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 8 inches during July, August, September. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3w. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 1 within 30 inches of the soil surface.

Component: St. Johns (30%)
The St. Johns, hydric component makes up 30 percent of the map unit. Slopes are 0 to 2 percent. This component is on flats on marine terraces on coastal plains. The parent material consists of sandy marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 6 inches during July, August, September. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3w. This soil meets hydric criteria. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 1 within 30 inches of the soil surface.

Component: Wabasso (5%)
Generated brief soil descriptions are created for major soil components. The Wabasso soil is a minor component.

Component: Immokalee (5%)
Generated brief soil descriptions are created for major soil components. The Immokalee, non-hydric soil is a minor component.

Map Unit 42 (1.03%)

Map Unit Name:	Sanibel muck
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	0cm
Drainage Class - Dominant:	Very poorly drained
Hydrologic Group - Dominant:	A/D - These soils have low runoff potential when drained and high runoff potential when undrained.

Major components are printed below

Sanibel(65%)	
horizon Oa(0cm to 28cm)	Muck
horizon A(28cm to 38cm)	Fine sand
horizon C(38cm to 203cm)	Fine sand
Sanibel(25%)	
horizon Oa(0cm to 28cm)	Muck
horizon A(28cm to 38cm)	Fine sand
horizon C(38cm to 203cm)	Fine sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 42 - Sanibel muck

Component: Sanibel (65%)
The Sanibel, undrained component makes up 65 percent of the map unit. Slopes are 0 to 1 percent. This component is on marshes on marine terraces on coastal plains. The parent material consists of thin organic material over sandy marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is very poorly drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during June, July, August, September, October. Organic matter content in the surface horizon is about 35 percent. Nonirrigated land capability classification is 7w. This soil meets hydric criteria. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 1

within 30 inches of the soil surface.

Component: Sanibel (25%)
The Sanibel, drained component makes up 25 percent of the map unit. Slopes are 0 to 1 percent. This component is on depressions on marine terraces on coastal plains. The parent material consists of thin organic material over sandy marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is very poorly drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is frequently ponded. A seasonal zone of water saturation is at 18 inches (depth from the mineral surface is 7 inches) during January, February, March, April, May, June, July, August, September, October, November, December. Organic matter content in the surface horizon is about 35 percent. Nonirrigated land capability classification is 3w. This soil meets hydric criteria. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 1 within 30 inches of the soil surface.

Component: Hontoon (5%)
Generated brief soil descriptions are created for major soil components. The Hontoon, undrained soil is a minor component.

Component: Samsula (5%)
Generated brief soil descriptions are created for major soil components. The Samsula soil is a minor component.

Map Unit 44 (27.53%)

Map Unit Name:	Smyrna-Smyrna, wet, fine sand, 0 to 2 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	8cm
Drainage Class - Dominant:	Poorly drained
Hydrologic Group - Dominant:	A/D - These soils have low runoff potential when drained and high runoff potential when undrained.
Major components are printed below	
Smyrna(76%)	
horizon A(0cm to 10cm)	Fine sand
horizon E(10cm to 43cm)	Fine sand
horizon Bh(43cm to 69cm)	Loamy fine sand
horizon C(69cm to 203cm)	Fine sand
Smyrna(20%)	
horizon A(0cm to 10cm)	Fine sand
horizon E(10cm to 43cm)	Fine sand
horizon Bh(43cm to 69cm)	Loamy fine sand
horizon C(69cm to 203cm)	Fine sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 44 - Smyrna-Smyrna, wet, fine sand, 0 to 2 percent slopes

Component: Smyrna (76%)
The Smyrna, non-hydric component makes up 76 percent of the map unit. Slopes are 0 to 2 percent. This component is on flatwoods on marine terraces on coastal plains. The parent material consists of sandy marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during June, July, August, September. Organic matter content in the surface horizon is about 7 percent. Nonirrigated land capability classification is 4w. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 0 within 30 inches of the soil surface.

Component: Smyrna (20%)
The Smyrna, hydric component makes up 20 percent of the map unit. Slopes are 0 to 2 percent. This component is on flatwoods on marine terraces on coastal plains. The parent material consists of sandy marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not

ponded. A seasonal zone of water saturation is at 3 inches during June, July, August, September. Organic matter content in the surface horizon is about 7 percent. Nonirrigated land capability classification is 4w. This soil meets hydric criteria. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 0 within 30 inches of the soil surface.

Component: Basinger (2%)
Generated brief soil descriptions are created for major soil components. The Basinger, depressional soil is a minor component.

Component: EauGallie (1%)
Generated brief soil descriptions are created for major soil components. The EauGallie, hydric soil is a minor component.

Component: Pomona (1%)
Generated brief soil descriptions are created for major soil components. The Pomona, non-hydric soil is a minor component.

Map Unit 54 (0.8%)

Map Unit Name:	Zolfo fine sand
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	84cm
Drainage Class - Dominant:	Somewhat poorly drained
Hydrologic Group - Dominant:	A - Soils in this group have low runoff potential when thoroughly wet. Water is transmitted freely through the soil.

Major components are printed below

Zolfo(86%)

horizon A(0cm to 13cm)	Fine sand
horizon E(13cm to 140cm)	Fine sand
horizon Bh(140cm to 203cm)	Fine sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 54 - Zolfo fine sand, 0 to 2 percent slopes

Component: Zolfo (85%)
The Zolfo component makes up 85 percent of the map unit. Slopes are 0 to 2 percent. This component is on flatwoods on marine terraces on coastal plains. The parent material consists of sandy marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 30 inches during June, July, August, September, October, November. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 3w. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 1 within 30 inches of the soil surface.

Component: Myakka (5%)
Generated brief soil descriptions are created for major soil components. The Myakka soil is a minor component.

Component: Millhopper (4%)
Generated brief soil descriptions are created for major soil components. The Millhopper soil is a minor component.

Component: Tavares (4%)
Generated brief soil descriptions are created for major soil components. The Tavares soil is a minor component.

Component: Malabar (2%)
Generated brief soil descriptions are created for major soil components. The Malabar soil is a minor component.

Map Unit 99 (0.8%)

Map Unit Name:	Water

Soil Information

No more attributes available for this map unit

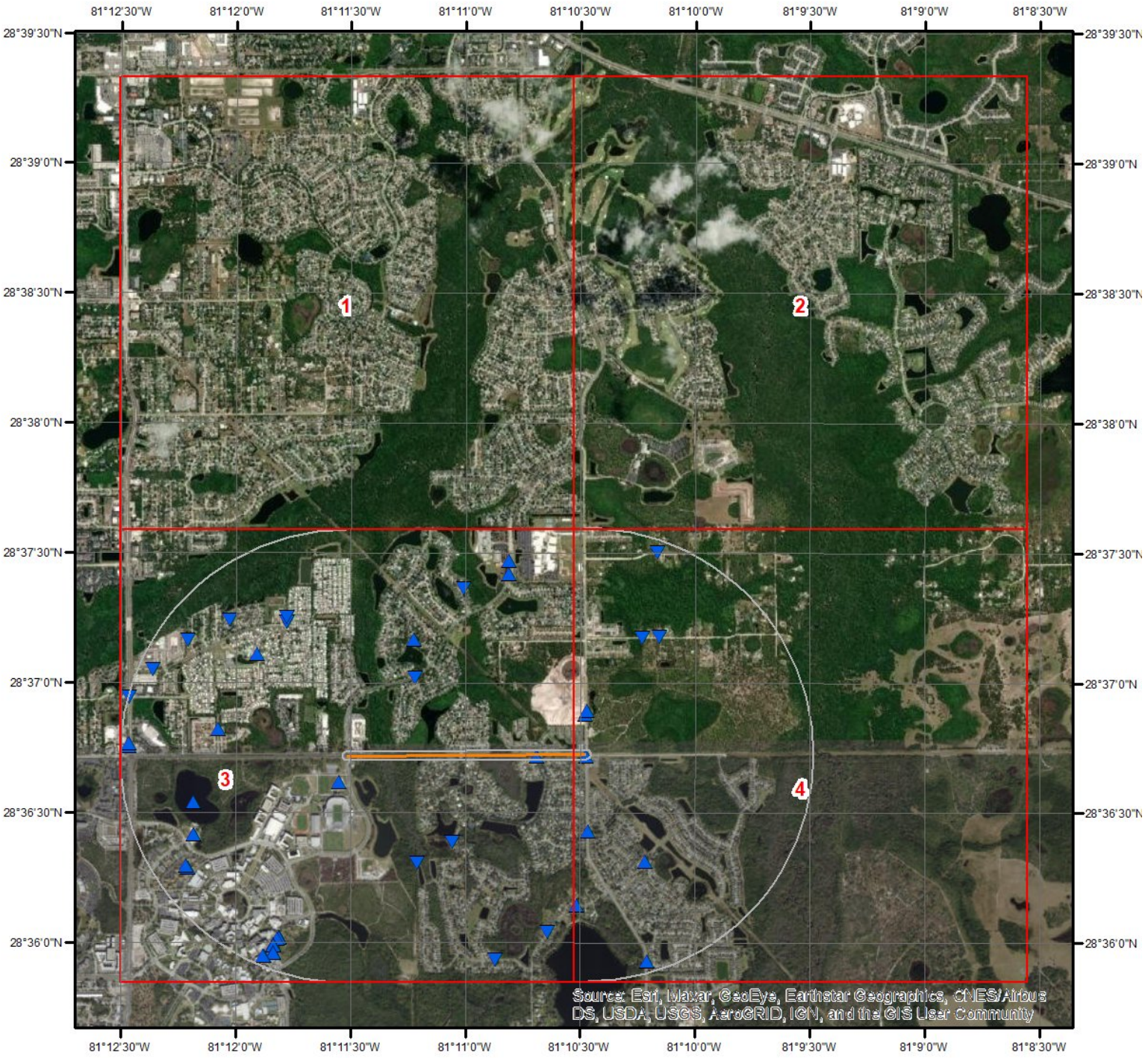
Component Description:

Minor map unit components are excluded from this report.

Map Unit: 99 - Water

Component: Water (100%)
Generated brief soil descriptions are created for major soil components. The Water is a miscellaneous area.

Wells and Additional Sources



Wells & Additional Sources

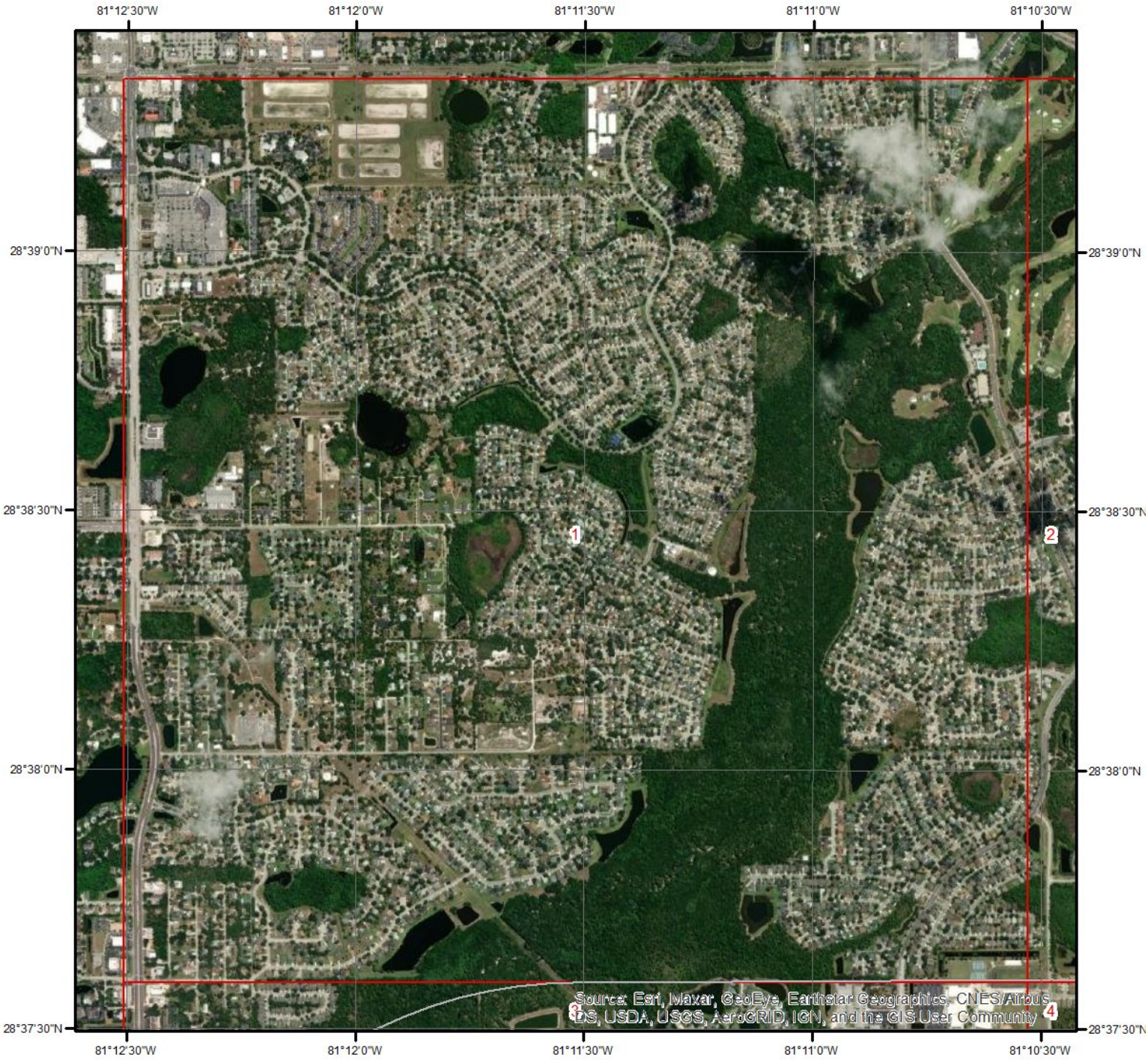
N

0 0.3 0.6 1.2 Miles

- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- OGW Sites with Higher Elevation
- OGW Sites with Same Elevation
- OGW Sites with Lower Elevation
- OGW Sites with Unknown Elevation

ERIS

Wells and Additional Sources



Wells & Additional Sources - Page 1

N

0 0.15 0.3 0.6 Miles

- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- OGW Sites with Higher Elevation
- OGW Sites with Same Elevation
- OGW Sites with Lower Elevation
- OGW Sites with Unknown Elevation

ERIS

Wells and Additional Sources



Wells & Additional Sources - Page 2

N

0 0.15 0.3 0.6 Miles

- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- OGW Sites with Higher Elevation
- OGW Sites with Same Elevation
- OGW Sites with Lower Elevation
- OGW Sites with Unknown Elevation

ERIS

Wells and Additional Sources



Wells & Additional Sources - Page 3

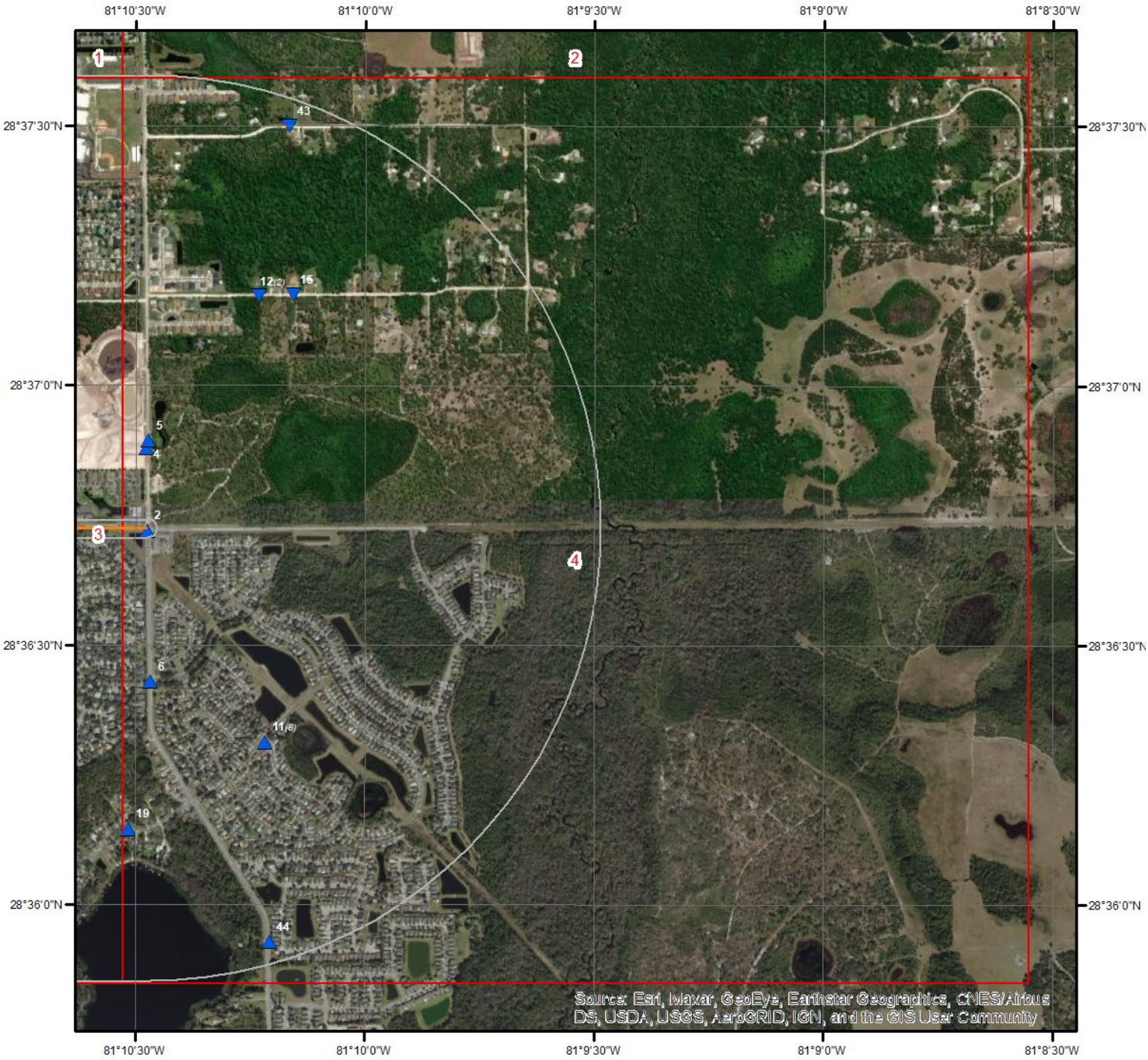
N

0 0.15 0.3 0.6 Miles

- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- OGW Sites with Higher Elevation
- OGW Sites with Same Elevation
- OGW Sites with Lower Elevation
- OGW Sites with Unknown Elevation

ERIS

Wells and Additional Sources



Wells & Additional Sources - Page 4

N

0 0.15 0.3 0.6 Miles

- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- OGW Sites with Higher Elevation
- OGW Sites with Same Elevation
- OGW Sites with Lower Elevation
- OGW Sites with Unknown Elevation

ERIS

Wells and Additional Sources Summary

Federal Sources

Public Water Systems Violations and Enforcement Data

Map Key	ID	Distance (ft)	Direction
	No records found		

Safe Drinking Water Information System (SDWIS)

