FLORIDA DEPARTMENT OF TRANSPORTATION

SR 869 (SAWGRASS EXPRESSWAY) WIDENING
PROJECT DEVELOPMENT & ENVIRONMENT (PD&E) STUDY

From West of US 441 (SR 7) to Powerline Road (SR 845)

FPID No.: 437153-1-22-01 • ETDM No.: 14280 • Broward County

CONTAMINATION SCREENING EVALUATION REPORT

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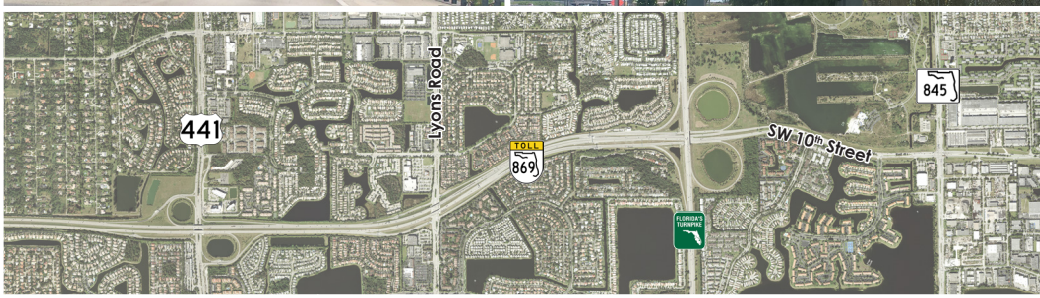
FEBRUARY 2024

















CONTAMINATION SCREENING EVALUATION REPORT

Florida Department of Transportation
Florida's Turnpike Enterprise

Sawgrass Expressway/Sawgrass Expressway
Project Development and Environment (PD&E) Study
Broward County, Florida

Financial Project ID Number: 437153-1-22-01
ETDM Number: 14280

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JANUARY 2024

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EXECUTIVE SUMMARY

The Florida Department of Transportation (FDOT), Florida's Turnpike Enterprise (FTE), is performing a Project Development and Environment (PD&E) Study for State Road 869 (Sawgrass Expressway)/Sawgrass Expressway from west of US 441/SR 7 to Powerline Road (SR 845), a distance of approximately 4 miles. The objective of this PD&E Study is to evaluate corridor modifications to improve operations and interchange access. The proposed improvements will address existing and future traffic needs, improve travel time reliability, enhance safety, and provide long-term mobility options along the corridor. The study is evaluating additional lanes, new collector distributor roadway systems and interchange improvements. This Contamination Screening Evaluation Report was prepared in accordance with FDOT PD&E Manual Chapter 20, effective 1/14/2019. It identifies sites of potential contamination risk to the project and provides information on site histories as well as risk ratings and guidance for additional investigations.

A total of 19 sites of potential contamination risk were identified, including zero High Risk, 7 Medium Risk, and 12 Low Risk sites. None of these potentially contaminated sites are proposed for ROW acquisition. Level II Contamination Assessment investigations will be recommended during the design phase based on activities anticipated to construct the project, such as dewatering or subsurface work (e.g., pole foundations, drainage features, soil excavation, etc.) in proximity to any sites rated High or Medium Risk. A dewatering plan will be necessary to avoid potential exacerbation of any contamination plumes.

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1.0 PROJECT OVERVIEW

1.1 PROJECT DESCRIPTION AND LOCATION

The Florida Department of Transportation (FDOT), Florida's Turnpike Enterprise (FTE), is performing a Project Development and Environment (PD&E) Study for State Road 869 (Sawgrass Expressway)/Sawgrass Expressway from west of US 441/SR 7 to Powerline Road (SR 845)(Mile posts 18–22), a distance of approximately 4 miles (see ***Figure 1.1***). The objective of this PD&E Study is to evaluate corridor modifications to improve operations and interchange access. The proposed improvements will address existing and future traffic needs, improve travel time reliability, enhance safety, and provide long-term mobility options along the corridor. The study is evaluating additional lanes, new collector distributor roadway systems and interchange improvements. This Natural Resources Evaluation describes existing environmental conditions and potential impacts to protected species and wildlife habitats, wetlands, and Essential Fish Habitat (EFH) from the proposed project.

The study also includes 2.7 miles of the Florida's Turnpike (SR 91) from Wiles Road to the Broward/Palm Beach County Line (Mile posts 23.2-25.9). The study area is located in Broward County and traverses the cities of Parkland, Coral Springs, Coconut Creek, and Deerfield Beach, as well as an area of unincorporated Broward County.

The Sawgrass Expressway is a tolled 21-mile limited access facility located in northern Broward County. Between west of US 441 and the Florida's Turnpike, the corridor consists primarily of six travel lanes (three in each direction). This segment of the corridor is functionally classified as a Divided Urban Principal Arterial Expressway and has a posted speed limit of 65 miles per hour. Between the Florida's Turnpike and Powerline Road the corridor changes to SW 10th Street with primarily six non-tolled travel lanes (three in each direction) and a functional classification of Urban Principal Arterial Other. The posted speed of this section is 45 miles per hour. The access management classification of the corridor is Class 1.

The Florida's Turnpike is also a tolled limited access facility that runs north-south from Interstate 95 to Interstate 75. Between Wiles Road and the County Line, the corridor consists primarily of six travel lanes (three in each direction). This

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segment of the corridor is functionally classified as a Divided Urban Principal Arterial Expressway and has a posted speed limit of 65 miles per hour. The access management classification of the corridor is Class 1.

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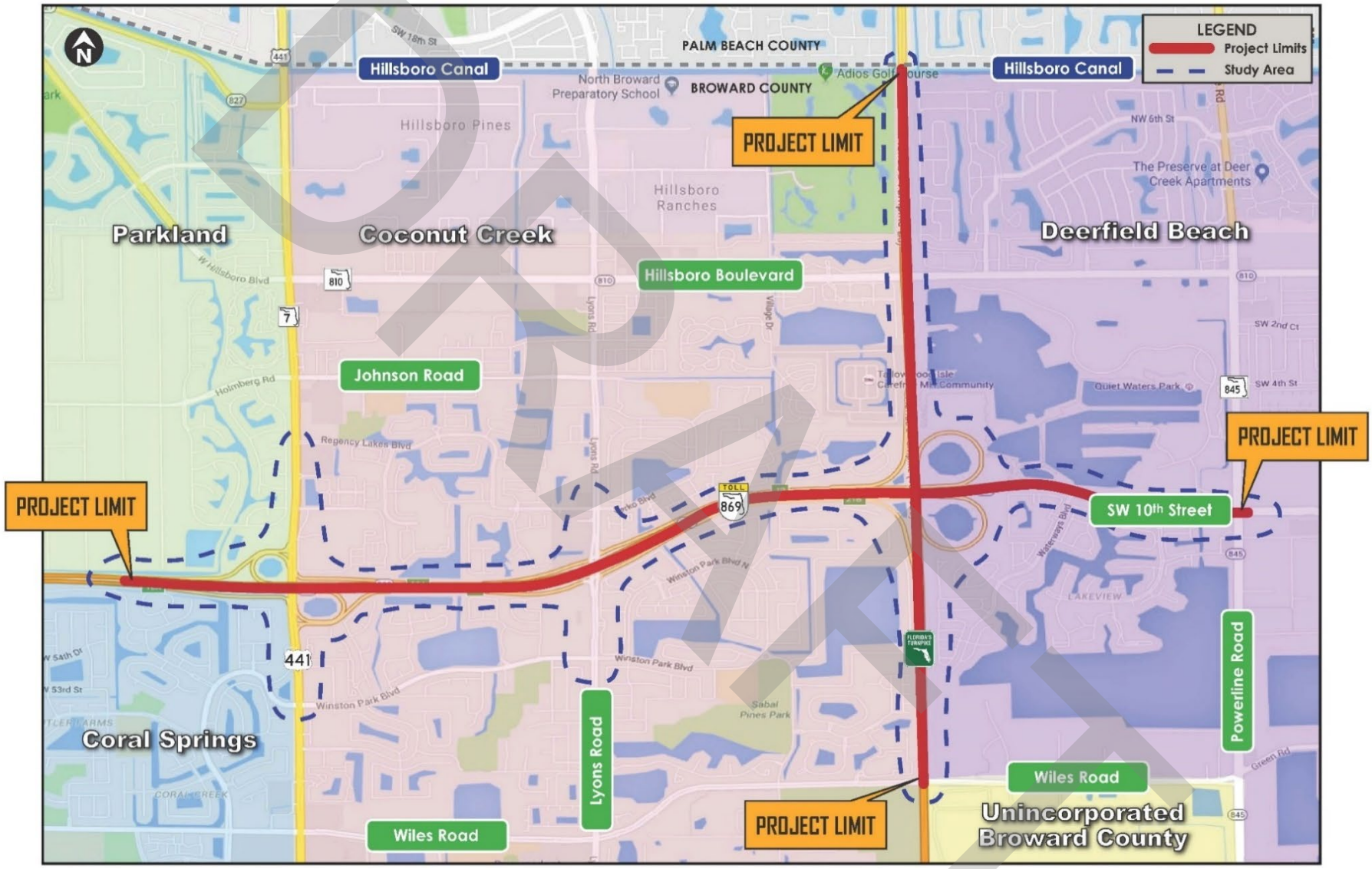

Figure 1.1 – Project Location Map

1.2 Purpose and Need of the Project

The primary purpose of this project is to add lanes to meet future transportation demand, improve travel time reliability and provide long-term mobility options. The project also includes operational and safety enhancements to the US 441, Lyons Road, and Florida's Turnpike interchanges.

The need for the project is based on the following factors:

Capacity – A *Systems Interchange Modification Report* dated January 2024 was prepared by FTE for this PD&E Study. The existing 2016 and future 2045 Annual Average Daily Traffic (AADT) volumes are listed in ***Table 1.1*** and ***Table 1.2***.

In 2016, the Sawgrass Expressway carried an AADT volume of 86,200 vehicles west of US 441 and 81,700 vehicles between US 441 and Lyons Road. The segment between Lyons Road and Florida's Turnpike carried 81,700 vehicles and the segment east of Florida's Turnpike up to Powerline Road carried 37,700 vehicles.

The 2045 AADT forecast estimate is 131,100 vehicles west of US 441 and 128,900 vehicles between US 441 and Lyons Road. The segment between Lyons Road and Florida's Turnpike is estimated to carry 138,900 vehicles and the segment east of Florida's Turnpike up to Powerline Road is estimated at 71,900 vehicles. The 2045 AADT volumes represent a 52-91% increase in traffic from the year 2016 to 2045.