Map Key	PWS ID	Distance (ft)	Direction
14	FL3590988	3177.20	WNW

USGS National Water Information System

Map Key	ID	Distance (ft)	Direction
	No records found		

State Sources

Florida Subsidence Incident Reports

Map Key	ID	Distance (ft)	Direction
	No records found		

Oil and Gas Wells

Map Key	ID	Distance (ft)	Direction
	No records found		

Public Water Supply Wells

Map Key	Gis Well ID	Distance (ft)	Direction
16	7679	3413.57	NW
20	7678	3511.54	NW
29	6521	4507.36	SW
37	6520	4715.53	SW
40	6519	4878.60	SW
46	6518	5044.74	SW

Underground Injection Control Wells

Map Key	ID	Distance (ft)	Direction
	No records found		

Water Use Permits Sites - South Florida Water Management District

Wells and Additional Sources Summary

Map Key	ID	Distance (ft)	Direction
	No records found		

Water Well Completions - Northwest Florida Water Management District

Map Key	ID	Distance (ft)	Direction
	No records found		

Water Well Completions - St. Johns River Water Management District

Map Key	Permit	Distance (ft)	Direction
1	-	28.82	E
2	-	29.96	E
4	-	933.51	ENE
5	-	1019.70	ENE
6	-	1788.52	ESE
7	-	1796.43	NW
7	-	1796.43	NW
7	-	1796.43	NW
8	-	2025.39	S
8	-	2025.39	S
8	-	2025.39	S
9	-	2519.69	SSW
10	-	2696.19	NNW
10	-	2696.19	NNW
10	-	2696.19	NNW
10	-	2696.19	NNW
10	-	2696.19	NNW
10	-	2696.19	NNW
10	-	2696.19	NNW
11	-	2845.61	ESE
11	-	2845.61	ESE
11	-	2845.61	ESE
11	-	2845.61	ESE
11	-	2845.61	ESE
11	-	2845.61	ESE
11	-	2845.61	ESE
11	-	2845.61	ESE
12	-	2994.07	ENE
12	-	2994.07	ENE
13	-	3060.59	W
15	-	3203.11	ENE
19	-	3505.95	SE
21	-	3726.28	W
21	-	3726.28	W
21	-	3726.28	W
22	-	3867.17	N
22	-	3867.17	N
23	127637-1	3996.40	WSW
23	127637-1	3996.40	WSW
25	-	4142.16	SSE
26	-	4171.96	WNW
27	-	4216.08	NNE
27	-	4216.08	NNE
30	147919-1	4512.55	SW
30	147919-1	4512.55	SW
31	-	4520.78	NNE
32	-	4525.78	WSW
33	-	4538.59	WSW
33	-	4538.59	WSW
33	-	4538.59	WSW

33	-	4538.59	WSW
33	-	4538.59	WSW
33	-	4538.59	WSW
33	-	4538.59	WSW
33	-	4538.59	WSW
35	-	4577.80	WNW
35	-	4577.80	WNW
35	-	4577.80	WNW
35	-	4577.80	WNW
35	-	4577.80	WNW
35	-	4577.80	WNW
35	-	4577.80	WNW
35	-	4577.80	WNW
35	-	4577.80	WNW
35	-	4577.80	WNW
35	-	4577.80	WNW
35	-	4577.80	WNW
35	-	4577.80	WNW
35	-	4577.80	WNW
35	-	4577.80	WNW
36	153094-1	4715.44	SW
39	-	4783.68	S
42	-	4935.51	WNW
43	-	4969.85	NE
44	-	5028.63	SE
45	149760-1	5044.34	SW
47	-	5074.66	W
47	-	5074.66	W
47	-	5074.66	W
47	-	5074.66	W
48	-	5078.22	W
49	-	5257.64	W

Water Well Completions - Suwanee River Water Management District

Map Key	ID	Distance (ft)	Direction
	No records found		

Water Well Construction Permits

Map Key	Permit No	Distance (ft)	Direction
3	70503-1	641.48	WSW
24	126357-1	4009.56	WSW
24	127637-1	4009.56	WSW
34	147919-1	4543.85	SW

Water Well Construction Permits - Southwest Florida Water Management District

Map Key	ID	Distance (ft)	Direction
	No records found		

Water Wells - Suwanee River Water Management District

Map Key	ID	Distance (ft)	Direction
	No records found		

Well Surveillance Program Water Wells

Wells and Additional Sources Summary

Map Key	Permit No	Distance (ft)	Direction
16	3590988	3413.57	NW
17	3590988	3415.44	NW
18	3590988	3505.78	NW
28	3480409	4504.64	SW
38	3480409	4742.67	SW
41	3480409	4896.95	SW
45	3480409	5044.34	SW

Safe Drinking Water Information System (SDWIS)

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
14	WNW	0.60	3,177.20	54.89	SDWIS

PWS ID:	FL3590988
PWS Type:	Community water system
No of Facilities:	4
No of Violations:	23
No of Site Visits:	24
Cities Served:	OVIEDO
Counties Served:	Seminole
Population Served Count:	1,476
Primacy Agency:	Florida
EPA Region:	Region 4

Public Water Supply Wells

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
16	NW	0.65	3,413.57	51.16	PWSW

PWS Status:	ACTIVE	Well Name:	WELL #2
PWS Name:	PALM VALLEY MOBILE HOME PARK	Fluwid:	AAH7698
PWS City:	OVIEDO	Well Status:	ACTIVE
PWS Zip5:	32765	WellHghtAbvElipsd:	0.032
PWS Type Code:	C	WellCoordDate:	22-May-2007
PWS Type:	COMMUNITY	Well Plant ID:	1
Well Lat Dd:	28	Well Year Drilled:	1979
Well Lat Mm:	37	Well Depth Drilled:	455
Well Lat Ss:	13.866	WellAvilbltyUsage:	PERMANENT
Well Long Dd:	81	Object id:	7679
Well Long Mm:	11	Gis Well ID:	7679
Well Long Ss:	46.747	Pws ID:	3590988
PWS Subpart H:	NO	Pws Primary Phone:	4073660733
PWS Operator:	US WATER SERVICES CORP	Well Method:	DPHO
PWS Pop Served:	1476	Well Datum:	83
PWSLastSanSurvey:	26-Jun-2020	Well ID:	2
PWS DesignCapacity:	900000	X:	-81.1963186111087
PWS PrmrySrvcArea:	MOBILE HOME PARK	Y:	28.6205183333326
Pws Cnp County ID:	59	WellUdrDrctInflunc:	NO
Pws Oc1 Office ID:	CD	Aquifer:	Floridan Aquifer
LctnsPwsLocationID:	17349		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
20	NW	0.67	3,511.54	49.82	PWSW

Wells and Additional Sources Detail Report

PWS Status:	ACTIVE	Well Name:	WELL 1
PWS Name:	PALM VALLEY MOBILE HOME PARK	Fluwid:	AAC0773
PWS City:	OVIEDO	Well Status:	ACTIVE
PWS Zip5:	32765	WellHghtAbvElipsd:	0.032
PWS Type Code:	C	WellCoordDate:	22-May-2007
PWS Type:	COMMUNITY	Well Plant ID:	1
Well Lat Dd:	28	Well Year Drilled:	1972
Well Lat Mm:	37	Well Depth Drilled:	400
Well Lat Ss:	14.959	WellAvilbltyUsage:	PERMANENT
Well Long Dd:	81	Object id:	7678
Well Long Mm:	11	Gis Well ID:	7678
Well Long Ss:	46.714	Pws ID:	3590988
PWS Subpart H:	NO	Pws Primary Phone:	4073660733
PWS Operator:	US WATER SERVICES CORP	Well Method:	DPHO
PWS Pop Served:	1476	Well Datum:	83
PWSLastSanSurvey:	26-Jun-2020	Well ID:	1
PWS DesignCapacity:	900000	X:	-81.1963094444411
PWS PrmrySrvcArea:	MOBILE HOME PARK	Y:	28.6208219444487
Pws Cnp County ID:	59	WellUdrDrctInflunc:	NO
Pws Oc1 Office ID:	CD	Aquifer:	Floridan Aquifer
LctnsPwsLocationID:	17348		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
29	SW	0.85	4,507.36	61.89	PWSW

PWS Status:	ACTIVE	Well Name:	WELL#4 12" 410' 600GPM
PWS Name:	UNIVERSITY OF CENTRAL FLORIDA	Fluwid:	
PWS City:	ORLANDO	Well Status:	ACTIVE
PWS Zip5:	32816	WellHghtAbvElipsd:	0
PWS Type Code:	C	WellCoordDate:	20-Jul-2009
PWS Type:	COMMUNITY	Well Plant ID:	1
Well Lat Dd:	28	Well Year Drilled:	1976
Well Lat Mm:	36	Well Depth Drilled:	410
Well Lat Ss:	1.27	WellAvilbltyUsage:	PERMANENT
Well Long Dd:	81	Object id:	6521
Well Long Mm:	11	Gis Well ID:	6521
Well Long Ss:	48.65	Pws ID:	3480409
PWS Subpart H:	NO	Pws Primary Phone:	4078232471
PWS Operator:		Well Method:	DPHO
PWS Pop Served:	44108	Well Datum:	83
PWSLastSanSurvey:	27-Mar-2018	Well ID:	4
PWS DesignCapacity:	3024000	X:	-81.1968472222274
PWS PrmrySrvcArea:	UNIVERSITY WITH RESIDENCY	Y:	28.6003527777796
Pws Cnp County ID:	48	WellUdrDrctInflunc:	NO

Pws Oc1 Office ID:	CD	Aquifer:	Floridan Aquifer
LctnsPwsLocationID:	50786		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
37	SW	0.89	4,715.53	60.30	PWSW

PWS Status:	ACTIVE	Well Name:	WELL#3 12" 405' 500GPM
PWS Name:	UNIVERSITY OF CENTRAL FLORIDA	Fluwid:	AAE8581
PWS City:	ORLANDO	Well Status:	ACTIVE
PWS Zip5:	32816	WellHghtAbvElipsd:	0
PWS Type Code:	C	WellCoordDate:	20-Jul-2009
PWS Type:	COMMUNITY	Well Plant ID:	1
Well Lat Dd:	28	Well Year Drilled:	1970
Well Lat Mm:	35	Well Depth Drilled:	405
Well Lat Ss:	59.5	WellAvilbltyUsage:	PERMANENT
Well Long Dd:	81	Object id:	6520
Well Long Mm:	11	Gis Well ID:	6520
Well Long Ss:	49.95	Pws ID:	3480409
PWS Subpart H:	NO	Pws Primary Phone:	4078232471
PWS Operator:		Well Method:	DPHO
PWS Pop Served:	44108	Well Datum:	83
PWSLastSanSurvey:	27-Mar-2018	Well ID:	3
PWS DesignCapacity:	3024000	X:	-81.1972083333363
PWS PrmrySrvcArea:	UNIVERSITY WITH RESIDENCY	Y:	28.5998611111123
Pws Cnp County ID:	48	WellUdrDrctInflunc:	NO
Pws Oc1 Office ID:	CD	Aquifer:	Floridan Aquifer
LctnsPwsLocationID:	50785		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
40	SW	0.92	4,878.60	60.04	PWSW

PWS Status:	ACTIVE	Well Name:	WELL#2 12" 400' 500GPM
PWS Name:	UNIVERSITY OF CENTRAL FLORIDA	Fluwid:	AAE8583
PWS City:	ORLANDO	Well Status:	ACTIVE
PWS Zip5:	32816	WellHghtAbvElipsd:	0
PWS Type Code:	C	WellCoordDate:	20-Jul-2009
PWS Type:	COMMUNITY	Well Plant ID:	1
Well Lat Dd:	28	Well Year Drilled:	1967
Well Lat Mm:	35	Well Depth Drilled:	400
Well Lat Ss:	57.7734	WellAvilbltyUsage:	PERMANENT
Well Long Dd:	81	Object id:	6519
Well Long Mm:	11	Gis Well ID:	6519
Well Long Ss:	49.9492	Pws ID:	3480409
PWS Subpart H:	NO	Pws Primary Phone:	4078232471
PWS Operator:		Well Method:	DPHO

PWS Pop Served:	44108	Well Datum:	83
PWSLastSanSurvey:	27-Mar-2018	Well ID:	2
PWS DesignCapacity:	3024000	X:	-81.1972081111155
PWS PrmrySrvcArea:	UNIVERSITY WITH RESIDENCY	Y:	28.5993815000052
Pws Cnp County ID:	48	WellUdrDrctInflunc:	NO
Pws Oc1 Office ID:	CD	Aquifer:	Floridan Aquifer
LctnsPwsLocationID:	75030		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
46	SW	0.96	5,044.74	67.79	PWSW

PWS Status:	ACTIVE	Well Name:	WELL#1 12"/400' 500GPM
PWS Name:	UNIVERSITY OF CENTRAL FLORIDA	Fluwid:	AAE8582
PWS City:	ORLANDO	Well Status:	ACTIVE
PWS Zip5:	32816	WellHghtAbvElipsd:	0
PWS Type Code:	C	WellCoordDate:	20-Jul-2009
PWS Type:	COMMUNITY	Well Plant ID:	1
Well Lat Dd:	28	Well Year Drilled:	1967
Well Lat Mm:	35	Well Depth Drilled:	400
Well Lat Ss:	56.96	WellAvilbltyUsage:	PERMANENT
Well Long Dd:	81	Object id:	6518
Well Long Mm:	11	Gis Well ID:	6518
Well Long Ss:	52.7	Pws ID:	3480409
PWS Subpart H:	NO	Pws Primary Phone:	4078232471
PWS Operator:		Well Method:	DPHO
PWS Pop Served:	44108	Well Datum:	83
PWSLastSanSurvey:	27-Mar-2018	Well ID:	1
PWS DesignCapacity:	3024000	X:	-81.1979722222242
PWS PrmrySrvcArea:	UNIVERSITY WITH RESIDENCY	Y:	28.5991555555577
Pws Cnp County ID:	48	WellUdrDrctInflunc:	NO
Pws Oc1 Office ID:	CD	Aquifer:	Floridan Aquifer
LctnsPwsLocationID:	50783		

Water Well Completions - St. Johns River Water Management District

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
1	E	0.01	28.82	54.53	WATER WELLS

Permit:	-	Static Water Lvl Ft:	22
Legacy No:	-	Contractor License:	-
Station ID:	309469	Contractor Name:	-
Compliance No:	1026771	Driller Name:	Michael E. Burk?
Well Use:	-	County:	Orange
Type of Work:	-	Location State:	FL
Casing Depth:	0	Section:	35
Total Depth:	365	Township:	21S

Diameter:	0	Range:	31E
Completion Date:	03/22/1993	Latitude:	283643.112268
Issue Date:	-	Longitude:	811041.381436
Well Street Address:	1600 Mcculloch Rd., Oviedo, FL		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1832059		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
2	E	0.01	29.96	59.07	WATER WELLS

Permit:	-	Static Water Lvl Ft:	3
Legacy No:	-	Contractor License:	-
Station ID:	90278	Contractor Name:	-
Compliance No:	541567	Driller Name:	MIKE BURK
Well Use:	-	County:	Orange
Type of Work:	-	Location State:	-
Casing Depth:	132	Section:	33
Total Depth:	205	Township:	21S
Diameter:	4	Range:	31E
Completion Date:	09/29/2001	Latitude:	283643.180956
Issue Date:	-	Longitude:	811028.488216
Well Street Address:	1100 MCGULLOCH RD		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1471955		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
4	ENE	0.18	933.51	55.23	WATER WELLS

Permit:	-	Static Water Lvl Ft:	24
Legacy No:	-	Contractor License:	-
Station ID:	109244	Contractor Name:	-
Compliance No:	766126	Driller Name:	David Steward
Well Use:	Other	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	96	Section:	36
Total Depth:	120	Township:	21S
Diameter:	4	Range:	31E
Completion Date:	02/11/1997	Latitude:	283652.723224
Issue Date:	-	Longitude:	811028.614144
Well Street Address:	3820 Old Lockwood Road		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1487013		

Wells and Additional Sources Detail Report

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
5	ENE	0.19	1,019.70	54.89	WATER WELLS

Permit:	-	Static Water Lvl Ft:	26
Legacy No:	-	Contractor License:	-
Station ID:	108951	Contractor Name:	-
Compliance No:	765810	Driller Name:	Timothy Myers
Well Use:	-	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	100	Section:	36
Total Depth:	200	Township:	21S
Diameter:	4	Range:	31E
Completion Date:	04/13/1999	Latitude:	283653.577612
Issue Date:	-	Longitude:	811028.309908
Well Street Address:	3795 Old Lockwood Rd		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1485738		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
6	ESE	0.34	1,788.52	63.15	WATER WELLS

Permit:	-	Static Water Lvl Ft:	0
Legacy No:	-	Contractor License:	-
Station ID:	173637	Contractor Name:	-
Compliance No:	838741	Driller Name:	?
Well Use:	Other	County:	Orange
Type of Work:	-	Location State:	-
Casing Depth:	0	Section:	14
Total Depth:	0	Township:	22S
Diameter:	0	Range:	31E
Completion Date:	02/25/2000	Latitude:	283625.766964
Issue Date:	-	Longitude:	811028.018524
Well Street Address:	Tanner Road		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1542726		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
7	NW	0.34	1,796.43	52.90	WATER WELLS

Permit:	-	Static Water Lvl Ft:	0
Legacy No:	-	Contractor License:	-
Station ID:	90362	Contractor Name:	-

Wells and Additional Sources Detail Report

Compliance No:	541651	Driller Name:	DAVID A. STEWART, JR.
Well Use:	-	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	0	Section:	24
Total Depth:	0	Township:	21S
Diameter:	0	Range:	31E
Completion Date:	04/11/2001	Latitude:	283700.991632
Issue Date:	-	Longitude:	811113.263432
Well Street Address:	LOCKWOOD BLVD.		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1471219		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
7	NW	0.34	1,796.43	52.90	WATER WELLS

Permit:	-	Static Water Lvl Ft:	0
Legacy No:	-	Contractor License:	-
Station ID:	173345	Contractor Name:	-
Compliance No:	838405	Driller Name:	Tim Simmons?
Well Use:	Other	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	0	Section:	35
Total Depth:	0	Township:	21S
Diameter:	0	Range:	31E
Completion Date:	12/05/2000	Latitude:	283700.991632
Issue Date:	-	Longitude:	811113.263432
Well Street Address:	Lockwood Blvd		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1541009		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
7	NW	0.34	1,796.43	52.90	WATER WELLS

Permit:	-	Static Water Lvl Ft:	20
Legacy No:	-	Contractor License:	-
Station ID:	173250	Contractor Name:	-
Compliance No:	838310	Driller Name:	David A. Stewart, Jr. 30265?
Well Use:	-	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	83	Section:	24
Total Depth:	110	Township:	21S
Diameter:	4	Range:	31E
Completion Date:	06/13/2000	Latitude:	283700.991632

Issue Date:	-	Longitude:	811113.263432
Well Street Address:	Lockwood Blvd		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1544397		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
8	S	0.38	2,025.39	51.76	WATER WELLS

Permit:	-	Static Water Lvl Ft:	25
Legacy No:	-	Contractor License:	-
Station ID:	410797	Contractor Name:	-
Compliance No:	1172013	Driller Name:	Steve Young
Well Use:	Irrigation - Landscape	County:	Orange
Type of Work:	-	Location State:	FL
Casing Depth:	105	Section:	2
Total Depth:	120	Township:	22S
Diameter:	0	Range:	Orange
Completion Date:	06/13/2011	Latitude:	283623.1984
Issue Date:	-	Longitude:	811103.516
Well Street Address:	4632 WARRINGTON DR; UN-INCORPORATED; FL - 32826		
Documents:	Supporting Document		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_2326078		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
8	S	0.38	2,025.39	51.76	WATER WELLS

Permit:	-	Static Water Lvl Ft:	25
Legacy No:	-	Contractor License:	-
Station ID:	410797	Contractor Name:	-
Compliance No:	1172013	Driller Name:	Steve Young
Well Use:	Irrigation - Landscape	County:	Orange
Type of Work:	-	Location State:	FL
Casing Depth:	105	Section:	2
Total Depth:	120	Township:	22S
Diameter:	0	Range:	Orange
Completion Date:	06/13/2011	Latitude:	283623.1984
Issue Date:	-	Longitude:	811103.516
Well Street Address:	4632 WARRINGTON DR; UN-INCORPORATED; FL - 32826		
Documents:	Map		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_2326079		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
8	S	0.38	2,025.39	51.76	WATER WELLS

Permit:	-	Static Water Lvl Ft:	25
Legacy No:	-	Contractor License:	-
Station ID:	410797	Contractor Name:	-
Compliance No:	1172013	Driller Name:	Steve Young
Well Use:	Irrigation - Landscape	County:	Orange
Type of Work:	-	Location State:	FL
Casing Depth:	105	Section:	2
Total Depth:	120	Township:	22S
Diameter:	0	Range:	31E
Completion Date:	06/13/2011	Latitude:	283623.1984
Issue Date:	-	Longitude:	811103.516
Well Street Address:	4632 WARRINGTON DR; UN-INCORPORATED; FL - 32826		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_2326080		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
9	SSW	0.48	2,519.69	46.61	WATER WELLS

Permit:	-	Static Water Lvl Ft:	30
Legacy No:	-	Contractor License:	-
Station ID:	351123	Contractor Name:	-
Compliance No:	1068507	Driller Name:	?
Well Use:	-	County:	Orange
Type of Work:	-	Location State:	FL
Casing Depth:	0	Section:	2
Total Depth:	100	Township:	22S
Diameter:	0	Range:	31E
Completion Date:	12/27/1991	Latitude:	283618.245664
Issue Date:	-	Longitude:	811112.572772
Well Street Address:	4729 Rolling Oaksdr Highland Oaks Lot #6, Orl, FL		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_1874243		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
10	NNW	0.51	2,696.19	55.18	WATER WELLS

Permit:	-	Static Water Lvl Ft:	35
Legacy No:	-	Contractor License:	-
Station ID:	246398	Contractor Name:	-
Compliance No:	963591	Driller Name:	?