Table 1.1 – Sawgrass Expressway Annual Average Daily Traffic (AADT) Volumes

Roadway	Segment	2016 AADT	2045 AADT	% Increase
Sawgrass Expressway	West of US 441	86,200	131,100	52%
	US 441 and Lyons Road	81,700	128,900	58%
	Lyons Road and Florida's Turnpike	81,700	138,900	70%
SW 10th Street	Florida's Turnpike and Powerline Road	37,700	71,900	91%

Source: Systems Interchange Modification Report – January 2024

According to the *Systems Interchange Modification Report*, additional lanes are needed along the Sawgrass Expressway corridor by the year 2025. West of US 441, one additional lane is needed by the year 2025 and two additional lanes are needed by the year 2033. Between US 441 and Lyons Road, one additional

lane is needed by the year 2025 and two lanes by 2028. Between Lyons Road and Florida's Turnpike, one additional lane is needed by the year 2025 and two additional lanes are needed by the year 2028. Between Florida's Turnpike and Powerline Road, one additional lane is needed by the year 2025.

Table 1.2 – Florida's Turnpike Annual Average Daily Traffic (AADT) Volume

Roadway	Segment	2016 AADT	2045 AADT	% Increase
Florida's Turnpike	Glades Road and Sawgrass Expressway	106,800	153,100	43%
	Sawgrass Expressway and Sample Road	90,800	130,300	44%

Source: Systems Interchange Modification Report – January 2024

According to the *Systems Interchange Modification Report*, additional lanes are needed along the Florida's Turnpike corridor by the year 2025. South of the Sawgrass Expressway, one additional lane is needed by the year 2026, and north of the Sawgrass Expressway, one additional lane is needed by the year 2025 and two additional lanes by 2045.

Several interchanges and adjacent intersections are operating at an unacceptable level of service. If additional lanes are not added to the corridor, the congestion within the project limits will get considerably worse with longer peak periods, more crashes and deteriorating travel time reliability.

Travel Time Reliability – In urban areas, many motorists have accepted traffic congestion as an unpleasant fact and have adjusted their schedules or allowed extra time for work, school, and other time-sensitive trips. However, they are less tolerant of unexpected delays that cause them to be late for work or important meetings, miss appointments, or lose money due to disruption of shipping and just-in-time deliveries.

Travel time reliability measures the extent of this unexpected delay. Travel time reliability is defined as the consistency or dependability in travel times, as measured from day-to-day and/or across different times of the day.

To gauge travel reliability on the Sawgrass Expressway, the average travel speeds between US 441 and Florida's Turnpike were obtained for a 7-day period (March 14, 2016 through March 20, 2016) and plotted. The results are shown in ***Figure 1.2***. As shown on the figure, the average travel speeds in the

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northbound/eastbound direction are dropping below 50 miles per hour during the morning peak with 95th percentile dropping to below 20 miles per hour.

Traffic volumes along the Sawgrass Expressway are expected to increase by 52% to 91% in the next 25 years. Without any improvements, the increasing traffic congestion will further deteriorate travel reliability along the corridor. Residents and workers will avoid destinations along the Sawgrass Expressway negatively affecting the economic vitality of the area.