Wells and Additional Sources Detail Report

Well Use:	Domestic	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	0	Section:	35
Total Depth:	220	Township:	21S
Diameter:	3	Range:	31E
Completion Date:	02/03/1994	Latitude:	283709.902568
Issue Date:	-	Longitude:	811113.425468
Well Street Address:	-		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1769540		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
10	NNW	0.51	2,696.19	55.18	WATER WELLS

Permit:	-	Static Water Lvl Ft:	4
Legacy No:	-	Contractor License:	-
Station ID:	109199	Contractor Name:	-
Compliance No:	766081	Driller Name:	Robert A. Sams?
Well Use:	Monitoring	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	12	Section:	35
Total Depth:	12	Township:	21S
Diameter:	2	Range:	31E
Completion Date:	02/06/1997	Latitude:	283709.902568
Issue Date:	-	Longitude:	811113.425468
Well Street Address:	N E Corate Sr 419 Lockwod Blvd		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1487003		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
10	NNW	0.51	2,696.19	55.18	WATER WELLS

Permit:	-	Static Water Lvl Ft:	4
Legacy No:	-	Contractor License:	-
Station ID:	109201	Contractor Name:	-
Compliance No:	766083	Driller Name:	Robert A. Sams?
Well Use:	Monitoring	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	12	Section:	35
Total Depth:	12	Township:	21S
Diameter:	2	Range:	31E
Completion Date:	02/05/1997	Latitude:	283709.902568
Issue Date:	-	Longitude:	811113.425468

Wells and Additional Sources Detail Report

Well Street Address:	N E Coranr Lockwood Blvd Rd
Documents:	Well Completion Report
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1503515

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
10	NNW	0.51	2,696.19	55.18	WATER WELLS

Permit:	-	Static Water Lvl Ft:	3
Legacy No:	-	Contractor License:	-
Station ID:	109198	Contractor Name:	-
Compliance No:	766080	Driller Name:	Robert A. Sams?
Well Use:	-	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	12	Section:	35
Total Depth:	12	Township:	21S
Diameter:	2	Range:	31E
Completion Date:	02/05/1997	Latitude:	283709.902568
Issue Date:	-	Longitude:	811113.425468
Well Street Address:	N E Cornea Lockwood Blvd Mccallock Rd		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1488631		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
10	NNW	0.51	2,696.19	55.18	WATER WELLS

Permit:	-	Static Water Lvl Ft:	5
Legacy No:	-	Contractor License:	-
Station ID:	109200	Contractor Name:	-
Compliance No:	766082	Driller Name:	Robert A. Sams?
Well Use:	Monitoring	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	12	Section:	35
Total Depth:	12	Township:	21S
Diameter:	2	Range:	31E
Completion Date:	02/05/1997	Latitude:	283709.902568
Issue Date:	-	Longitude:	811113.425468
Well Street Address:	N E Lockwood Blvd Mccullock Rd		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1487004		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
10	NNW	0.51	2,696.19	55.18	WATER WELLS

Permit:	-	Static Water Lvl Ft:	26
Legacy No:	-	Contractor License:	-
Station ID:	235079	Contractor Name:	-
Compliance No:	903714	Driller Name:	Timothy Myers?
Well Use:	-	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	84	Section:	35
Total Depth:	220	Township:	21S
Diameter:	4	Range:	31E
Completion Date:	05/31/2007	Latitude:	283709.902568
Issue Date:	-	Longitude:	811113.425468
Well Street Address:	-		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1611270		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
10	NNW	0.51	2,696.19	55.18	WATER WELLS

Permit:	-	Static Water Lvl Ft:	26
Legacy No:	-	Contractor License:	-
Station ID:	403258	Contractor Name:	-
Compliance No:	1120665	Driller Name:	-
Well Use:	-	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	0	Section:	35
Total Depth:	240	Township:	21S
Diameter:	4	Range:	31E
Completion Date:	03/05/2009	Latitude:	283709.902568
Issue Date:	-	Longitude:	811113.425468
Well Street Address:	-		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_1925789		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
11	ESE	0.54	2,845.61	58.65	WATER WELLS

Permit:	-	Static Water Lvl Ft:	35
Legacy No:	-	Contractor License:	-
Station ID:	222212	Contractor Name:	-
Compliance No:	888279	Driller Name:	Cory Ratchford
Well Use:	Domestic	County:	Orange
Type of Work:	-	Location State:	-

Casing Depth:	92	Section:	1
Total Depth:	120	Township:	22S
Diameter:	4	Range:	31E
Completion Date:	08/26/2002	Latitude:	283618.769356
Issue Date:	-	Longitude:	811013.03572
Well Street Address:	14313 Lake Price		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1594986		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
11	ESE	0.54	2,845.61	58.65	WATER WELLS

Permit:	-	Static Water Lvl Ft:	25
Legacy No:	-	Contractor License:	-
Station ID:	221992	Contractor Name:	-
Compliance No:	887483	Driller Name:	Isaac Gallant
Well Use:	-	County:	Orange
Type of Work:	-	Location State:	-
Casing Depth:	72	Section:	1
Total Depth:	180	Township:	22S
Diameter:	4	Range:	31E
Completion Date:	03/14/2002	Latitude:	283618.769356
Issue Date:	-	Longitude:	811013.03572
Well Street Address:	14648 Keistin Right		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1600642		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
11	ESE	0.54	2,845.61	58.65	WATER WELLS

Permit:	-	Static Water Lvl Ft:	31
Legacy No:	-	Contractor License:	-
Station ID:	235133	Contractor Name:	-
Compliance No:	903768	Driller Name:	Tim Myers?
Well Use:	Domestic	County:	Orange
Type of Work:	-	Location State:	-
Casing Depth:	78	Section:	1
Total Depth:	140	Township:	22S
Diameter:	4	Range:	31E
Completion Date:	05/31/2007	Latitude:	283618.769356
Issue Date:	-	Longitude:	811013.03572
Well Street Address:	-		
Documents:	Well Completion Report		

Documents URL: https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1611480

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
11	ESE	0.54	2,845.61	58.65	WATER WELLS

Permit:	-	Static Water Lvl Ft:	22
Legacy No:	-	Contractor License:	-
Station ID:	291520	Contractor Name:	-
Compliance No:	1008790	Driller Name:	-
Well Use:	Domestic	County:	Orange
Type of Work:	-	Location State:	FL
Casing Depth:	0	Section:	1
Total Depth:	140	Township:	22S
Diameter:	0	Range:	31E
Completion Date:	12/04/1992	Latitude:	283618.769356
Issue Date:	-	Longitude:	811013.03572
Well Street Address:	1418 Lk Procter Dr, Orlando, FL 32826		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1814348		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
11	ESE	0.54	2,845.61	58.65	WATER WELLS

Permit:	-	Static Water Lvl Ft:	29
Legacy No:	-	Contractor License:	-
Station ID:	394481	Contractor Name:	-
Compliance No:	1111881	Driller Name:	?
Well Use:	-	County:	Orange
Type of Work:	-	Location State:	-
Casing Depth:	0	Section:	1
Total Depth:	130	Township:	22S
Diameter:	0	Range:	31E
Completion Date:	02/16/1987	Latitude:	283618.769356
Issue Date:	-	Longitude:	811013.03572
Well Street Address:	-		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_1917099		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
11	ESE	0.54	2,845.61	58.65	WATER WELLS

Permit:	-	Static Water Lvl Ft:	22
Legacy No:	-	Contractor License:	-
Station ID:	173796	Contractor Name:	-
Compliance No:	838900	Driller Name:	Timothy Myers
Well Use:	Domestic	County:	Orange
Type of Work:	-	Location State:	-
Casing Depth:	107	Section:	1
Total Depth:	180	Township:	22S
Diameter:	4	Range:	31E
Completion Date:	09/11/2000	Latitude:	283618.769356
Issue Date:	-	Longitude:	811013.03572
Well Street Address:	14166 Lake River		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1542294		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
11	ESE	0.54	2,845.61	58.65	WATER WELLS

Permit:	-	Static Water Lvl Ft:	27
Legacy No:	-	Contractor License:	-
Station ID:	394479	Contractor Name:	-
Compliance No:	1111879	Driller Name:	?
Well Use:	-	County:	Orange
Type of Work:	-	Location State:	-
Casing Depth:	0	Section:	1
Total Depth:	104	Township:	22S
Diameter:	0	Range:	31E
Completion Date:	10/15/1990	Latitude:	283618.769356
Issue Date:	-	Longitude:	811013.03572
Well Street Address:	-		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_1917097		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
11	ESE	0.54	2,845.61	58.65	WATER WELLS

Permit:	-	Static Water Lvl Ft:	40
Legacy No:	-	Contractor License:	-
Station ID:	394483	Contractor Name:	-
Compliance No:	1111883	Driller Name:	-
Well Use:	-	County:	Orange
Type of Work:	-	Location State:	FL
Casing Depth:	0	Section:	1

Total Depth:	120	Township:	22S
Diameter:	4	Range:	31E
Completion Date:	02/01/1988	Latitude:	283618.769356
Issue Date:	-	Longitude:	811013.03572
Well Street Address:	14006 Lake Price, Orlando, FL 32817		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_1917101		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
12	ENE	0.57	2,994.07	39.06	WATER WELLS

Permit:	-	Static Water Lvl Ft:	12
Legacy No:	-	Contractor License:	-
Station ID:	246399	Contractor Name:	-
Compliance No:	963592	Driller Name:	?
Well Use:	Domestic	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	0	Section:	36
Total Depth:	160	Township:	21S
Diameter:	3	Range:	31E
Completion Date:	10/03/1994	Latitude:	283710.227576
Issue Date:	-	Longitude:	811013.892232
Well Street Address:	-		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1769541		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
12	ENE	0.57	2,994.07	39.06	WATER WELLS

Permit:	-	Static Water Lvl Ft:	28
Legacy No:	-	Contractor License:	-
Station ID:	306154	Contractor Name:	-
Compliance No:	1023456	Driller Name:	Hugh Eldridge
Well Use:	Domestic	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	0	Section:	36
Total Depth:	185	Township:	21S
Diameter:	0	Range:	31E
Completion Date:	08/16/1993	Latitude:	283710.227576
Issue Date:	-	Longitude:	811013.892232
Well Street Address:	2436 Town Run #34		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Renditi		

on=Web&dDocName=EREG_1828807

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
13	W	0.58	3,060.59	63.76	WATER WELLS

Permit:	-	Static Water Lvl Ft:	28
Legacy No:	-	Contractor License:	-
Station ID:	105575	Contractor Name:	-
Compliance No:	758848	Driller Name:	Cheis Peery
Well Use:	-	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	0	Section:	28
Total Depth:	63	Township:	21S
Diameter:	0	Range:	32E
Completion Date:	08/05/1998	Latitude:	283649.421196
Issue Date:	-	Longitude:	811204.530168
Well Street Address:	Seminole Co.		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1485195		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
15	ENE	0.61	3,203.11	41.21	WATER WELLS

Permit:	-	Static Water Lvl Ft:	10
Legacy No:	-	Contractor License:	-
Station ID:	90346	Contractor Name:	-
Compliance No:	541635	Driller Name:	DAVID A. STEWART, JR.
Well Use:	Domestic	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	68	Section:	36
Total Depth:	75	Township:	21S
Diameter:	4	Range:	31E
Completion Date:	02/16/2001	Latitude:	283710.412904
Issue Date:	-	Longitude:	811009.402564
Well Street Address:	2444 FAWN RUN		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1469879		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
19	SE	0.66	3,505.95	55.37	WATER WELLS

Permit:	-	Static Water Lvl Ft:	15
Legacy No:	-	Contractor License:	-

Wells and Additional Sources Detail Report

Station ID:	85479	Contractor Name:	-
Compliance No:	533936	Driller Name:	MIKE BURK
Well Use:	Domestic	County:	Orange
Type of Work:	-	Location State:	-
Casing Depth:	106	Section:	1
Total Depth:	140	Township:	22S
Diameter:	4	Range:	31E
Completion Date:	05/29/2003	Latitude:	283608.737416
Issue Date:	-	Longitude:	811030.8352
Well Street Address:	14182 LAKE PRICE DR		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1464739		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
21	W	0.71	3,726.28	62.95	WATER WELLS

Permit:	-	Static Water Lvl Ft:	33
Legacy No:	-	Contractor License:	-
Station ID:	411116	Contractor Name:	-
Compliance No:	1173077	Driller Name:	Steve Young
Well Use:	Test	County:	Orange
Type of Work:	-	Location State:	FL
Casing Depth:	113	Section:	3
Total Depth:	440	Township:	22S
Diameter:	4	Range:	31E
Completion Date:	09/14/2011	Latitude:	283632.4468
Issue Date:	-	Longitude:	811210.9836
Well Street Address:	4000 CENTRAL FLORIDA BLVD; Orlando; FL - 32816		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_2334028		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
21	W	0.71	3,726.28	62.95	WATER WELLS

Permit:	-	Static Water Lvl Ft:	33
Legacy No:	-	Contractor License:	-
Station ID:	411116	Contractor Name:	-
Compliance No:	1173077	Driller Name:	Steve Young
Well Use:	Test	County:	Orange
Type of Work:	-	Location State:	FL
Casing Depth:	113	Section:	3
Total Depth:	440	Township:	22S
Diameter:	4	Range:	Orange

Completion Date:	09/14/2011	Latitude:	283632.4468
Issue Date:	-	Longitude:	811210.9836
Well Street Address:	4000 CENTRAL FLORIDA BLVD; Orlando; FL - 32816		
Documents:	Supporting Document		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_2334026		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
21	W	0.71	3,726.28	62.95	WATER WELLS

Permit:	-	Static Water Lvl Ft:	33
Legacy No:	-	Contractor License:	-
Station ID:	411116	Contractor Name:	-
Compliance No:	1173077	Driller Name:	Steve Young
Well Use:	Test	County:	Orange
Type of Work:	-	Location State:	FL
Casing Depth:	113	Section:	3
Total Depth:	440	Township:	22S
Diameter:	4	Range:	Orange
Completion Date:	09/14/2011	Latitude:	283632.4468
Issue Date:	-	Longitude:	811210.9836
Well Street Address:	4000 CENTRAL FLORIDA BLVD; Orlando; FL - 32816		
Documents:	Map		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_2334027		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
22	N	0.73	3,867.17	49.49	WATER WELLS

Permit:	-	Static Water Lvl Ft:	-
Legacy No:	-	Contractor License:	-
Station ID:	463979	Contractor Name:	-
Compliance No:	1319141	Driller Name:	Cory Ratchford
Well Use:	Irrigation - Landscape	County:	Seminole
Type of Work:	-	Location State:	FL
Casing Depth:	126	Section:	35
Total Depth:	300	Township:	21S
Diameter:	0	Range:	Seminole
Completion Date:	11/01/2016	Latitude:	283721.580968
Issue Date:	-	Longitude:	811100.64986
Well Street Address:	1852 Carillon Park Dr; Oviedo; FL - 32765		
Documents:	Supporting Document		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_6441998		

Wells and Additional Sources Detail Report

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
22	N	0.73	3,867.17	49.49	WATER WELLS

Permit:	-	Static Water Lvl Ft:	-
Legacy No:	-	Contractor License:	-
Station ID:	463979	Contractor Name:	-
Compliance No:	1319141	Driller Name:	Cory Ratchford
Well Use:	Irrigation - Landscape	County:	Seminole
Type of Work:	-	Location State:	FL
Casing Depth:	126	Section:	35
Total Depth:	300	Township:	21S
Diameter:	0	Range:	31E
Completion Date:	11/01/2016	Latitude:	283721.580968
Issue Date:	-	Longitude:	811100.64986
Well Street Address:	1852 Carillon Park Dr; Oviedo; FL - 32765		
Documents:	Supporting Document1		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_6441997		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	WSW	0.76	3,996.40	64.72	WATER WELLS

Permit:	127637-1	Static Water Lvl Ft:	-
Legacy No:	-	Contractor License:	-
Station ID:	11920	Contractor Name:	-
Compliance No:	1164054	Driller Name:	George Eddie Hull
Well Use:	Irrigation - Landscape	County:	Orange
Type of Work:	Modification	Location State:	FL
Casing Depth:	137	Section:	3
Total Depth:	260	Township:	22S
Diameter:	6	Range:	Orange
Completion Date:	05/20/2011	Latitude:	283625.039476
Issue Date:	05/18/2011	Longitude:	811210.857024
Well Street Address:	4000 CENTRAL FLORIDA BLVD; UN-INCORPORATED; FL - 32816		
Documents:	Map		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_2256812		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	WSW	0.76	3,996.40	64.72	WATER WELLS