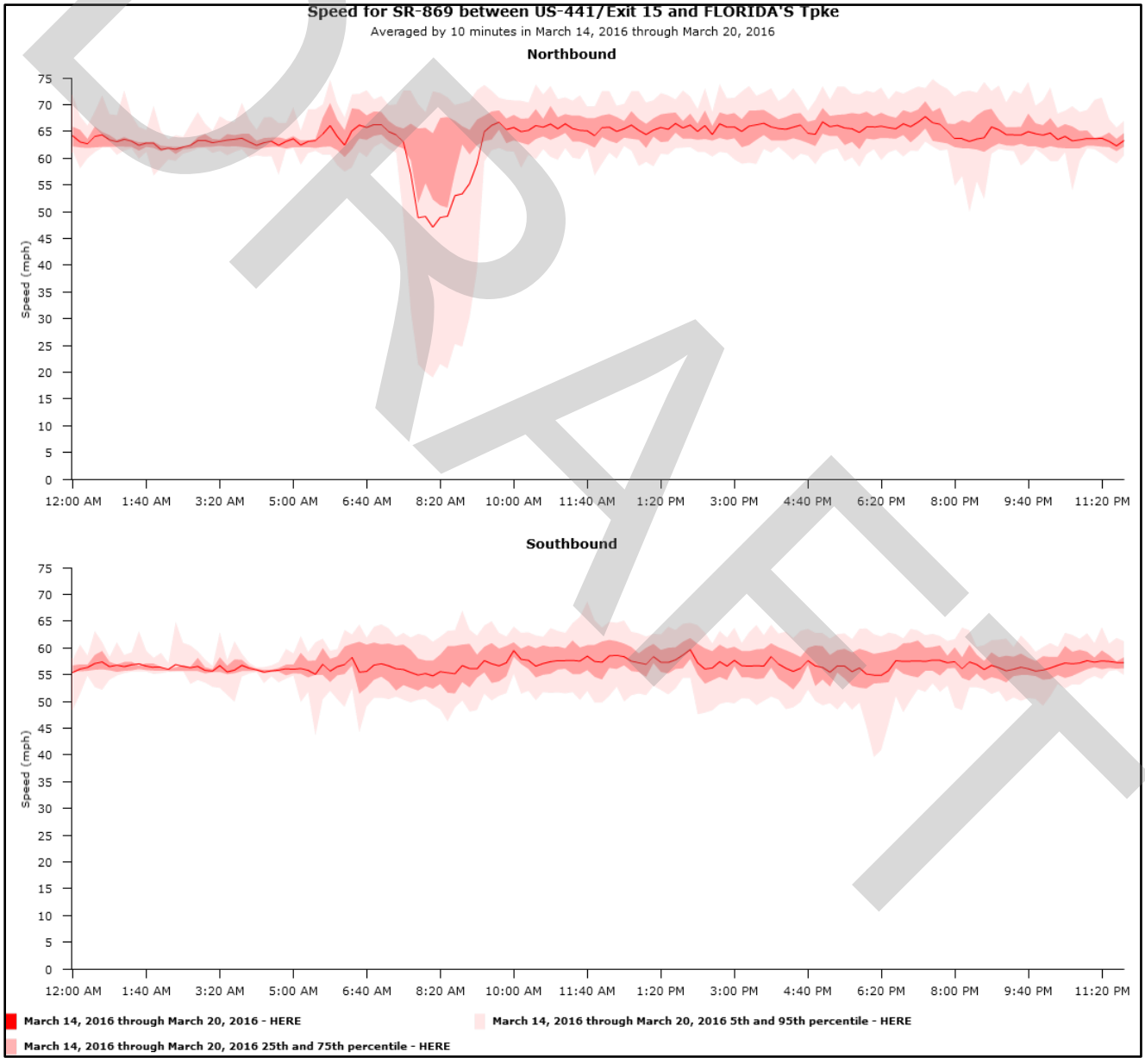

Figure 1.2 – Sawgrass Expressway Travel Time Reliability

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System Linkage – Continuity in the transportation system is essential for efficient vehicle movements, travel patterns and safety. The Sawgrass Expressway is part of the State's Strategic Intermodal System (SIS) and the National Highway System (NHS) providing connectivity to Interstate 595, Interstate 75, Florida's Turnpike, and Interstate 95. The corridor also connects the local multi-modal transportation network by providing access to the Sunrise Park and Ride at the Amerant Bank Arena (formerly known as BB&T Center) and linking the existing Express Bus service along I-595 to Downtown Fort Lauderdale and Downtown Miami.

Additional lanes are proposed on the Sawgrass Expressway from south of Sunrise Boulevard to west of US 441 and on Florida's Turnpike both north and south of the Sawgrass Expressway. The segment corridor from US 441 to Florida's Turnpike is the last segment missing the needed additional lanes to continue to provide a reliable system linkage with the Florida's Turnpike and to the east.

Modal Interrelationships – The Sawgrass Expressway is part of the SIS and NHS networks. Additional lanes along the corridor will enhance the mobility of goods by alleviating current and future congestion along the corridor and surrounding freight and transit networks.

Transportation Demand – The continued growth within Broward County, particularly by the number of Developments of Regional Impact that have been approved in western Broward County, will drive the need for further infrastructure improvements including the widening of the Sawgrass Expressway. The existing 2016 AADT volumes measured along the corridor range from 37,700 between Florida's Turnpike and Powerline Road to as high as 86,200 west of US 441. The 2045 AADT forecasts show this traffic will grow to 71,900 between Florida's Turnpike and Powerline Road and to as high as 131,100 between US 441 and Lyons Road. This increase in demand reflects a 52% to 91% increase in future traffic necessitating capacity and operational improvement strategies to address this need.

Social Demands and Economic Development – The Sawgrass Expressway connects the cities of Coral Springs, City of Parkland, Coconut Creek, and Deerfield Beach to the Florida's Turnpike. Travel demand on the Sawgrass Expressway is directly related to population and employment changes within

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Broward County and the cities within the corridor. The projected population of Broward County and cities adjacent to the Sawgrass Expressway is shown in ***Table 1.3***.

Table 1.3 – 2020 and 2045 Population

Year	Broward County	City of Coral Springs	City of Parkland	City of Coconut Creek	Deerfield Beach
2020[1]	1,944,375	134,394	34,670	57,833	86,859
2045[2]	2,237,840	142,885	32,848	64,885	93,188
2020-2045 Change	15%	6%	-5%	12%	7%

Source: [1] – United States Census 2020, [2] – Broward MPO 2045 Long Range Transportation Plan & Broward County and Municipal Population Forecast and Allocation Model 2017

The population of Broward County is expected to increase by 15% from 2020 to 2045 while the cities directly adjacent to the Sawgrass Expressway are projected to grow between 6% and 12%, except for the City of Parkland. This projected increase in population will result in increased traffic on Sawgrass Expressway and adjacent roadway network.

Emergency Evacuation – Sawgrass Expressway serves as part of the emergency evacuation route network designated by the Florida Division of Emergency Management and by Broward County. This corridor is critical in facilitating traffic movement during emergency evacuation periods as it connects to other major arterials and highways of the state evacuation route network (i.e., I-595, I-75, Florida's Turnpike and to I-95 via the arterial portion of Sawgrass Expressway known as SW 10th Street to the east). Increasing the capacity of the Sawgrass Expressway will reduce evacuation times needed for residents of Broward County during emergency and hurricane evacuations.