Permit:	127637-1	Static Water Lvl Ft:	-
Legacy No:	-	Contractor License:	-

Wells and Additional Sources Detail Report

Station ID:	11920	Contractor Name:	-
Compliance No:	1164054	Driller Name:	George Eddie Hull
Well Use:	Irrigation - Landscape	County:	Orange
Type of Work:	Modification	Location State:	FL
Casing Depth:	137	Section:	3
Total Depth:	260	Township:	22S
Diameter:	6	Range:	31E
Completion Date:	05/20/2011	Latitude:	283625.039476
Issue Date:	05/18/2011	Longitude:	811210.857024
Well Street Address:	4000 CENTRAL FLORIDA BLVD; UN-INCORPORATED; FL - 32816		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_2256813		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
25	SSE	0.78	4,142.16	53.73	WATER WELLS

Permit:	-	Static Water Lvl Ft:	22
Legacy No:	-	Contractor License:	-
Station ID:	287833	Contractor Name:	-
Compliance No:	1005101	Driller Name:	-
Well Use:	Domestic	County:	Orange
Type of Work:	-	Location State:	-
Casing Depth:	0	Section:	13
Total Depth:	115	Township:	22S
Diameter:	0	Range:	32E
Completion Date:	05/19/1993	Latitude:	283602.3886
Issue Date:	-	Longitude:	811038.46198
Well Street Address:	14055 Lake Price Rd		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1810680		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
26	WNW	0.79	4,171.96	40.38	WATER WELLS

Permit:	-	Static Water Lvl Ft:	7
Legacy No:	-	Contractor License:	-
Station ID:	109242	Contractor Name:	-
Compliance No:	766124	Driller Name:	Vincent Bryan?
Well Use:	Commercial/Industrial	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	0	Section:	34
Total Depth:	210	Township:	21S
Diameter:	0	Range:	31E

Completion Date:	02/09/1997	Latitude:	283714.258712
Issue Date:	-	Longitude:	811201.676052
Well Street Address:	3573 Kayla Cir Oveido		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1503427		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	NNE	0.80	4,216.08	56.67	WATER WELLS

Permit:	-	Static Water Lvl Ft:	22
Legacy No:	-	Contractor License:	-
Station ID:	254926	Contractor Name:	-
Compliance No:	972119	Driller Name:	David A. Stewart. Jr.?
Well Use:	-	County:	Seminole
Type of Work:	-	Location State:	FL
Casing Depth:	0	Section:	36
Total Depth:	130	Township:	21S
Diameter:	4	Range:	31E
Completion Date:	09/06/1996	Latitude:	283725.111452
Issue Date:	-	Longitude:	811048.706536
Well Street Address:	3200 Lockwood Blvd., Oviedo, FL		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1777887		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	NNE	0.80	4,216.08	56.67	WATER WELLS

Permit:	-	Static Water Lvl Ft:	22
Legacy No:	-	Contractor License:	-
Station ID:	254924	Contractor Name:	-
Compliance No:	972117	Driller Name:	David A. Stewart Jr?
Well Use:	-	County:	Seminole
Type of Work:	-	Location State:	FL
Casing Depth:	0	Section:	36
Total Depth:	130	Township:	21S
Diameter:	0	Range:	31E
Completion Date:	09/11/1996	Latitude:	283725.111452
Issue Date:	-	Longitude:	811048.706536
Well Street Address:	3200 Lockwood Blvd., Oviedo, FL		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1777885		

Wells and Additional Sources Detail Report

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
30	SW	0.85	4,512.55	61.47	WATER WELLS

Permit:	147919-1	Static Water Lvl Ft:	31
Legacy No:	-	Contractor License:	-
Station ID:	11916	Contractor Name:	-
Compliance No:	1317378	Driller Name:	-
Well Use:	Public Water Supply (Community or Non-Community/DEP)	County:	Orange
Type of Work:	Repair	Location State:	FL
Casing Depth:	150	Section:	3
Total Depth:	400	Township:	22S
Diameter:	8	Range:	Orange
Completion Date:	12/29/2016	Latitude:	283601.226124
Issue Date:	11/02/2016	Longitude:	811148.683436
Well Street Address:	4000 CENTRAL FLORIDA BLVD; ORLANDO; FL - 32816		
Documents:	Application		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_6471950		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
30	SW	0.85	4,512.55	61.47	WATER WELLS

Permit:	147919-1	Static Water Lvl Ft:	31
Legacy No:	-	Contractor License:	-
Station ID:	11916	Contractor Name:	-
Compliance No:	1317378	Driller Name:	-
Well Use:	Public Water Supply (Community or Non-Community/DEP)	County:	Orange
Type of Work:	Repair	Location State:	FL
Casing Depth:	150	Section:	3
Total Depth:	400	Township:	22S
Diameter:	8	Range:	31E
Completion Date:	12/29/2016	Latitude:	283601.226124
Issue Date:	11/02/2016	Longitude:	811148.683436
Well Street Address:	4000 CENTRAL FLORIDA BLVD; ORLANDO; FL - 32816		
Documents:	Application1		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_6476108		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
31	NNE	0.86	4,520.78	56.30	WATER WELLS

Permit:	-	Static Water Lvl Ft:	25
Legacy No:	-	Contractor License:	-

Wells and Additional Sources Detail Report

Station ID:	383863	Contractor Name:	-
Compliance No:	1101263	Driller Name:	-
Well Use:	-	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	0	Section:	36
Total Depth:	140	Township:	21S
Diameter:	4	Range:	31E
Completion Date:	09/29/1988	Latitude:	283728.129476
Issue Date:	-	Longitude:	811048.704736
Well Street Address:	3160 Lockwood Rd.		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_1906622		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
32	WSW	0.86	4,525.78	74.89	WATER WELLS

Permit:	-	Static Water Lvl Ft:	0
Legacy No:	-	Contractor License:	-
Station ID:	90825	Contractor Name:	-
Compliance No:	542114	Driller Name:	RJ SOTO GPI WO# 7367
Well Use:	Monitoring	County:	Orange
Type of Work:	-	Location State:	-
Casing Depth:	18	Section:	3
Total Depth:	18	Township:	22S
Diameter:	2	Range:	31E
Completion Date:	05/11/2001	Latitude:	283617.405172
Issue Date:	-	Longitude:	811212.568644
Well Street Address:	Unknown		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1475220		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
33	WSW	0.86	4,538.59	74.90	WATER WELLS

Permit:	-	Static Water Lvl Ft:	0
Legacy No:	-	Contractor License:	-
Station ID:	287859	Contractor Name:	-
Compliance No:	1005127	Driller Name:	Tim Roberts?
Well Use:	Monitoring	County:	Orange
Type of Work:	-	Location State:	FL
Casing Depth:	0	Section:	3
Total Depth:	25	Township:	22S
Diameter:	2	Range:	31E

Completion Date:	08/27/1993	Latitude:	283617.800848
Issue Date:	-	Longitude:	811213.052484
Well Street Address:	4066 Alafaya Tr., Orlando, FL 32817		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1810706		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
33	WSW	0.86	4,538.59	74.90	WATER WELLS

Permit:	-	Static Water Lvl Ft:	0
Legacy No:	-	Contractor License:	-
Station ID:	394485	Contractor Name:	-
Compliance No:	1111885	Driller Name:	?
Well Use:	Monitoring	County:	Orange
Type of Work:	-	Location State:	-
Casing Depth:	0	Section:	3
Total Depth:	12	Township:	22S
Diameter:	0	Range:	31E
Completion Date:	08/22/1986	Latitude:	283617.800848
Issue Date:	-	Longitude:	811213.052484
Well Street Address:	-		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_1917103		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
33	WSW	0.86	4,538.59	74.90	WATER WELLS

Permit:	-	Static Water Lvl Ft:	6
Legacy No:	-	Contractor License:	-
Station ID:	351126	Contractor Name:	-
Compliance No:	1068510	Driller Name:	?
Well Use:	Monitoring	County:	Orange
Type of Work:	-	Location State:	-
Casing Depth:	0	Section:	3
Total Depth:	11	Township:	22S
Diameter:	0	Range:	31E
Completion Date:	05/30/1991	Latitude:	283617.800848
Issue Date:	-	Longitude:	811213.052484
Well Street Address:	-		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_1874246		

Wells and Additional Sources Detail Report

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
33	WSW	0.86	4,538.59	74.90	WATER WELLS

Permit:	-	Static Water Lvl Ft:	6
Legacy No:	-	Contractor License:	-
Station ID:	351128	Contractor Name:	-
Compliance No:	1068512	Driller Name:	?
Well Use:	Monitoring	County:	Orange
Type of Work:	-	Location State:	FL
Casing Depth:	0	Section:	3
Total Depth:	16	Township:	22S
Diameter:	2	Range:	31E
Completion Date:	11/19/1991	Latitude:	283617.800848
Issue Date:	-	Longitude:	811213.052484
Well Street Address:	Alafaya Trail & Me Cudloch Rd, Orlando, FL		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_1874248		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
33	WSW	0.86	4,538.59	74.90	WATER WELLS

Permit:	-	Static Water Lvl Ft:	1
Legacy No:	-	Contractor License:	-
Station ID:	351127	Contractor Name:	-
Compliance No:	1068511	Driller Name:	?
Well Use:	Monitoring	County:	Orange
Type of Work:	-	Location State:	-
Casing Depth:	0	Section:	3
Total Depth:	7	Township:	22S
Diameter:	0	Range:	31E
Completion Date:	06/04/1991	Latitude:	283617.800848
Issue Date:	-	Longitude:	811213.052484
Well Street Address:	Ucf Studer Terion Aqurice Circle		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_1874247		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
33	WSW	0.86	4,538.59	74.90	WATER WELLS

Permit:	-	Static Water Lvl Ft:	0
Legacy No:	-	Contractor License:	-
Station ID:	85340	Contractor Name:	-

Wells and Additional Sources Detail Report

Compliance No:	533797	Driller Name:	RUSS WILKIE GPI WO# 8754
Well Use:	Monitoring	County:	Orange
Type of Work:	-	Location State:	-
Casing Depth:	15	Section:	3
Total Depth:	25	Township:	22S
Diameter:	2	Range:	31E
Completion Date:	11/11/2003	Latitude:	283617.800848
Issue Date:	-	Longitude:	811213.052484
Well Street Address:	-		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1466678		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
33	WSW	0.86	4,538.59	74.90	WATER WELLS

Permit:	-	Static Water Lvl Ft:	2
Legacy No:	-	Contractor License:	-
Station ID:	351125	Contractor Name:	-
Compliance No:	1068509	Driller Name:	?
Well Use:	Monitoring	County:	Orange
Type of Work:	-	Location State:	-
Casing Depth:	0	Section:	3
Total Depth:	7	Township:	22S
Diameter:	0	Range:	31E
Completion Date:	05/30/1991	Latitude:	283617.800848
Issue Date:	-	Longitude:	811213.052484
Well Street Address:	-		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_1874245		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
33	WSW	0.86	4,538.59	74.90	WATER WELLS

Permit:	-	Static Water Lvl Ft:	60
Legacy No:	-	Contractor License:	-
Station ID:	394484	Contractor Name:	-
Compliance No:	1111884	Driller Name:	?
Well Use:	-	County:	Orange
Type of Work:	-	Location State:	-
Casing Depth:	0	Section:	3
Total Depth:	420	Township:	22S
Diameter:	0	Range:	31E
Completion Date:	11/01/1990	Latitude:	283617.800848

Issue Date:	-	Longitude:	811213.052484
Well Street Address:	Ucf Track & Fieldhouse Alafaya Trail		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_1917102		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
35	WNW	0.87	4,577.80	44.79	WATER WELLS

Permit:	-	Static Water Lvl Ft:	14
Legacy No:	-	Contractor License:	-
Station ID:	332646	Contractor Name:	-
Compliance No:	1050022	Driller Name:	?
Well Use:	-	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	0	Section:	34
Total Depth:	0	Township:	21S
Diameter:	4	Range:	31E
Completion Date:	04/06/2005	Latitude:	283709.580908
Issue Date:	-	Longitude:	811212.634452
Well Street Address:	581 Elon River Place		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_1855732		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
35	WNW	0.87	4,577.80	44.79	WATER WELLS

Permit:	-	Static Water Lvl Ft:	4
Legacy No:	-	Contractor License:	-
Station ID:	310128	Contractor Name:	-
Compliance No:	1027430	Driller Name:	Dennis D. Rohn
Well Use:	Monitoring	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	0	Section:	34
Total Depth:	13	Township:	21S
Diameter:	2	Range:	31E
Completion Date:	03/12/1990	Latitude:	283709.580908
Issue Date:	-	Longitude:	811212.634452
Well Street Address:	-		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_1832694		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB

35	WNW	0.87	4,577.80	44.79	WATER WELLS

Permit:	-	Static Water Lvl Ft:	10
Legacy No:	-	Contractor License:	-
Station ID:	383860	Contractor Name:	-
Compliance No:	1101260	Driller Name:	-
Well Use:	-	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	0	Section:	34
Total Depth:	261	Township:	21S
Diameter:	0	Range:	31E
Completion Date:	12/16/1985	Latitude:	283709.580908
Issue Date:	-	Longitude:	811212.634452
Well Street Address:	Park Road Near Alafaya Trail		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_1906619		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
35	WNW	0.87	4,577.80	44.79	WATER WELLS

Permit:	-	Static Water Lvl Ft:	25
Legacy No:	-	Contractor License:	-
Station ID:	306152	Contractor Name:	-
Compliance No:	1023454	Driller Name:	David A. Stewart, Jr.?
Well Use:	-	County:	Seminole
Type of Work:	-	Location State:	FL
Casing Depth:	0	Section:	34
Total Depth:	255	Township:	21S
Diameter:	0	Range:	31E
Completion Date:	09/21/1993	Latitude:	283709.580908
Issue Date:	-	Longitude:	811212.634452
Well Street Address:	Alafaya Trial, Oviedo, FL		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1828805		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
35	WNW	0.87	4,577.80	44.79	WATER WELLS

Permit:	-	Static Water Lvl Ft:	4
Legacy No:	-	Contractor License:	-
Station ID:	310129	Contractor Name:	-
Compliance No:	1027431	Driller Name:	Dennis D. Rohn
Well Use:	Monitoring	County:	Seminole

Type of Work:	-	Location State:	-
Casing Depth:	0	Section:	34
Total Depth:	13	Township:	21S
Diameter:	2	Range:	31E
Completion Date:	03/12/1990	Latitude:	283709.580908
Issue Date:	-	Longitude:	811212.634452
Well Street Address:	-		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_1832695		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
35	WNW	0.87	4,577.80	44.79	WATER WELLS

Permit:	-	Static Water Lvl Ft:	4
Legacy No:	-	Contractor License:	-
Station ID:	310127	Contractor Name:	-
Compliance No:	1027429	Driller Name:	Dennis D. Rohn
Well Use:	Monitoring	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	0	Section:	34
Total Depth:	13	Township:	21S
Diameter:	2	Range:	31E
Completion Date:	03/12/1990	Latitude:	283709.580908
Issue Date:	-	Longitude:	811212.634452
Well Street Address:	-		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_1832693		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
35	WNW	0.87	4,577.80	44.79	WATER WELLS

Permit:	-	Static Water Lvl Ft:	0
Legacy No:	-	Contractor License:	-
Station ID:	220099	Contractor Name:	-
Compliance No:	885407	Driller Name:	Billy Moss Gpi Wo# 9836
Well Use:	Monitoring	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	6	Section:	34
Total Depth:	16	Township:	21S
Diameter:	2	Range:	31E
Completion Date:	11/25/2005	Latitude:	283709.580908
Issue Date:	-	Longitude:	811212.634452
Well Street Address:	-		

Documents: Well Completion Report
Documents URL: https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1600306

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
35	WNW	0.87	4,577.80	44.79	WATER WELLS

Permit:	-	Static Water Lvl Ft:	20
Legacy No:	-	Contractor License:	-
Station ID:	332184	Contractor Name:	-
Compliance No:	1049560	Driller Name:	-
Well Use:	Domestic	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	0	Section:	34
Total Depth:	250	Township:	21S
Diameter:	4	Range:	31E
Completion Date:	03/10/2004	Latitude:	283709.580908
Issue Date:	-	Longitude:	811212.634452
Well Street Address:	-		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_1855271		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
35	WNW	0.87	4,577.80	44.79	WATER WELLS

Permit:	-	Static Water Lvl Ft:	4
Legacy No:	-	Contractor License:	-
Station ID:	310130	Contractor Name:	-
Compliance No:	1027432	Driller Name:	Dennis D. Rohn
Well Use:	Monitoring	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	0	Section:	34
Total Depth:	13	Township:	21S
Diameter:	2	Range:	31E
Completion Date:	03/12/1990	Latitude:	283709.580908
Issue Date:	-	Longitude:	811212.634452
Well Street Address:	-		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_1832696		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
35	WNW	0.87	4,577.80	44.79	WATER WELLS

Permit:	-	Static Water Lvl Ft:	0
Legacy No:	-	Contractor License:	-
Station ID:	108859	Contractor Name:	-
Compliance No:	765718	Driller Name:	Adam Benson?
Well Use:	Monitoring	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	10	Section:	34
Total Depth:	10	Township:	21S
Diameter:	2	Range:	31E
Completion Date:	02/04/1999	Latitude:	283709.580908
Issue Date:	-	Longitude:	811212.634452
Well Street Address:	-		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1491496		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
35	WNW	0.87	4,577.80	44.79	WATER WELLS

Permit:	-	Static Water Lvl Ft:	20
Legacy No:	-	Contractor License:	-
Station ID:	332892	Contractor Name:	-
Compliance No:	1050268	Driller Name:	-
Well Use:	Domestic	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	0	Section:	34
Total Depth:	250	Township:	21S
Diameter:	4	Range:	31E
Completion Date:	03/10/2004	Latitude:	283709.580908
Issue Date:	-	Longitude:	811212.634452
Well Street Address:	3010 Moore Dr		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_1855979		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
35	WNW	0.87	4,577.80	44.79	WATER WELLS

Permit:	-	Static Water Lvl Ft:	14
Legacy No:	-	Contractor License:	-
Station ID:	220082	Contractor Name:	-
Compliance No:	885390	Driller Name:	Frank Harrington
Well Use:	-	County:	Seminole
Type of Work:	-	Location State:	-

Casing Depth:	0	Section:	34
Total Depth:	0	Township:	21S
Diameter:	0	Range:	31E
Completion Date:	04/06/2005	Latitude:	283709.580908
Issue Date:	-	Longitude:	811212.634452
Well Street Address:	581 Elon River Place		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1592930		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
35	WNW	0.87	4,577.80	44.79	WATER WELLS

Permit:	-	Static Water Lvl Ft:	0
Legacy No:	-	Contractor License:	-
Station ID:	332652	Contractor Name:	-
Compliance No:	1050028	Driller Name:	?
Well Use:	Monitoring	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	0	Section:	34
Total Depth:	16	Township:	21S
Diameter:	2	Range:	31E
Completion Date:	11/25/2005	Latitude:	283709.580908
Issue Date:	-	Longitude:	811212.634452
Well Street Address:	-		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_1855738		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
35	WNW	0.87	4,577.80	44.79	WATER WELLS

Permit:	-	Static Water Lvl Ft:	49
Legacy No:	-	Contractor License:	-
Station ID:	383859	Contractor Name:	-
Compliance No:	1101259	Driller Name:	?
Well Use:	-	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	0	Section:	34
Total Depth:	320	Township:	21S
Diameter:	0	Range:	31E
Completion Date:	12/08/1986	Latitude:	283709.580908
Issue Date:	-	Longitude:	811212.634452
Well Street Address:	-		
Documents:	Well Completion Report		

Documents URL: https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_1906618

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
36	SW	0.89	4,715.44	61.25	WATER WELLS

Permit:	153094-1	Static Water Lvl Ft:	31
Legacy No:	-	Contractor License:	-
Station ID:	11915	Contractor Name:	-
Compliance No:	1350250	Driller Name:	-
Well Use:	Public Water Supply (Community or Non-Community/DEP)	County:	Orange
Type of Work:	Modification	Location State:	FL
Casing Depth:	87	Section:	3
Total Depth:	395	Township:	22S
Diameter:	12	Range:	31E
Completion Date:	-	Latitude:	283559.518212
Issue Date:	03/26/2018	Longitude:	811150.000604
Well Street Address:	-		
Documents:	Water Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_6738669		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
39	S	0.91	4,783.68	53.55	WATER WELLS

Permit:	-	Static Water Lvl Ft:	20
Legacy No:	-	Contractor License:	-
Station ID:	213686	Contractor Name:	-
Compliance No:	879690	Driller Name:	Timothy Myers?
Well Use:	-	County:	Orange
Type of Work:	-	Location State:	-
Casing Depth:	81	Section:	2
Total Depth:	170	Township:	22S
Diameter:	4	Range:	31E
Completion Date:	02/17/2004	Latitude:	283555.949064
Issue Date:	-	Longitude:	811052.170744
Well Street Address:	3283 Boca Woods		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1594350		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
42	WNW	0.93	4,935.51	46.03	WATER WELLS

Wells and Additional Sources Detail Report

Permit:	-	Static Water Lvl Ft:	25
Legacy No:	-	Contractor License:	-
Station ID:	383857	Contractor Name:	-
Compliance No:	1101257	Driller Name:	-
Well Use:	-	County:	Seminole
Type of Work:	-	Location State:	FL
Casing Depth:	0	Section:	34
Total Depth:	230	Township:	21S
Diameter:	0	Range:	31E
Completion Date:	06/29/1987	Latitude:	283702.783856
Issue Date:	-	Longitude:	811221.637728
Well Street Address:	150 Park Rd, Oviedo, FL		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_1906616		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
43	NE	0.94	4,969.85	42.62	WATER WELLS

Permit:	-	Static Water Lvl Ft:	15
Legacy No:	-	Contractor License:	-
Station ID:	173267	Contractor Name:	-
Compliance No:	838327	Driller Name:	Timothy Myers?
Well Use:	Domestic	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	75	Section:	36
Total Depth:	120	Township:	21S
Diameter:	4	Range:	31E
Completion Date:	09/26/2000	Latitude:	283729.903016
Issue Date:	-	Longitude:	811009.85584
Well Street Address:	2236 Red Embem Rd		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&Rendition=Web&dDocName=EREG_1557284		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
44	SE	0.95	5,028.63	55.58	WATER WELLS

Permit:	-	Static Water Lvl Ft:	25
Legacy No:	-	Contractor License:	-
Station ID:	394482	Contractor Name:	-
Compliance No:	1111882	Driller Name:	?
Well Use:	-	County:	Orange
Type of Work:	-	Location State:	FL
Casing Depth:	0	Section:	1

Total Depth:	160	Township:	22S
Diameter:	4	Range:	31E
Completion Date:	-	Latitude:	283555.71132
Issue Date:	-	Longitude:	811012.415332
Well Street Address:	4001 W Tanore Rd, Orlando, FL 32817		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_1917100		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
45	SW	0.96	5,044.34	67.15	WATER WELLS

Permit:	149760-1	Static Water Lvl Ft:	37
Legacy No:	-	Contractor License:	-
Station ID:	11913	Contractor Name:	-
Compliance No:	1329389	Driller Name:	-
Well Use:	Public Water Supply (Community or Non-Community/DEP)	County:	Orange
Type of Work:	Modification	Location State:	FL
Casing Depth:	134	Section:	3
Total Depth:	400	Township:	22S
Diameter:	12	Range:	31E
Completion Date:	-	Latitude:	283556.948892
Issue Date:	05/08/2017	Longitude:	811152.626228
Well Street Address:	-		
Documents:	Application		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_6548213		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
47	W	0.96	5,074.66	63.61	WATER WELLS

Permit:	-	Static Water Lvl Ft:	7
Legacy No:	-	Contractor License:	-
Station ID:	343475	Contractor Name:	-
Compliance No:	1060858	Driller Name:	?
Well Use:	Monitoring	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	0	Section:	34
Total Depth:	15	Township:	21S
Diameter:	1	Range:	31E
Completion Date:	05/29/2008	Latitude:	283645.289476
Issue Date:	-	Longitude:	811227.8406
Well Street Address:	4301 Alafaya Trail		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?		

IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_1866640

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
47	W	0.96	5,074.66	63.61	WATER WELLS

Permit:	-	Static Water Lvl Ft:	7
Legacy No:	-	Contractor License:	-
Station ID:	343476	Contractor Name:	-
Compliance No:	1060859	Driller Name:	?
Well Use:	Monitoring	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	0	Section:	34
Total Depth:	13	Township:	21S
Diameter:	1	Range:	31E
Completion Date:	05/29/2008	Latitude:	283645.289476
Issue Date:	-	Longitude:	811227.8406
Well Street Address:	4301 Alafaya Trail		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_1866641		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
47	W	0.96	5,074.66	63.61	WATER WELLS

Permit:	-	Static Water Lvl Ft:	6
Legacy No:	-	Contractor License:	-
Station ID:	343474	Contractor Name:	-
Compliance No:	1060857	Driller Name:	?
Well Use:	Monitoring	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	0	Section:	34
Total Depth:	12	Township:	21S
Diameter:	1	Range:	31E
Completion Date:	05/29/2008	Latitude:	283645.289476
Issue Date:	-	Longitude:	811227.8406
Well Street Address:	4301 Alafaya Trail		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_1866639		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
47	W	0.96	5,074.66	63.61	WATER WELLS

Permit:	-	Static Water Lvl Ft:	-

Wells and Additional Sources Detail Report

Legacy No:	-	Contractor License:	-
Station ID:	418786	Contractor Name:	-
Compliance No:	1200188	Driller Name:	Greg Waxel
Well Use:	Monitoring	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	0	Section:	34
Total Depth:	0	Township:	21S
Diameter:	1	Range:	31E
Completion Date:	08/02/2011	Latitude:	283645.259092
Issue Date:	-	Longitude:	811227.838008
Well Street Address:	4301 Alafaya Trl, Oviedo FL		
Documents:	Supporting Document		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_5634112		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
48	W	0.96	5,078.22	62.25	WATER WELLS

Permit:	-	Static Water Lvl Ft:	10
Legacy No:	-	Contractor License:	-
Station ID:	403257	Contractor Name:	-
Compliance No:	1120664	Driller Name:	?
Well Use:	Monitoring	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	0	Section:	34
Total Depth:	12	Township:	21S
Diameter:	1	Range:	31E
Completion Date:	06/16/2009	Latitude:	283645.969336
Issue Date:	-	Longitude:	811227.8406
Well Street Address:	4279 Alafaya Trail		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_1925788		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
49	W	1.00	5,257.64	49.98	WATER WELLS

Permit:	-	Static Water Lvl Ft:	6
Legacy No:	-	Contractor License:	-
Station ID:	331291	Contractor Name:	-
Compliance No:	1048667	Driller Name:	?
Well Use:	Monitoring	County:	Seminole
Type of Work:	-	Location State:	-
Casing Depth:	0	Section:	35
Total Depth:	16	Township:	21S

Diameter:	0	Range:	31E
Completion Date:	01/27/1987	Latitude:	283656.459052
Issue Date:	-	Longitude:	811227.970092
Well Street Address:	Alafaya Trail And Palm Valley Blvd.		
Documents:	Well Completion Report		
Documents URL:	https://permitting.sjrwmd.com/apps/idcplg?IdcService=GET_FILE&coreContentOnly=1&RevisionSelectionMethod=Latest&allowInterrupt=1&dDocName=EREG_1854386		

Water Well Construction Permits

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
3	WSW	0.12	641.48	58.30	WELL CONST PERM

Permit No:	70503-1	County Name:	Orange
Permit Type:	Water Well Construction	Parcel ID:	NULL
Permit Status:	Active	Section ID:	2
Cur Permit Iss Dt:	4/19/2001	Township ID:	22S
Latitude:	283637	Range ID:	31E
Longitude:	811133		
Project Description:	NULL		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
24	WSW	0.76	4,009.56	64.96	WELL CONST PERM

Permit No:	126357-1	County Name:	Orange
Permit Type:	Water Well Construction	Parcel ID:	312203000000005
Permit Status:	Active	Section ID:	3
Cur Permit Iss Dt:	1/11/2011	Township ID:	22S
Latitude:	283625	Range ID:	31E
Longitude:	811211		
Project Description:	The engineers are requesting a well head modification to protect the well from sports activities scheduled for the Lake Claire site under renovation. The modification meets rule criteria and the box will be sufficient to protect and enclose the 6" well head and submercible turbine equipment.		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
24	WSW	0.76	4,009.56	64.96	WELL CONST PERM

Permit No:	127637-1	County Name:	Orange
Permit Type:	Water Well Construction	Parcel ID:	312203000000005
Permit Status:	Active	Section ID:	3
Cur Permit Iss Dt:	5/18/2011	Township ID:	22S
Latitude:	283625	Range ID:	31E
Longitude:	811211		
Project Description:	This modification will set the well and pumping equipment in an underground enclosure with drainage options if required. The well will be located within a playing field area due to planned athletic field		

changes.

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
34	SW	0.86	4,543.85	61.47	WELL CONST PERM

Permit No:	147919-1	County Name:	Orange
Permit Type:	Water Well Construction	Parcel ID:	312203000000005
Permit Status:	Active	Section ID:	3
Cur Permit Iss Dt:	11/2/2016	Township ID:	22S
Latitude:	283601	Range ID:	31E
Longitude:	811149		
Project Description:	This is a permit to modify Potable Well 4 at the University of Central Florida (CUP 3202).		

Well Surveillance Program Water Wells

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
16	NW	0.65	3,413.57	51.16	WATER WELLS

FLUW ID:	AAH7698	Property ID:	
Permit No:	3590988	Parcel ID:	
WSRP ID:		Project ID:	DEP
Other ID:		Loc ID:	154390
Req No:		GPS ID:	154390
Status:	ACTIVE	Resident Type:	
Well Type Code:	40	Name:	PALM VALLEY MOBILE HOME PARK
Well Type:	Large (>150,000 gpd) Community PWS	First Name:	
Well Depth:	0	Last Name:	
Potable Status:	POTABLE	Phone:	
Action:		Phone Ext:	
Casing Material:	BLACK STEEL	County:	SEMINOLE
Length:		Height Abv Ellipsoid:	0
Diameter:		Longitude:	-81.196322
Sanitary Seal:		Latitude:	28.620527
Agency:		Datum:	WS1984
Large PWS:	YES	GPS Date:	1/9/2003 0:00:00
PWS Design:	900000	Loc Method Code:	DGPS
PWS Verify:	0	Loc Method:	Differentially Corrected GPS
Insp F Name:		Software:	
Insp L Name:		Streetside:	
Insp CHD:			
Well Type De:			
Address:	3700 E PALM VALLEY CIRCLE		
City:	OVIEDO		
Comment:	Population served: 1702 - DATUM :84;Rettage as FL PWR 1		

Wells and Additional Sources Detail Report

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
17	NW	0.65	3,415.44	51.16	WATER WELLS

FLUW ID:	AAC0774	Property ID:	
Permit No:	3590988	Parcel ID:	
WSRP ID:		Project ID:	SUPER
Other ID:		Loc ID:	284252
Req No:		GPS ID:	284252
Status:	ACTIVE	Resident Type:	
Well Type Code:	40	Name:	PALM VALLEY WELL NO 1
Well Type:	Large (>150,000 gpd) Community PWS	First Name:	
Well Depth:	400	Last Name:	
Potable Status:	POTABLE	Phone:	
Action:		Phone Ext:	
Casing Material:	Black Steel	County:	SEMINOLE
Length:	150	Height Abv Ellipsoid:	-14.28
Diameter:	8	Longitude:	-81.196346
Sanitary Seal:	Yes	Latitude:	28.620518
Agency:		Datum:	WS1984
Large PWS:	YES	GPS Date:	6/17/1999 0:00:00
PWS Design:	900000	Loc Method Code:	DGPS
PWS Verify:	0	Loc Method:	Differentially Corrected GPS
Insp F Name:		Software:	
Insp L Name:		Streetside:	
Insp CHD:			
Well Type De:			
Address:	3756 CHRISTMAS PALM PL		
City:	OVIEDO		
Comment:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
18	NW	0.66	3,505.78	49.82	WATER WELLS

FLUW ID:	AAC0773	Property ID:	
Permit No:	3590988	Parcel ID:	
WSRP ID:		Project ID:	SUPER
Other ID:		Loc ID:	284250
Req No:		GPS ID:	284250
Status:	ACTIVE	Resident Type:	
Well Type Code:	40	Name:	PALM VALLEY WELL NO 2
Well Type:	Large (>150,000 gpd) Community PWS	First Name:	
Well Depth:	455	Last Name:	
Potable Status:	POTABLE	Phone:	
Action:		Phone Ext:	
Casing Material:	Black Steel	County:	SEMINOLE

Length:	182	Height Abv Ellipsoid:	-7.73
Diameter:	10	Longitude:	-81.196324
Sanitary Seal:	Yes	Latitude:	28.620799
Agency:		Datum:	WS1984
Large PWS:	YES	GPS Date:	6/17/1999 0:00:00
PWS Design:	900000	Loc Method Code:	DGPS
PWS Verify:	0	Loc Method:	Differentially Corrected GPS
Insp F Name:		Software:	
Insp L Name:		Streetside:	
Insp CHD:			
Well Type De:			
Address:	3756 CHRISTMAS PALM PL		
City:	OVIEDO		
Comment:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
28	SW	0.85	4,504.64	61.47	WATER WELLS

FLUW ID:	AAE8580	Property ID:	
Permit No:	3480409	Parcel ID:	
WSRP ID:		Project ID:	SUPER
Other ID:		Loc ID:	306502
Req No:		GPS ID:	306502
Status:	ACTIVE	Resident Type:	
Well Type Code:	40	Name:	UCF WELL4
Well Type:	Large (>150,000 gpd) Community PWS	First Name:	
Well Depth:		Last Name:	
Potable Status:	POTABLE	Phone:	
Action:		Phone Ext:	
Casing Material:	OTHER	County:	ORANGE
Length:		Height Abv Ellipsoid:	-11.78
Diameter:	12	Longitude:	-81.196857
Sanitary Seal:		Latitude:	28.600364
Agency:		Datum:	WS1984
Large PWS:	YES	GPS Date:	9/17/2001 16:27:00
PWS Design:	3024000	Loc Method Code:	DGPS
PWS Verify:	0	Loc Method:	Differentially Corrected GPS
Insp F Name:		Software:	
Insp L Name:		Streetside:	
Insp CHD:			
Well Type De:			
Address:	NEAR GREENHOUSE		
City:	ORLANDO		
Comment:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
38	SW	0.90	4,742.67	61.04	WATER WELLS

FLUW ID:	AAE8581	Property ID:	
Permit No:	3480409	Parcel ID:	
WSRP ID:		Project ID:	SUPER
Other ID:		Loc ID:	306504
Req No:		GPS ID:	306504
Status:	ACTIVE	Resident Type:	
Well Type Code:	40	Name:	UCF WELL3
Well Type:	Large (>150,000 gpd) Community PWS	First Name:	
Well Depth:		Last Name:	
Potable Status:	POTABLE	Phone:	
Action:		Phone Ext:	
Casing Material:	OTHER	County:	ORANGE
Length:		Height Abv Ellipsoid:	-19.55
Diameter:	12	Longitude:	-81.197258
Sanitary Seal:		Latitude:	28.599798
Agency:		Datum:	WS1984
Large PWS:	YES	GPS Date:	9/17/2001 15:13:00
PWS Design:	3024000	Loc Method Code:	DGPS
PWS Verify:	0	Loc Method:	Differentially Corrected GPS
Insp F Name:		Software:	
Insp L Name:		Streetside:	
Insp CHD:			
Well Type De:			
Address:	IN ARBORETUM		
City:	ORLANDO		
Comment:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
41	SW	0.93	4,896.95	61.11	WATER WELLS

FLUW ID:	AAE8583	Property ID:	
Permit No:	3480409	Parcel ID:	
WSRP ID:		Project ID:	SUPER
Other ID:		Loc ID:	306508
Req No:		GPS ID:	306508
Status:	ACTIVE	Resident Type:	
Well Type Code:	40	Name:	UCF WELL2
Well Type:	Large (>150,000 gpd) Community PWS	First Name:	
Well Depth:		Last Name:	
Potable Status:	POTABLE	Phone:	
Action:		Phone Ext:	
Casing Material:	OTHER	County:	ORANGE
Length:		Height Abv Ellipsoid:	-3.65

Diameter:	10	Longitude:	-81.197258
Sanitary Seal:		Latitude:	28.599344
Agency:		Datum:	WS1984
Large PWS:	YES	GPS Date:	9/17/2001 14:57:00
PWS Design:	3024000	Loc Method Code:	DGPS
PWS Verify:	0	Loc Method:	Differentially Corrected GPS
Insp F Name:		Software:	
Insp L Name:		Streetside:	
Insp CHD:			
Well Type De:			
Address:	PARKING AREA TOWARDS ARBORETUM		
City:	ORLANDO		
Comment:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
45	SW	0.96	5,044.34	67.15	WATER WELLS

FLUW ID:	AAE8582	Property ID:	
Permit No:	3480409	Parcel ID:	
WSRP ID:		Project ID:	SUPER
Other ID:		Loc ID:	306506
Req No:		GPS ID:	306506
Status:	ACTIVE	Resident Type:	
Well Type Code:	40	Name:	UCF WELL1
Well Type:	Large (>150,000 gpd) Community PWS	First Name:	
Well Depth:		Last Name:	
Potable Status:	POTABLE	Phone:	
Action:		Phone Ext:	
Casing Material:	OTHER	County:	ORANGE
Length:		Height Abv Ellipsoid:	-1.76
Diameter:	12	Longitude:	-81.19796
Sanitary Seal:		Latitude:	28.599149
Agency:		Datum:	WS1984
Large PWS:	YES	GPS Date:	9/17/2001 16:21:00
PWS Design:	3024000	Loc Method Code:	DGPS
PWS Verify:	0	Loc Method:	Differentially Corrected GPS
Insp F Name:		Software:	
Insp L Name:		Streetside:	
Insp CHD:			
Well Type De:			
Address:	PARKING AREA TOWARDS FUTURE		
City:	ORLANDO		
Comment:			

Radon Information

This section lists any relevant radon information found for the target property.