Long Term Mobility Option – Sawgrass Expressway, within the project limits, is currently operating at LOS D or better with several intersections operating at LOS F. The 2045 traffic forecasts, based on population and employment projections, show an increase of 43% to 91% in future traffic volumes. A long-term mobility option is needed that will not only serve current traffic volumes but will accommodate future projected growth. Without this option, the residents and workers in the surrounding area will face severe congestion leading to decreasing productivity that would affect the economic viability of cities surrounding the Sawgrass Expressway.

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2.0 EXISTING CONDITIONS

The methodology utilized for evaluating the existing conditions within the study area consisted of data gathering in the areas of roadway, bridge, and engineering characteristics. The existing conditions assessment began with the collection and review of all data pertaining to the existing facilities through reviewing existing documents, conducting on-site inventories, and collecting pertinent data that would serve as a basis for evaluation. The assessment was performed for the following three facilities:

1. Sawgrass Expressway between west of US 441 and Florida's Turnpike (Limited Access Segment)
2. SW 10th Street between Florida's Turnpike and Powerline Road (Arterial Segment)
3. Florida's Turnpike between Wiles Road and the Broward/Palm Beach County Line (Limited Access)

2.1 ROADWAY

Sawgrass Expressway – Sawgrass Expressway, between west of US 441 and Florida's Turnpike, consists of four to six 12-foot wide travel lanes (two to three lanes in each direction) with 12-foot wide auxiliary lanes at select locations and 12-foot wide inside and outside shoulders. The median width varies within this segment of the corridor. The section between west of US 441 and east of Lyons Road has a 64-foot wide depressed grassed median separated by guardrail (see ***Figure 2.1*** and ***Figure 2.2***). The section between east of Lyons Road and Florida's Turnpike narrows down to a 2-foot wide median barrier wall (see ***Figure 2.3***). This section also has a two-lane collector-distributor roadway system with 12-foot wide travel lanes and 12-foot wide auxiliary lanes on both sides of the corridor providing ramp access to and from the Florida's Turnpike. Inside and outside shoulder widths vary depending on the number of lanes, tolling point locations and ramp gores.

SW 10th Street – SW 10th Street, between Florida's Turnpike and Powerline Road, consists of six 12-foot wide travel lanes (three lanes in each direction) and a raised grassed curbed median. The median width varies between 30-65 feet wide. The median currently accommodates landscape vegetation and exclusive left-turn lanes at the intersections (see ***Figure 2.4***).

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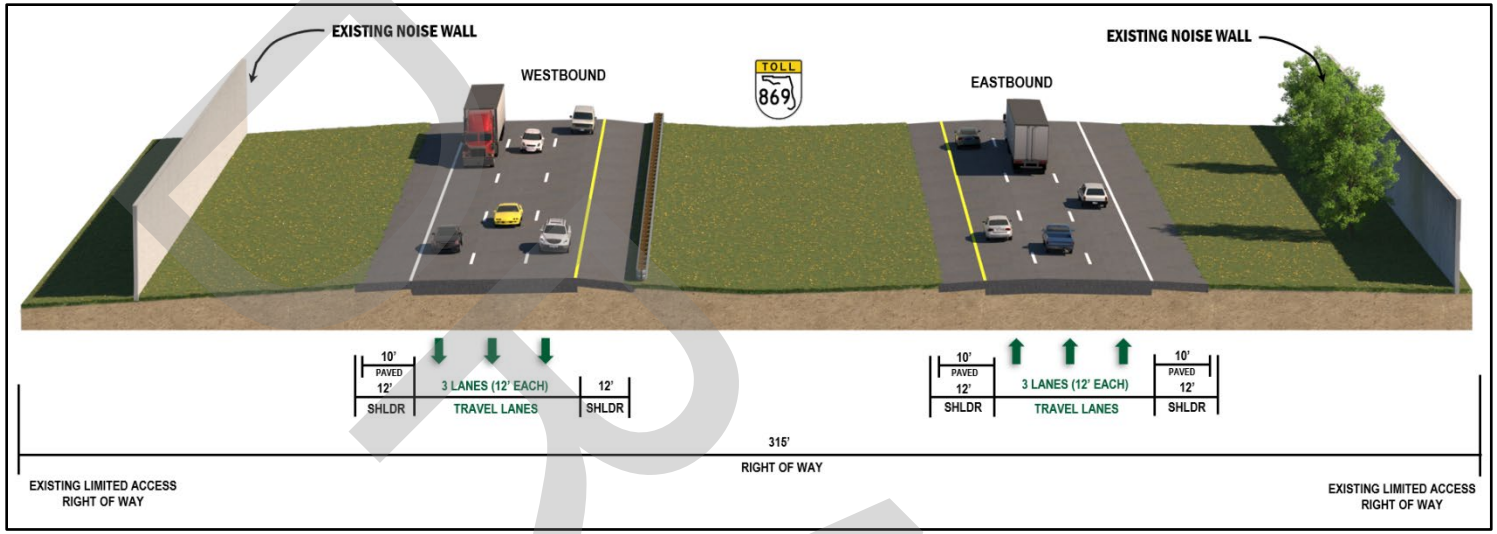