Federal EPA Radon Zone for *SEMINOLE* County: **3**
Federal EPA Radon Zone for *ORANGE* County: **3**

Zone 1: Counties with predicted average indoor radon screening levels greater than 4 pCi/L
Zone 2: Counties with predicted average indoor radon screening levels from 2 to 4 pCi/L
Zone 3: Counties with predicted average indoor radon screening levels less than 2 pCi/L

Federal Area Radon Information for *SEMINOLE* County

No Measures/Homes:	65
Arithmetic Mean:	0.6
Standard Deviation:	0.7
Maximum:	4.4
% >4 pCi/L:	1.5
% >8 pCi/L:	-
% >12 pCi/L:	-
Notes on Data Table:	TABLE 2. Indoor radon results from the Florida population-based radon survey, by county.

Federal Area Radon Information for *ORANGE* County

No Measures/Homes:	157
Arithmetic Mean:	0.5
Standard Deviation:	0.7
Maximum:	4.6
% >4 pCi/L:	1.9*
% >8 pCi/L:	-
% >12 pCi/L:	-
Notes on Data Table:	TABLE 2. Indoor radon results from the Florida population-based radon survey, by county.

Appendix

Federal Sources

FEMA National Flood Hazard Layer — **FEMA FLOOD**

The National Flood Hazard Layer (NFHL) data incorporates Flood Insurance Rate Map (FIRM) databases published by the Federal Emergency Management Agency (FEMA), and any Letters Of Map Revision (LOMRs) that have been issued against those databases since their publication date. The FIRM Database is the digital, geospatial version of the flood hazard information shown on the published paper FIRMs. The FIRM Database depicts flood risk information and supporting data used to develop the risk data. The FIRM Database is derived from Flood Insurance Studies (FISs), previously published FIRMs, flood hazard analyses performed in support of the FISs and FIRMs, and new mapping data, where available.

Indoor Radon Data — **INDOOR RADON**

Indoor radon measurements tracked by the Environmental Protection Agency(EPA) and the State Residential Radon Survey.

Public Water Systems Violations and Enforcement Data — **PWSV**

List of drinking water violations and enforcement actions from the Safe Drinking Water Information System (SDWIS) made available by the Drinking Water Protection Division of the US EPA's Office of Groundwater and Drinking Water. Enforcement sensitive actions are not included in the data released by the EPA. Address information provided in SWDIS may correspond either with the physical location of the water system, or with a contact address.

Radon Zone Level — **RADON ZONE**

Areas showing the level of Radon Zones (level 1, 2 or 3) by county. This data is maintained by the Environmental Protection Agency (EPA).

Safe Drinking Water Information System (SDWIS) — **SDWIS**

The Safe Drinking Water Information System (SDWIS) contains information about public water systems as reported to US Environmental Protection Agency (EPA) by the states. Addresses may correspond with the location of the water system, or with a contact address.

Soil Survey Geographic database — **SSURGO**

The Soil Survey Geographic database (SSURGO) contains information about soil as collected by the National Cooperative Soil Survey at the Natural Resources Conservation Service (NRCS). Soil maps outline areas called map units. The map units are linked to soil properties in a database. Each map unit may contain one to three major components and some minor components.

U.S. Fish & Wildlife Service Wetland Data — **US WETLAND**

The U.S. Fish & Wildlife Service Wetland layer represents the approximate location and type of wetlands and deepwater habitats in the United States.

USGS Current Topo — **US TOPO**

US Topo topographic maps are produced by the National Geospatial Program of the U.S. Geological Survey (USGS). The project was launched in late 2009, and the term "US Topo" refers specifically to quadrangle topographic maps published in 2009 and later.

USGS Geology — **US GEOLOGY**

Seamless maps depicting geological information provided by the United States Geological Survey (USGS).

USGS National Water Information System — **FED USGS**

The U.S. Geological Survey (USGS)'s National Water Information System (NWIS) is the nation's principal repository of water resources data. This database includes comprehensive information of well-construction details, time-series data for gage height, streamflow, groundwater level, and precipitation and water use data.

State Sources

Florida Subsidence Incident Reports — **SINKHOLES**

A list of Florida Subsidence Incidents made available by the Florida Department of Environmental

Protection (DEP) and maintained by the Florida Geological Survey. Sinkholes are closed depressions in areas underlain by soluble rock such as limestone, dolostone, and in some states gypsum and salt. Other subterranean events can cause holes, depressions, or subsidence of the land surface that may mimic sinkhole activity. Commonly, a reported depression is not verified by a licensed professional geologist to be a true sinkhole, and the cause of subsidence is not known. Such an event is called a subsidence incident.

Oil and Gas Wells **OGW**

The Oil and Gas Program is the permitting authority within the Florida Department of Environmental Protection's Mining and Minerals Regulation Program. Companies interested in exploration or production of hydrocarbons in Florida are regulated by the Oil and Gas Program. This data is made available by Florida Department of Environmental Protection's Oil and Gas program.

Public Water Supply Wells **PWSW**

The Public Water Supply Wells (PWSW) data consist of public water supply facilities and their wells in Florida. This data is made available by Florida Department of Environmental Protection, Water Compliance Assurance Program.

Underground Injection Control Wells **UIC**

Class I Underground Injection Control (UIC) wells that are currently or were previously active, as well as proposed sites, regulated by the Florida Department of Environmental Protection (FDEP). Class I UIC wells are used to inject nonhazardous waste, hazardous waste (new hazardous waste wells were banned in 1983), or municipal waste below the lowermost underground source of drinking water.

Water Use Permits Sites - South Florida Water Management District **WELLS**

List of Water Use Permitting Facilities consisting of wells, pumps and culverts, made available by the South Florida Water Management District. The facilities represent a subset of all wells, pumps and culverts associated with Water Use Permits. A Water Use Permit is required for all water uses except single family and duplex use and fire fighting.

Water Well Completions - Northwest Florida Water Management District **WATER WELLS**

A list of existing well permits provided by the Northwest Florida Water Management District, representing records for wells permitted for construction/repair/abandonment beginning in the year 1976; does not typically contain data on wells constructed prior to 1976. The data provided may therefore only represent a fraction of existing wells. The data are provided by water well contractors on completion reports and, in most cases, has not been verified by District staff.

Water Well Completions - St. Johns River Water Management District **WATER WELLS**

A list of wells in the Water Well Completion Report database made available by the St. Johns River Water Management District (SJRWMD). The SJRWMD advises that data reported in the Water Well Completion Report are obtained from multiple sources, including SJRWMD, delegated counties, and other regulatory agencies; that they cannot assure that contributors have used consistent measurement techniques or adhered to approved quality control standards; and that, although the SJRWMD has made reasonable attempts to assure the quality of the data contained herein, in most cases, the information is reported as received.

Water Well Completions - Suwanee River Water Management District **WELLS**

A list of wells in the Water Well Completion Report database made available by the Suwanee River Water Management District department (SRWMD). The SRWMD advises that data reported in the Water Well Completion Report are obtained from multiple sources, including SRWMD, delegated counties, and other regulatory agencies; that they cannot assure that contributors have used consistent measurement techniques or adhered to approved quality control standards; and that, although the SRWMD has made reasonable attempts to assure the quality of the data contained herein, in most cases, the information is reported as received.

Water Well Construction Permits **WELL CONST PERM**

A list of water well construction permits issued by the St. Johns River Water Management District (SJRWMD).

Water Well Construction Permits - Southwest Florida Water Management District **WATER WELLS**

Locations of well construction sites permitted within the District, including historical sites. A Well Construction Permit is required prior to installation of a water well within the District. The permits ensure that wells are constructed by qualified contractors and meet rigid safety and durability standards.

Appendix

Water Wells - Suwanee River Water Management District **WATER WELLS**

A list of water wells made available by the Suwanee River Water Management District department (SRWMD). The SRWMD advises that data are obtained from multiple sources including SRWMD, delegated counties, and other regulatory agencies; that they cannot assure that contributors have used consistent measurement techniques or adhered to approved quality control standards; and that, although the SRWMD has made reasonable attempts to assure the quality of the data contained herein, in most cases, the information is reported as received.

Well Surveillance Program Water Wells **WATER WELLS**

A list of privately and publicly owned potable wells from the Florida Department of Health's (DOH) Well Surveillance Program.

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Reliance on information in Report: The Physical Setting Report (PSR) DOES NOT replace a full Phase I Environmental Site Assessment but is solely intended to be used as a review of environmental databases and physical characteristics for the site or adjacent properties.

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APPENDIX K

Netronline Environmental Report

McCulloch Road
28.611916000000047, -81.18358825390602
prepared for: Godwin
Ref: McCulloch and Orion Blvd

February 2, 2022

Environmental Radius Report

NETRONLINE

2055 E. Rio Salado Pkwy
Tempe, AZ 85381
480-967-6752

Summary

	< 1/4	1/4 - 1/2	1/2 - 1
National Priorities List (NPL)			
CERCLIS List			
CERCLIS NFRAP			
RCRA CORRACTS Facilities			
RCRA non-CORRACTS TSD Facilities			
Federal Institutional Control / Engineering Control Registry			
Emergency Response Notification System (ERNS)			
US Toxic Release Inventory			
US RCRA Generators (CESQG, SQG, LQG)			1
US ACRES (Brownfields)			
US NPDES		2	19
US Air Facility System (AIRS / AFS)			
FL Storage Tanks		2	1
FL Leaking Storage Tanks			
FL Brownfield Sites			
EPA Superfund - National Priorities List			
FL Solid Waste Facilities			
FL Dry Cleaning Program Sites			
FL Groundwater Contamination Areas			
FL State Cleanup Sites			
FL Fuel Facilities		1	
FL Activity Use Restrictions			

National Priorities List (NPL)

This database includes Proposed Sites, Final Sites and Deleted NPL Sites. The Superfund Program, administered under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) is an EPA Program to locate, investigate, and clean up the worst hazardous waste sites throughout the United States. The NPL (National Priorities List) is the list of national priorities among the known releases or threatened releases of hazardous substances, pollutants, or contaminants throughout the United States and its territories. The NPL is intended primarily to guide the EPA in determining which sites warrant further investigation.

The boundaries of an NPL site are not tied to the boundaries of the property on which a facility is located. The release may be contained with a single property's boundaries or may extend across property boundaries onto other properties. The boundaries can, and often do change as further information on the extent and degree of contamination is obtained.

This database returned no results for your area

CERCLIS List

The United States Environmental Protection Agency (EPA) investigates known or suspected uncontrolled or abandoned hazardous substance facilities under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). EPA maintains a comprehensive list of these facilities in a database known as the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS). These sites have either been investigated or are currently under investigation by the EPA for release or threatened release of hazardous substances. Once a site is placed in CERCLIS, it may be subjected to several levels of review and evaluation and ultimately placed on the National Priority List (NPL).

CERCLIS sites designated as "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an intitial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund Action or NPL consideration.

This database returned no results for your area

CERCLIS NFRAP

As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" NFRAP have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the site being placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed these NFRAP sites from CERCLIS to lift unintended barriers to the redevelopment of these properties. This policy change is part of EPA"s Brownfields Redevelopment Program to help cities, states, private investors and affected citizens promote economic redevelopment of unproductive urban sites.

This database returned no results for your area

RCRA CORRACTS Facilities

The United States Environmental Protection Agency (EPA) regulates hazardous waste under the Resource Conservation and Recovery Act (RCRA). The EPA maintains the Corrective Action Report (CORRACTS) database of Resource Conservation and Recovery Act (RCRA) facilities that are undergoing "corrective action." A "corrective action order" is issued pursuant to RCRA Section 3008(h) when there has been a release of hazardous waste or constituents into the environment from a RCRA facility. Corrective actions may be required beyond the facility"s boundary and can be required regardless of when the release occurred, even if it predated RCRA.

This database returned no results for your area

RCRA non-CORRACTS TSD Facilities

The United States Environmental Protection Agency (EPA) regulates hazardous waste under the Resource Conservation and Recovery Act (RCRA). The EPA"s RCRA Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilites database is a compilation by the EPA of facilities that report generation, storage, transportation, treatment, or disposal of hazardous waste. RCRA Permitted Treatment, Storage, Disposal Facilities (RCRA-TSD) are facilities which treat, store and/or dispose of hazardous waste.

This database returned no results for your area

Federal Institutional Control / Engineering Control Registry

Federal Institutional Control / Engineering Control Registry

This database returned no results for your area

Emergency Response Notification System (ERNS)

The Emergency Response Notification System (ERNS) is a national computer database used to store information on unauthorized releases of oil and hazardous substances. The program is a cooperative effort of the Environmental Protection Agency, the Department of Transportation Research and Special Program Administration"s John Volpe National Transportation System Center and the National Response Center. There are primarily five Federal statutes that require release reporting: the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) section 103; the Superfund Amendments and Reauthorization Act(SARA) Title III Section 304; the Clean Water Act of 1972(CWA) section 311(b)(3); and the Hazardous Material Transportation Act of 1974(HMTA section 1808(b).

This database returned no results for your area

US Toxic Release Inventory

The Toxics Release Inventory (TRI) is a publicly available EPA database that contains information on toxic chemical releases and other waste management activities reported annually by certain covered industry groups as well as federal facilities. TRI reporters for all reporting years are provided in the file.

This database returned no results for your area

US RCRA Generators (CESQG, SQG, LQG)

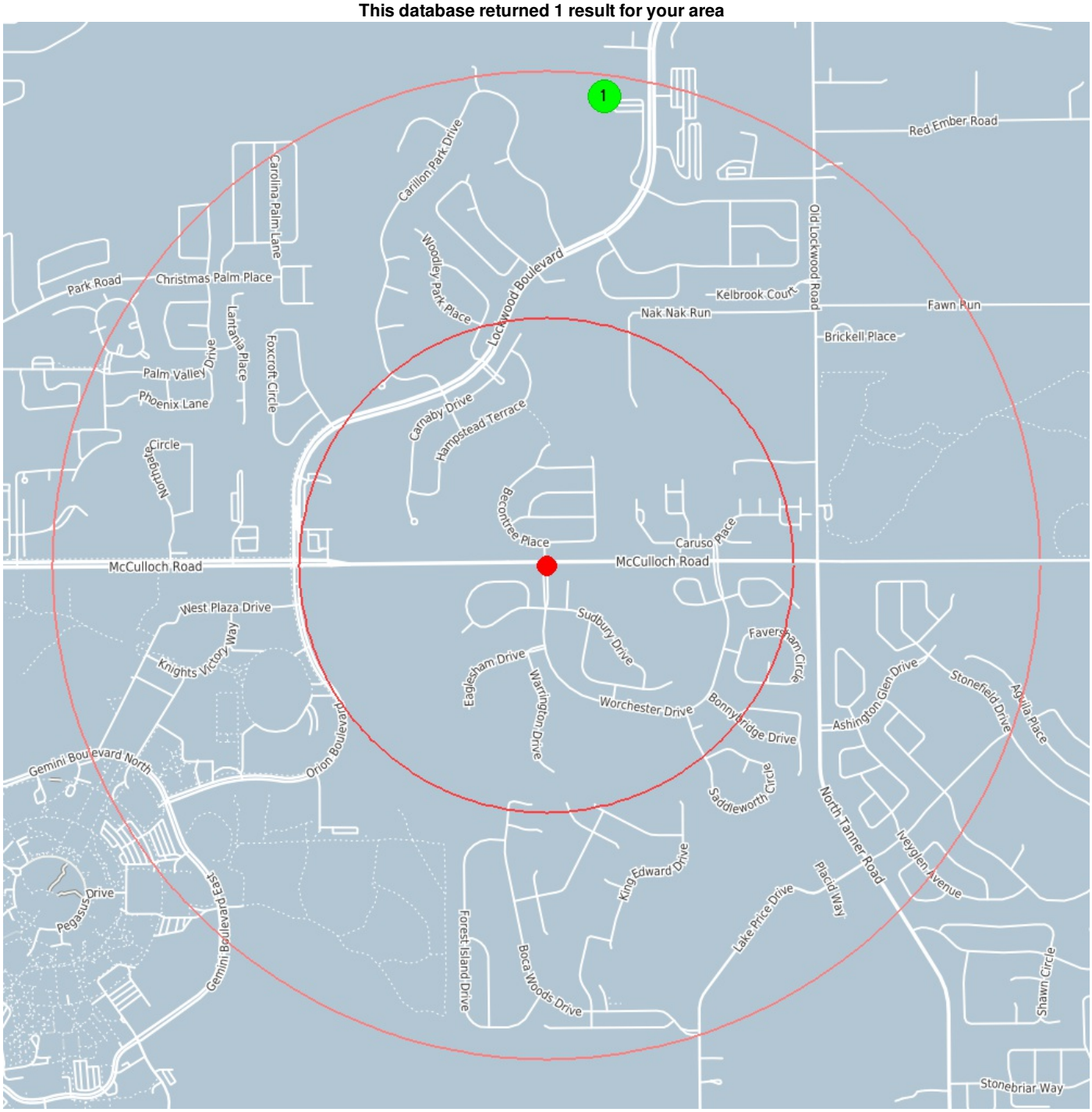
The United States Environmental Protection Agency (EPA) regulates hazardous waste under the Resource Conservation and Recovery Act (RCRA). EPA maintains a database of facilities, which generate hazardous waste or treat, store, and/or dispose of hazardous wastes.

Conditionally Exempt Small Quantity Generators (CESQG) generate 100 kilograms or less per month of hazardous waste, or 1 kilogram or less per month of acutely hazardous waste.

Small Quantity Generators (SQG) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month.

Large Quantity Generators (LQG) generate 1,000 kilograms per month or more of hazardous waste, or more than 1 kilogram per month of acutely hazardous waste.

This database returned 1 result for your area



center 28.611915588379 -81.183586120605 0.5 mile 1.0 mile

US RCRA Generators (CESQG, SQG, LQG)

1

Coordinates	28.625643, -81.181653
Distance to site	5045 ft / 0.956 mi N

Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110020166229
EPA Identifier	110020166229
Primary Name	PAUL J HAGERTY HIGH SCHOOL
Address	3225 LOCKWOOD BLVD
City	OVIEDO
County	SEMINOLE
State	FL
Zipcode	32765
NAICS Codes	611110
SIC Codes	8211
SIC Descriptions	ELEMENTARY AND SECONDARY SCHOOLS
Programs	FDM:5633, NPDES:FLR10W073, RCRAINFO:FLR000145565
Program Interests	CESQG, ICIS-NPDES NON-MAJOR, STATE MASTER, STORM WATER CONSTRUCTION
Updated On	05-MAR-2013 10:24:05
Recorded On	30-DEC-2004 16:57:25
NAICS Descriptions	ELEMENTARY AND SECONDARY SCHOOLS.