Figure 2.1 – Existing Roadway Section West of US 441

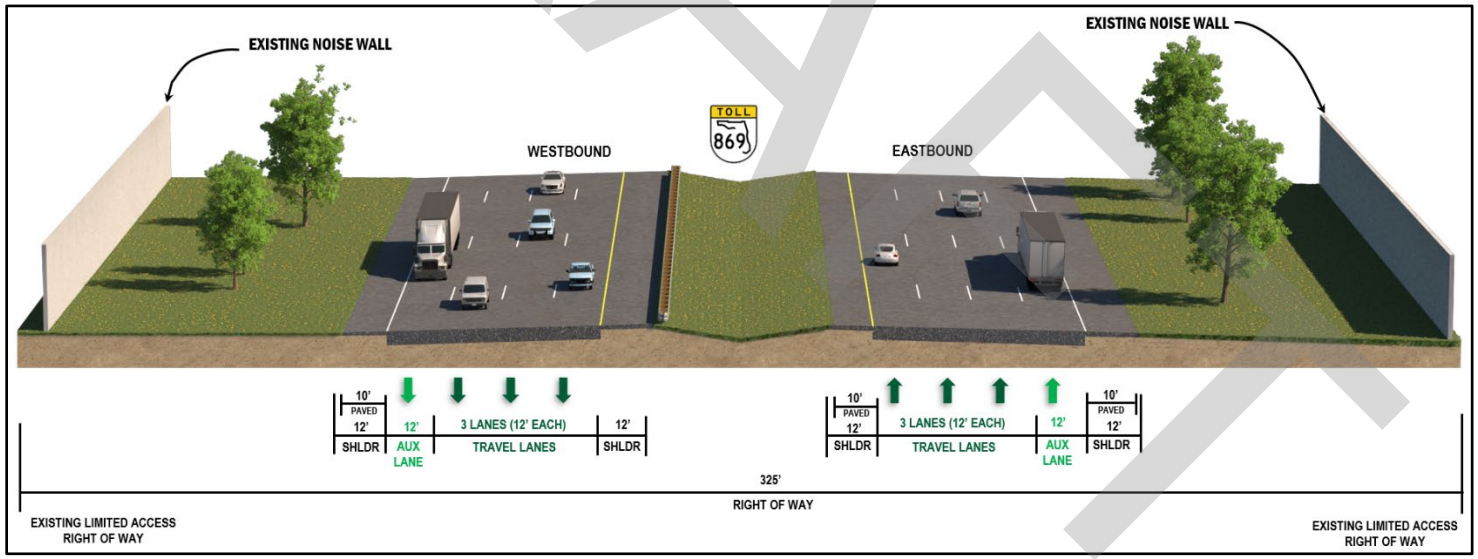

Figure 2.2 – Existing Roadway Section between US 441 and Lyons Road

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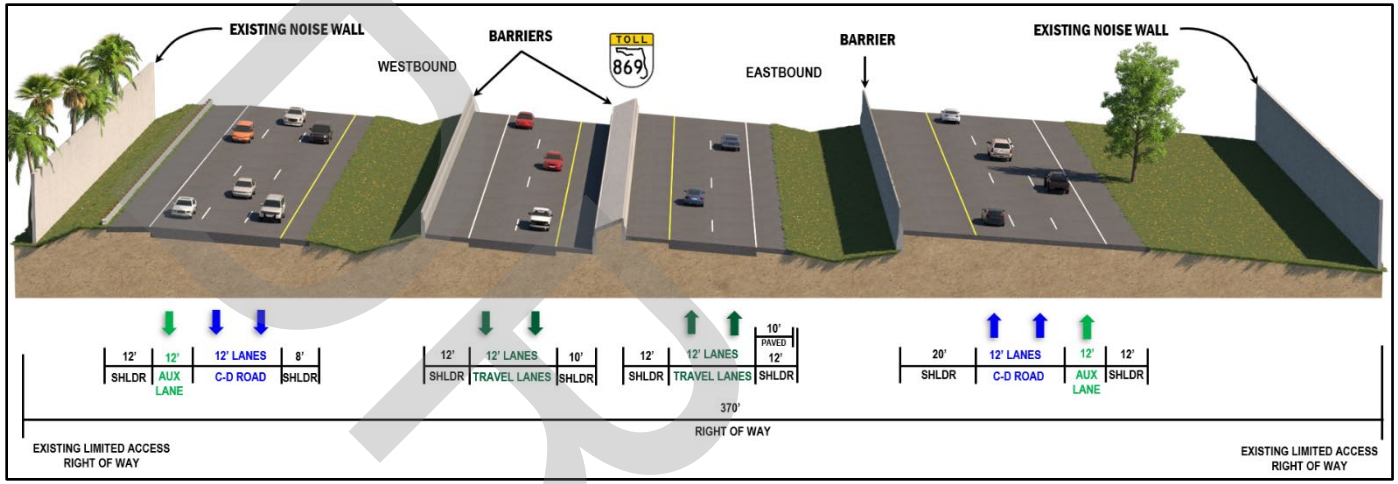

Figure 2.3 – Existing Roadway Section between Lyons Road and Florida's Turnpike

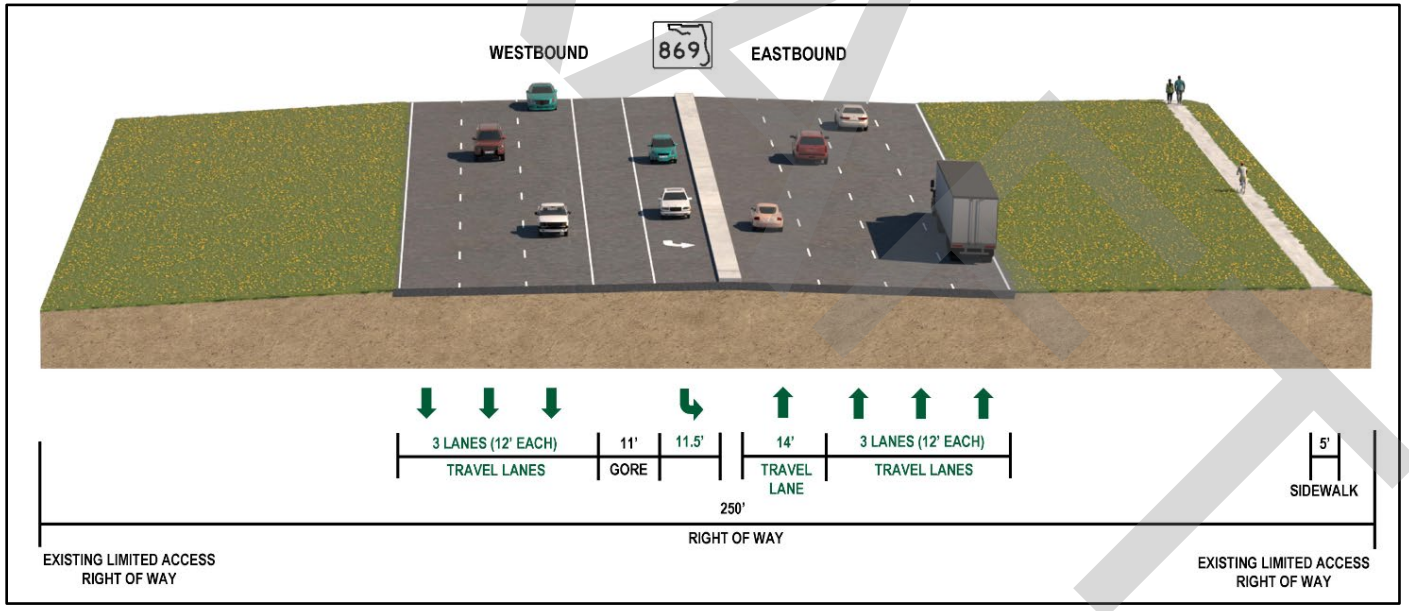

Figure 2.4 – Existing Roadway Section between Florida's Turnpike and Powerline Road

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Florida's Turnpike – Florida's Turnpike, between Wiles Road and the County Line, consists of six 12-foot wide travel lanes (three lanes in each direction) with 8.5-10-foot wide inside shoulders, 12-foot wide outside shoulders and a 2-foot wide median barrier wall (see ***Figure 2.5*** and ***Figure 2.6***).

There are three roadway improvement projects committed within the study area.

1. FDOT District Four FPID# 439891-1 – This project is adding two limited access connector lanes in each direction and other corridor improvements along SW 10th Street between Florida's Turnpike and I-95.
2. FTE FPID# 446024-2 – This project is extending the southbound on-ramp acceleration lane from Sawgrass Expressway eastbound by 1,436 feet.
3. FTE FPID# 415927-4 – This project is adding one more travel lane in each direction along Florida's Turnpike between Sawgrass Expressway and north of Glades Road.

These improvement projects are expected to be opened to traffic before the implementation of this project.

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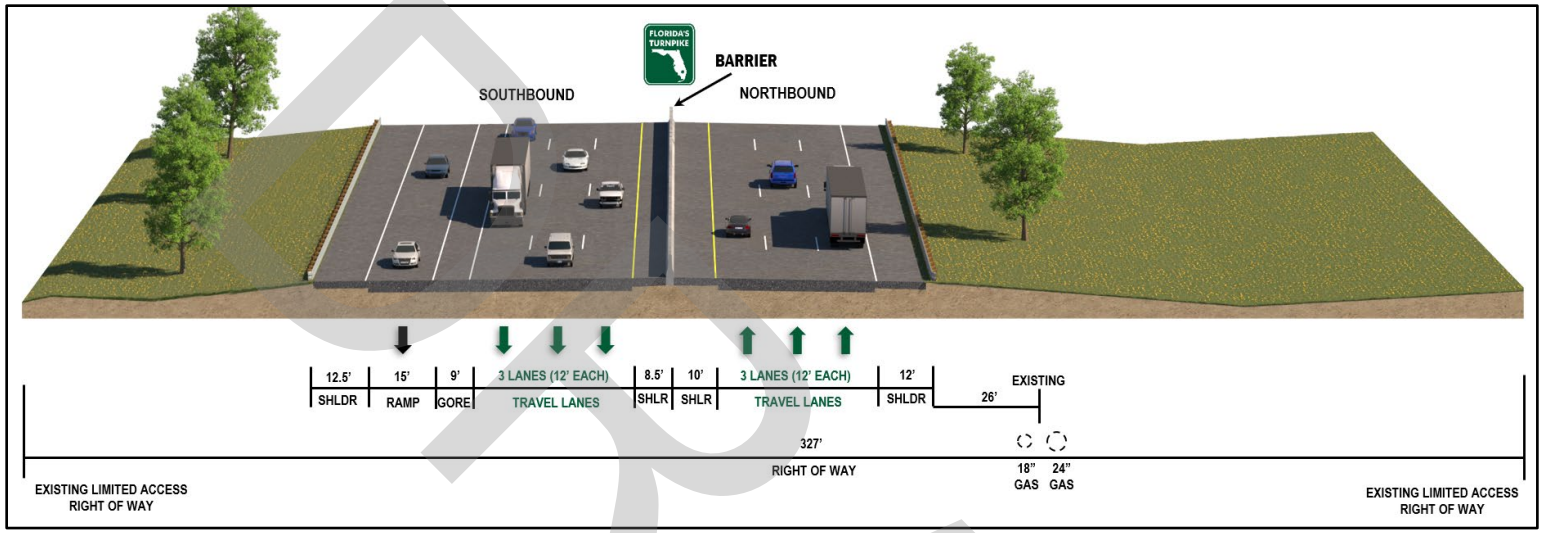