US ACRES (Brownfields)

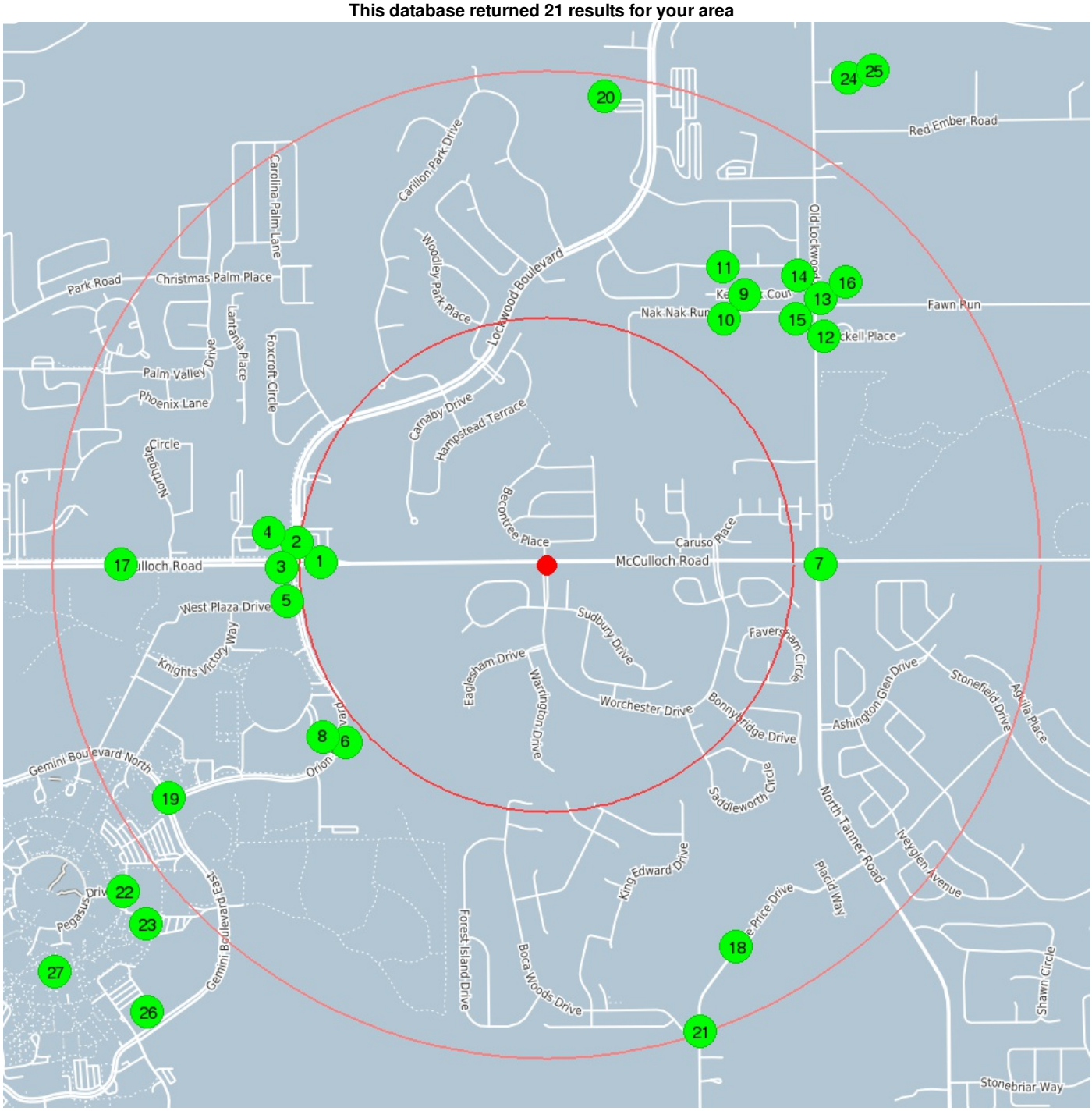
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties protects the environment, reduces blight, and takes development pressures off greenspaces and working lands. The Assessment, Cleanup and Redevelopment Exchange System (ACRES) is an online database for Brownfields Grantees to electronically submit data directly to The United States Environmental Protection Agency (EPA)

This database returned no results for your area

US NPDES

The NPDES module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

This database returned 21 results for your area



center 28.611915588379 -81.183586120605 0.5 mile 1.0 mile

US NPDES

1

Coordinates	28.61201, -81.19113
Distance to site	2416 ft / 0.458 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110046308713
EPA Identifier	110046308713
Primary Name	NORTHVIEW STUDENT HOUSING
Address	1680 E MCCULLOCH RD
City	OVIEDO
County	SEMINOLE
State	FL
Zipcode	32765
Programs	NPDES:FLR10LT74
Program Interests	ICIS-NPDES NON-MAJOR, STORM WATER CONSTRUCTION
Updated On	07-OCT-2016 17:52:16
Recorded On	31-JUL-2012 10:52:15

2

Coordinates	28.61208, -81.19137
Distance to site	2493 ft / 0.472 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110070134994
EPA Identifier	110070134994
Primary Name	7-ELEVEN #37926
Address	1640 MCCULLOCH RD
City	OVIEDO
County	SEMINOLE
State	FL
Zipcode	32765
Programs	NPDES:FLG071931
Program Interests	ICIS-NPDES NON-MAJOR
Recorded On	03-NOV-2017 13:42:44

3

Coordinates	28.612144, -81.192056
Distance to site	2713 ft / 0.514 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110055364323
EPA Identifier	110055364323
Primary Name	MCCULLOCH RD & LOCKWOOD BLVD INTERSECTION IMPROVEMENTS
Address	UNKNOWN
City	OVIEDO
County	SEMINOLE
State	FL
Zipcode	32762
Programs	NPDES:FLR10MT67
Program Interests	ICIS-NPDES NON-MAJOR, STORM WATER CONSTRUCTION
Updated On	07-OCT-2016 16:05:20
Recorded On	09-JUL-2013 07:48:56

4

Coordinates	28.6122, -81.1921
Distance to site	2728 ft / 0.517 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110070393499
EPA Identifier	110070393499
Primary Name	COMMUNICATION LINE INSTALL-AT&T PROJECT #A01AXK6
Address	UNKNOWN
City	OVIEDO
State	FL
Zipcode	32762
Programs	NPDES:FLR10SD22
Program Interests	ICIS-NPDES NON-MAJOR
Recorded On	07-DEC-2018 13:28:45

5

Coordinates	28.610833, -81.192222
Distance to site	2793 ft / 0.529 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110032791352
EPA Identifier	110032791352
Primary Name	PROJECT Y - PHASE I UCF PARKIN
Address	N GEMINI BLVD
City	ORLANDO
County	ORANGE
State	FL
Zipcode	32816
Programs	FDM:77880, NPDES:FLR10ER68
Program Interests	ICIS-NPDES NON-MAJOR, STATE MASTER, STORM WATER CONSTRUCTION
Updated On	05-MAR-2013 10:24:43
Recorded On	02-DEC-2007 16:27:10

6

Coordinates	28.606722, -81.190278
Distance to site	2860 ft / 0.542 mi SW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110020136967
EPA Identifier	110020136967
Primary Name	UNIVERSITY OF CENTRAL FLORIDA POND 2 - H
Address	UCF
City	ORLANDO
County	ORANGE
State	FL
Zipcode	32816
Programs	FDM:29280, NPDES:FLR10W302
Program Interests	ICIS-NPDES NON-MAJOR, STATE MASTER, STORM WATER CONSTRUCTION
Updated On	05-MAR-2013 10:22:49
Recorded On	30-DEC-2004 15:36:09

7

Coordinates	28.611944, -81.174444
Distance to site	2927 ft / 0.555 mi E
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110024384101
EPA Identifier	110024384101
Primary Name	FIFTH - THIRD BANK - MCCULLOCH
Address	SE CORNER OF TANNER & MCCULLOC
City	ORLANDO
County	ORANGE
State	FL
Zipcode	32801
Programs	FDM:29835, FDM:29836, FDM:30267, NPDES:FLR10BG91
Program Interests	ICIS-NPDES NON-MAJOR, STATE MASTER, STORM WATER CONSTRUCTION
Updated On	05-MAR-2013 10:24:03
Recorded On	30-JAN-2006 17:52:57

8

Coordinates	28.606667, -81.190833
Distance to site	3008 ft / 0.570 mi SW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110021022748
EPA Identifier	110021022748
Primary Name	UCF ATHLETIC NODE MASS GRADING
Address	UNIVERSITY OF CENTRAL FLORIDA
City	ORLANDO
County	ORANGE
State	FL
Zipcode	32816
Programs	FDM:29282, NPDES:FLR10AB41
Program Interests	ICIS-NPDES NON-MAJOR, STATE MASTER, STORM WATER CONSTRUCTION
Updated On	05-MAR-2013 10:22:00
Recorded On	06-MAY-2005 16:43:33

9

Coordinates	28.619831, -81.176961
Distance to site	3583 ft / 0.679 mi NE
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110055624436
EPA Identifier	110055624436
Primary Name	ELLINGSWORTH SUBDIVISION
Address	NW CORNER OF NAK NAK RUN & OLD LOCKWOOD RD
City	OVIEDO
County	SEMINOLE
State	FL
Zipcode	32765
Programs	NPDES:FLR10MY00
Program Interests	ICIS-NPDES NON-MAJOR, STORM WATER CONSTRUCTION
Updated On	07-OCT-2016 16:12:33
Recorded On	06-SEP-2013 15:59:27

10

Coordinates	28.6198, -81.1769
Distance to site	3585 ft / 0.679 mi NE
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110057197108
EPA Identifier	110057197108
Primary Name	ELLINGSWORTH SUBDIVISION
Address	UNKNOWN
City	OVIEDO
County	SEMINOLE
State	FL
Zipcode	32765
Programs	NPDES:FLR10NN53
Program Interests	ICIS-NPDES NON-MAJOR, STORM WATER CONSTRUCTION
Updated On	11-JAN-2016 14:26:18
Recorded On	07-MAR-2014 14:19:29

11

Coordinates	28.62, -81.176944
Distance to site	3636 ft / 0.689 mi NE
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110024392539
EPA Identifier	110024392539
Primary Name	ELLINGSWORTH SUBDIVISION
Address	NW CORNER OF NAK NAK RUN & OLD
City	OVIEDO
County	SEMINOLE
State	FL
Zipcode	32765
Programs	FDM:31053, NPDES:FLR10BR60
Program Interests	ICIS-NPDES NON-MAJOR, STATE MASTER, STORM WATER CONSTRUCTION
Updated On	05-JUL-2016 10:00:52
Recorded On	30-JAN-2006 18:00:23

12

Coordinates	28.618606, -81.174319
Distance to site	3842 ft / 0.728 mi NE
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110064876567
EPA Identifier	110064876567
Primary Name	HAMPTON ESTATES
Address	UNKNOWN
City	OVIEDO
County	SEMINOLE COUNTY
State	FL
Zipcode	32765
Programs	NPDES:FLR10PL98
Program Interests	ICIS-NPDES NON-MAJOR, STORM WATER CONSTRUCTION
Updated On	07-OCT-2016 16:03:44
Recorded On	07-OCT-2015 12:57:54

13

Coordinates	28.619722, -81.174444
Distance to site	4084 ft / 0.774 mi NE
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110035746048
EPA Identifier	110035746048
Primary Name	HAMPTON ESTATES SUBDIVISION
Address	SE QUADRANT OF OLD LOCKWOOD ROAD
City	OVIEDO
County	SEMINOLE
State	FL
Zipcode	32765
Programs	FDM:2672, NPDES:FLR10OS69
Program Interests	ICIS-NPDES NON-MAJOR, STATE MASTER, STORM WATER CONSTRUCTION
Updated On	11-JAN-2016 15:06:40
Recorded On	24-APR-2008 12:29:56

14

Coordinates	28.619722, -81.174444
Distance to site	4084 ft / 0.774 mi NE
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110020545828
EPA Identifier	110020545828
Primary Name	HAMPTON ESTATES SUBDIVISION
Address	SE QUADRANT OF OLD LOCKWOOD RO
City	OVIEDO
County	SEMINOLE
State	FL
Zipcode	32765
Programs	NPDES:FLR10P433
Program Interests	ICIS-NPDES NON-MAJOR, STORM WATER CONSTRUCTION
Updated On	05-MAR-2013 10:23:27
Recorded On	25-JAN-2005 08:05:01

15

Coordinates	28.6198, -81.1745
Distance to site	4091 ft / 0.775 mi NE
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110070390281
EPA Identifier	110070390281
Primary Name	WHITETAIL RUN
Address	3673 KERSHAW PLACE
City	OVIEDO
State	FL
Zipcode	32765
Programs	NPDES:FLR20CK79
Program Interests	ICIS-NPDES NON-MAJOR
Recorded On	07-DEC-2018 12:51:32

16

Coordinates	28.6202, -81.1736
Distance to site	4399 ft / 0.833 mi NE
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110070215830
EPA Identifier	110070215830
Primary Name	OLD LOCKWOOD FAWN RUN PROPERTY
Address	UNKNOWN
City	OVIEDO
County	SEMINOLE COUNTY
State	FL
Zipcode	32765
Programs	NPDES:FLR10RP75
Program Interests	ICIS-NPDES NON-MAJOR
Recorded On	06-APR-2018 14:29:55

17

Coordinates	28.611944, -81.197778
Distance to site	4544 ft / 0.861 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110020732073
EPA Identifier	110020732073
Primary Name	U7NIVERSITY CARILLON UNITES ME
Address	1600 E MCCULLOCH RD
City	OVIEDO
County	SEMINOLE
State	FL
Zipcode	32765-9404
Programs	FDM:6519, NPDES:FLR10Z425
Program Interests	ICIS-NPDES NON-MAJOR, STATE MASTER, STORM WATER CONSTRUCTION
Updated On	05-JUL-2016 11:05:28
Recorded On	01-MAR-2005 15:45:41

18

Coordinates	28.60073, -81.177273
Distance to site	4553 ft / 0.862 mi SE
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110069215628
EPA Identifier	110069215628
Primary Name	LAKE PRICE DR.
Address	LAKE PRICE DR.
City	ORLANDO
County	ORANGE COUNTY
State	FL
Zipcode	32826
Programs	NPDES:FLR20AQ29
Program Interests	ICIS-NPDES NON-MAJOR, STORM WATER CONSTRUCTION
Updated On	07-OCT-2016 17:14:13
Recorded On	03-JUN-2016 17:41:40

19

Coordinates	28.605083, -81.196194
Distance to site	4745 ft / 0.899 mi SW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110020169565
EPA Identifier	110020169565
Primary Name	UPTOWN STUDENT HOUSING PHASE O
Address	UCF
City	ORLANDO
County	ORANGE
State	FL
Zipcode	32816
Programs	NPDES:FLR10W303
Program Interests	ICIS-NPDES NON-MAJOR, STORM WATER CONSTRUCTION
Updated On	05-MAR-2013 10:22:38
Recorded On	30-DEC-2004 17:07:45

20

Coordinates	28.625643, -81.181653
Distance to site	5045 ft / 0.956 mi N
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110020166229
EPA Identifier	110020166229
Primary Name	PAUL J HAGERTY HIGH SCHOOL
Address	3225 LOCKWOOD BLVD
City	OVIEDO
County	SEMINOLE
State	FL
Zipcode	32765
NAICS Codes	611110
SIC Codes	8211
SIC Descriptions	ELEMENTARY AND SECONDARY SCHOOLS
Programs	FDM:5633, NPDES:FLR10W073, RCRAINFO:FLR000145565
Program Interests	CESQG, ICIS-NPDES NON-MAJOR, STATE MASTER, STORM WATER CONSTRUCTION
Updated On	05-MAR-2013 10:24:05
Recorded On	30-DEC-2004 16:57:25
NAICS Descriptions	ELEMENTARY AND SECONDARY SCHOOLS.

21

Coordinates	28.59823, -81.17846
Distance to site	5255 ft / 0.995 mi S
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110027855658
EPA Identifier	110027855658
Primary Name	LAKE PRICE ESTATES
Address	PERCIVAL RD & LAKE PRICE DR
City	ORLANDO
County	ORANGE
State	FL
Zipcode	32826
Programs	FDM:75876, NPDES:FLR10EC65
Program Interests	ICIS-NPDES NON-MAJOR, STATE MASTER, STORM WATER CONSTRUCTION
Updated On	05-JUL-2016 10:05:56
Recorded On	22-DEC-2006 10:56:10

22

Coordinates	28.60234, -81.1977
Distance to site	5712 ft / 1.082 mi SW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110024398267
EPA Identifier	110024398267
Primary Name	UCF CREOL EXPANSION
Address	MERCURY CIR
City	ORLANDO
County	ORANGE
State	FL
Zipcode	32816
Programs	FDM:31507, NPDES:FLR10BV54
Program Interests	ICIS-NPDES NON-MAJOR, STATE MASTER, STORM WATER CONSTRUCTION
Updated On	05-MAR-2013 10:23:24
Recorded On	30-JAN-2006 18:04:47

23

Coordinates	28.601389, -81.196944
Distance to site	5748 ft / 1.089 mi SW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110069475286
EPA Identifier	110069475286
Primary Name	UCF - JOHN C HITT LIBRARY
Address	UNKNOWN
City	ORLANDO
County	ORANGE COUNTY
State	FL
Zipcode	32816
Programs	NPDES:FLR20AV47
Program Interests	ICIS-NPDES NON-MAJOR, STORM WATER CONSTRUCTION
Updated On	07-OCT-2016 17:13:55
Recorded On	03-SEP-2016 12:24:21

24

Coordinates	28.626193, -81.173518
Distance to site	6125 ft / 1.160 mi NE
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110067187877
EPA Identifier	110067187877
Primary Name	BELLEVUE
Address	UNKNOWN
City	OVIEDO
State	FL
Zipcode	32765
Programs	NPDES:FLR10PT59
Program Interests	ICIS-NPDES NON-MAJOR, STORM WATER CONSTRUCTION
Updated On	07-OCT-2016 16:42:30
Recorded On	12-JAN-2016 12:11:07

25

Coordinates	28.626111, -81.173056
Distance to site	6179 ft / 1.170 mi NE
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110064412167
EPA Identifier	110064412167
Primary Name	BELLEVUE
Address	UNKNOWN
City	OVIEDO
County	SEMINOLE COUNTY
State	FL
Zipcode	32765
Programs	NPDES:FLR10OY44
Program Interests	ICIS-NPDES NON-MAJOR, STORM WATER CONSTRUCTION
Updated On	01-APR-2016 18:46:53
Recorded On	05-JUN-2015 12:51:57

26

Coordinates	28.5988, -81.1969
Distance to site	6408 ft / 1.214 mi SW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110043737793
EPA Identifier	110043737793
Primary Name	UCF COMBINED HEAT & POWER PLANT
Address	UNKNOWN
City	ORLANDO
County	ORANGE
State	FL
Zipcode	32816
Programs	NPDES:FLR10KE87
Program Interests	ICIS-NPDES NON-MAJOR
Updated On	11-JAN-2016 10:12:45
Recorded On	29-AUG-2011 11:13:49

27

Coordinates	28.6, -81.2
Distance to site	6821 ft / 1.292 mi SW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110040767186
EPA Identifier	110040767186
Primary Name	UCF PARKING GARAGE VI
Address	UNKNOWN
City	ORLANDO
County	ORANGE
State	FL
Zipcode	32816
Programs	NPDES:FLR10JG25
Program Interests	ICIS-NPDES NON-MAJOR, STORM WATER CONSTRUCTION
Updated On	05-MAR-2013 10:27:34
Recorded On	28-APR-2010 12:54:04

US Air Facility System (AIRS / AFS)

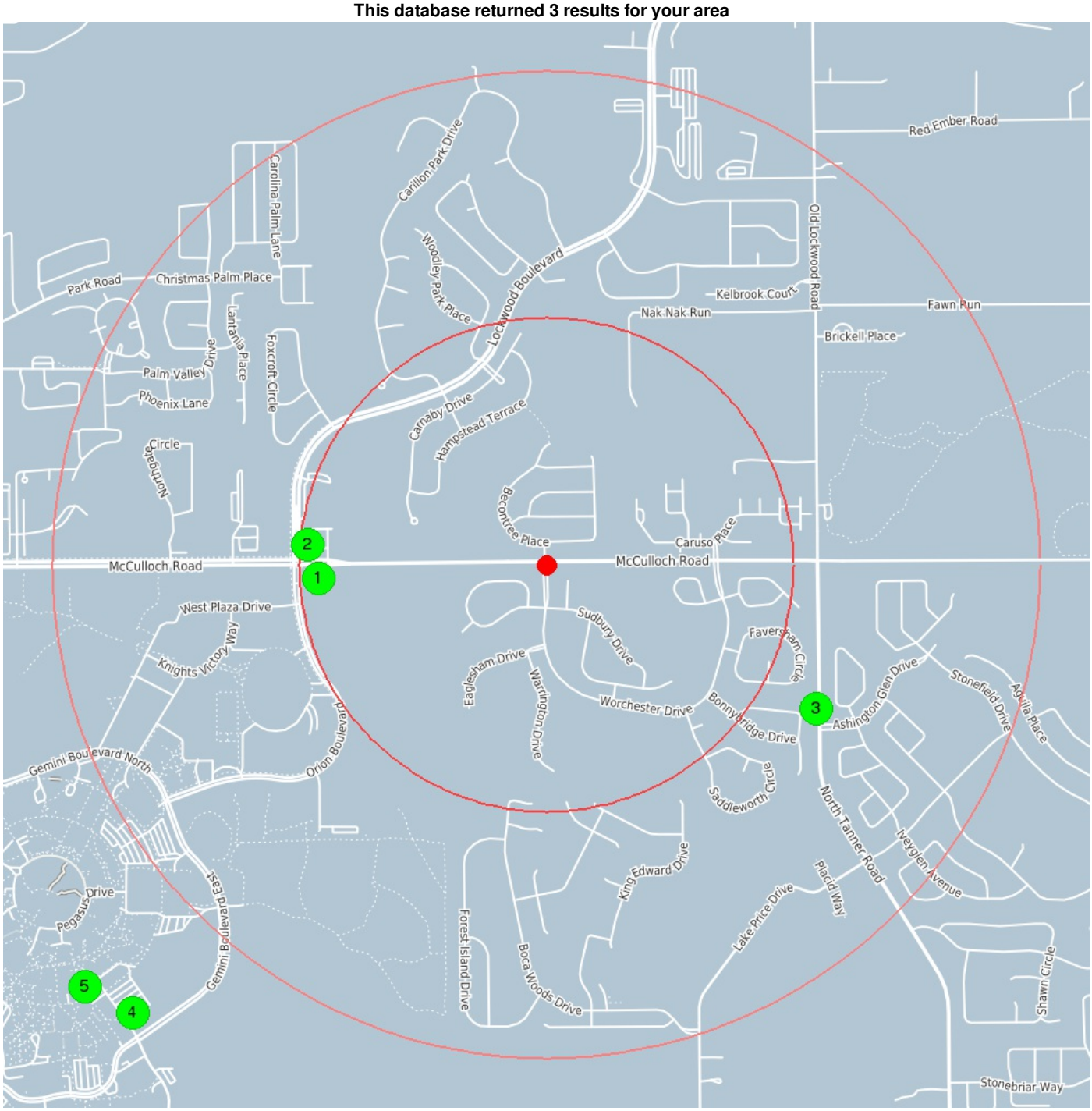
The Air Facility System (AIRS / AFS) contains compliance and permit data for stationary sources of air pollution (such as electric power plants, steel mills, factories, and universities) regulated by EPA, state and local air pollution agencies. The information in AFS is used by the states to prepare State Implementation Plans (SIPs) and to track the compliance status of point sources with various regulatory programs under Clean Air Act.

This database returned no results for your area

FL Storage Tanks

Underground Storage Tanks (UST) containing hazardous or petroleum substances are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The Florida Department of Environmental Protection, Division of Waste Management, Bureau of Petroleum Storage Systems regulates (permitting, compliance, enforcement) the design, construction, operation and maintenance of Petroleum Facilities Storage Tanks.

This database returned 3 results for your area



center 28.611915588379 -81.183586120605 0.5 mile 1.0 mile

FL Storage Tanks

1

Coordinates	28.6115298629029, -81.1911916613313
Distance to site	2439 ft / 0.462 mi W
Facility ID	9802715
Facility Name	ORANGE CNTY FIRE & RESCUE #65
Address	4999 B ORION BLVD
City	ORLANDO
Facility Type	County Government
Facility Status	OPEN

2

Coordinates	28.6124982482976, -81.1915314644352
Distance to site	2553 ft / 0.484 mi W
Facility ID	9805292
Facility Name	CHEVRON PC #114 MCCULLOCH
Address	1640 MCCULLOCH RD
City	OVIEDO
Facility Type	Retail Station
Facility Status	OPEN

3

Coordinates	28.6076916767107, -81.1745833220476
Distance to site	3269 ft / 0.619 mi SE
Facility ID	9700564
Facility Name	ALAFAYA RECYCLING
Address	4951 TANNER RD
City	ORLANDO
Facility Type	Fuel user/Non-retail
Facility Status	CLOSED

4

Coordinates	28.598791025595, -81.1973914490021
Distance to site	6517 ft / 1.234 mi SW
Facility ID	8622599
Facility Name	UNIV OF CENTRAL FL-PHYSICAL PLT BLDG 16
Address	LIBRA DR FACILITIES & SAFETY 16D
City	ORLANDO
Facility Type	State Government
Facility Status	OPEN

5

Coordinates	28.5995583301509, -81.1989833243548
Distance to site	6681 ft / 1.265 mi SW
Facility ID	8733101
Facility Name	UNIV OF CENTRAL FL-MEDICAL CTR
Address	4000 CENTRAL FL BLVD
City	ORLANDO
Facility Type	State Government
Facility Status	CLOSED

FL Leaking Storage Tanks

This database returned no results for your area

FL Brownfield Sites

Brownfields are defined by the Florida Department of Environmental Protection (FDEP) as abandoned, idled, or underused industrial and commercial facilities where expansion or redevelopment is complicated by real or perceived environmental contamination. The primary goals of Florida's Brownfields Redevelopment Act (Ch. 97-277, Laws of Florida, codified at ss. 376.77-.85, F.S.) 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. After a local municipality in Florida designates an area as a brownfield to encourage redevelopment and focus upon revitalization, a resolution is passed and property owners within that designated area optionally may remediate or redevelop their property.
Executed Brownfield Site Rehabilitation Agreements (BSRAs) are voluntary cleanup agreements between a responsible party and FDEP or a delegated local pollution control program. This agreement provides the FDEP and the public assurance that site rehabilitation will be conducted in accordance with the statute and the Brownfields Cleanup Criteria rule (Ch. 62-785), and provides liability protection for the responsible person. The agreement contains various commitments by the responsible person, including milestones for completion of site rehabilitation tasks and submittal of technical reports and plans as agreed to by the responsible person and the DEP. It also contains a commitment by the FDEP to review technical reports according to an agreed upon schedule.
This layer provides a polygon representation of the boundaries of sites within a designated Brownfield Area within Florida where BSRAs have been executed between FDEP and a responsible party.

This database returned no results for your area

EPA Superfund - National Priorities List

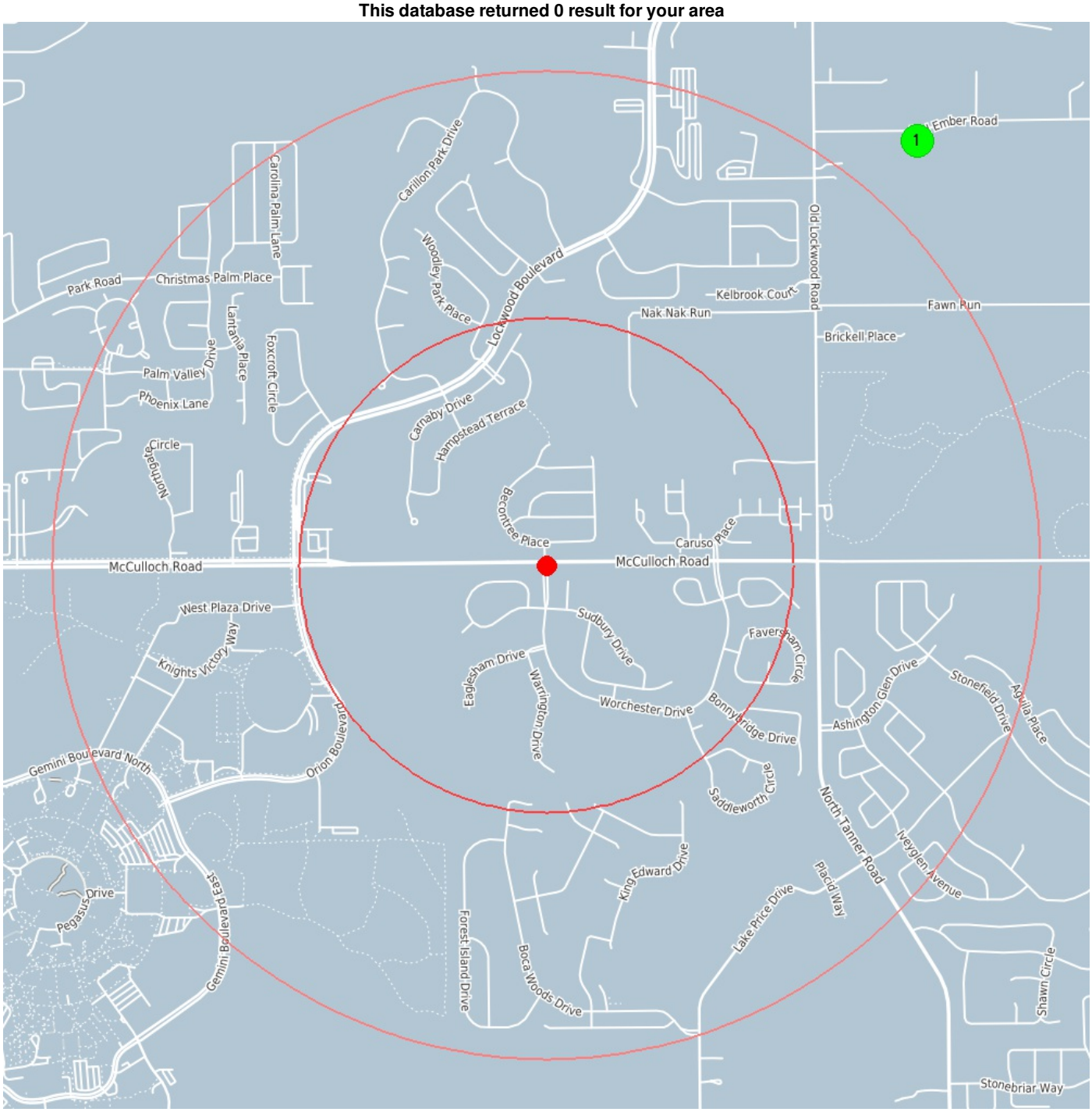
The Florida Department of Environmental Protection created US Environmental Protection Agency National Priorities List (NPL) site polygons. The purpose was to improve the location of sites proposed, listed or delisted from NPL from point data to a polygon. This database does not include sites added to the final NPL in the last two or three years, i.e. Flash Cleaners, Arkla Terra, Raleigh St. Dump, JJ Seifert & Kerr McGee

This database returned no results for your area

FL Solid Waste Facilities

The Florida Department of Environmental Protection (FDEP), Bureau of Solid and Hazardous Waste - Section of Solid Waste compile facility specific information on Solid Waste Management facilities statewide and monitor their potential to impact ground water. The Solid Waste Program regulates (permitting, compliance, enforcement) the design, construction, operation and maintenance of Solid Waste Facilities. It ensures the proper closure and long-term monitoring and maintenance of those facilities which have concluded useful production, or which are otherwise required by rule to be closed. The program also administers financial responsibility requirements designed to guarantee that owners/operators have the financial ability to properly close and manage the Solid Waste Facilities

This database returned 0 result for your area



center 28.611915588379 -81.183586120605 0.5 mile 1.0 mile

FL Solid Waste Facilities

1

Coordinates	28.6243499901724, -81.1712109856445
Distance to site	6023 ft / 1.141 mi NE

Facility ID	92588.000000000
Site Name	CHRISTENSEN SITE
County	SEMINOLE
Facility Status	CLOSED, NO GW MONITORING
Class Status	CLOSED, NO GW MONITORING
Class Description	OLD DUMP
Address	2247 RED EMBER ROAD
City	OVIEDO
State	FL
Zip Code	32765
Section	36.000000000
Township	21S
Range	31E
Class General	GENERAL DISPOSAL

FL Dry Cleaning Program Sites

The Florida Department of Environmental Protection (FDEP) tracks information regarding sites in the state Dry Cleaning cleanup program. These drycleaning sites are eligible for a state funded program (Drycleaning Solvent Cleanup Program) to cleanup properties that are contaminated as a result of the operations of a drycleaning facility or a wholesale supply company (Chapter 376, Florida Statutes). A fund has been established to pay for the costs related to the cleanup of these properties. Drycleaners applied to participate in this program from 1995 (when the law was passed) to December 31, 1998. All sites have confirmed contamination above Contamination Target Levels and have complied with conditions set in the law.

This database returned no results for your area

FL Groundwater Contamination Areas

This GIS layer represents approximately 427,897 acres in 38 counties in Florida that have been delineated for groundwater contamination. Of these areas, the majority are delineated for EDB (EDB is mainly used in anti-knock (leaded) gasoline mixtures, particularly in aviation fuel) with a few additional areas delineated for solvents and gasoline. However, this GIS layer does not represent all known sources of groundwater contamination for the state of Florida.

This database returned no results for your area

FL State Cleanup Sites

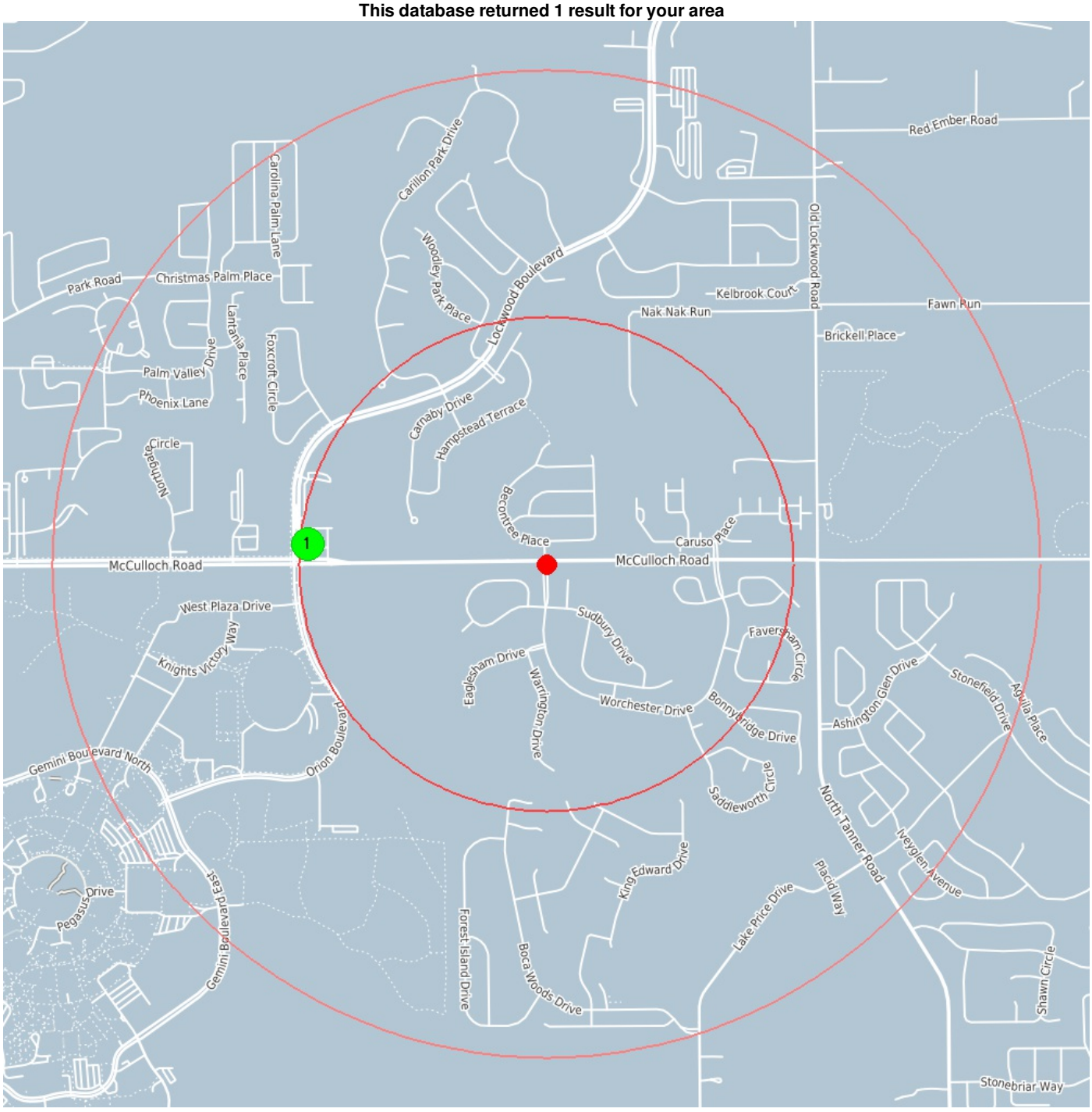
Florida Department of Environmental Protection (FDEP) State-Funded Hazardous Waste Cleanup Site polygons (does not include Drycleaning Solvent Cleanup Program, Department of Defense sites, National Priority List (NPL) sites or PSRP cleanups under District Office supervision)

This database returned no results for your area

FL Fuel Facilities

The Florida Department of Environmental Protection, Division of Waste Management, Bureau of Petroleum Storage Systems regulates (permitting, compliance, enforcement) the design, construction, operation and maintenance of Petroleum Facilities. This layer identifies active fuel facilities and facility characteristics.

This database returned 1 result for your area



center 28.611915588379 -81.183586120605 0.5 mile 1.0 mile

FL Fuel Facilities

1

Coordinates	28.6124982490914, -81.1915314644352
Distance to site	2553 ft / 0.484 mi W

Name	CHEVRON PC #114 MCCULLOCH
Facility ID	9805292
Address	1640 MCCULLOCH RD
City	OVIEDO
Zip Code	32765
County	SEMINOLE
Number of Gas Tanks	2.0000000000
Capacity in Gallons	27000.0000000000
Number of Diesel Tanks	0.0000000000
Capacity in Gallons	0.0000000000
Total Tanks	2.0000000000
Total Capacity in Gallons	27000.0000000000

FL Activity Use Restrictions

Activity and Use Limitations (AULs), also known as Environmental Land-Use Controls (LUCs) â€“ An AUL is a restriction, covenant or notice concerning the use of real property, which is imposed on real property. AULs and LUCs are further categorized as Institutional Controls (ICs) and Engineering Controls (ECs). An IC is a legal or regulatory restriction on the use of a property, limiting the use of groundwater and excavations or preventing such businesses as day care centers or schools on the property. An EC involves physical means of restricting site access or use in order to prevent the spreading or exposure of a contaminant. Frequently implemented engineering controls include requiring black top on the surface, building of structures to prevent exposure or even notices to the public that are posted on the grounds warning of contaminants.

This database returned no results for your area