Figure 2.5 – Existing Roadway Section between Wiles Road and Sawgrass Expressway

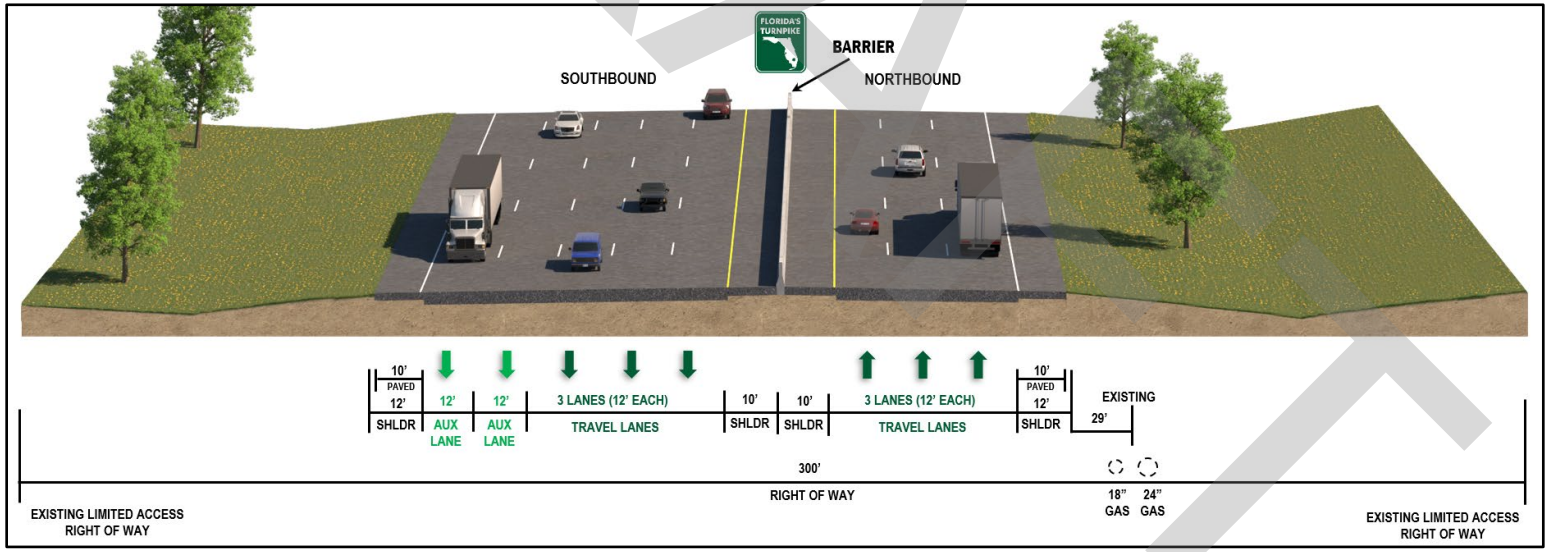

Figure 2.6 – Existing Roadway Section between Sawgrass Expressway and the County Line

2.2 RIGHT OF WAY

The Sawgrass Expressway existing right of way varies within the study limits due to the number of closely spaced interchanges, where it varies to accommodate entrance and exit ramps.

The Florida's Turnpike existing right of way also varies within the study limits. The right of way is generally consistent throughout the corridor except when approaching the Sawgrass Expressway Interchange, where it varies to accommodate entrance and exit ramps. ***Table 2.1*** summarizes the right of way along both corridors.

Table 2.1 – Summary of Existing Right of Way

Roadway	Roadway Section	Type of Right Away	Right of Way Width (feet)
Sawgrass Expressway	University Drive – US 441	Limited Access	315
	US 441 – Lyons Road	Limited Access	325
	Lyons Road – Florida's Turnpike	Limited Access	370
SW 10th Street	Florida's Turnpike – Powerline Road	Controlled Access	250
Florida's Turnpike	Wiles Road – Sawgrass Expressway	Limited Access	327
	Sawgrass Expressway – Broward/Palm Beach County Line	Limited Access	300

Source: FDOT Right of Way Survey

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3.0 PROJECT ALTERNATIVES

The objective of this PD&E Study is to evaluate corridor modifications to improve operations and interchange access. To keep up with the growing traffic demand within the study area, multiple conceptual alternatives were considered during the initial phase of the study, including a No-Build Alternative. The No-Build Alternative maintains the existing roadway configuration and any other planned improvements along the corridor.

All conceptual alternatives were screened based on travel demand, capacity, tolling, signing, access, geometrics, and right of way availability in order to select a preferred alternative. The alternatives analysis process consisted of six steps throughout the study (see ***Figure 3.1***).

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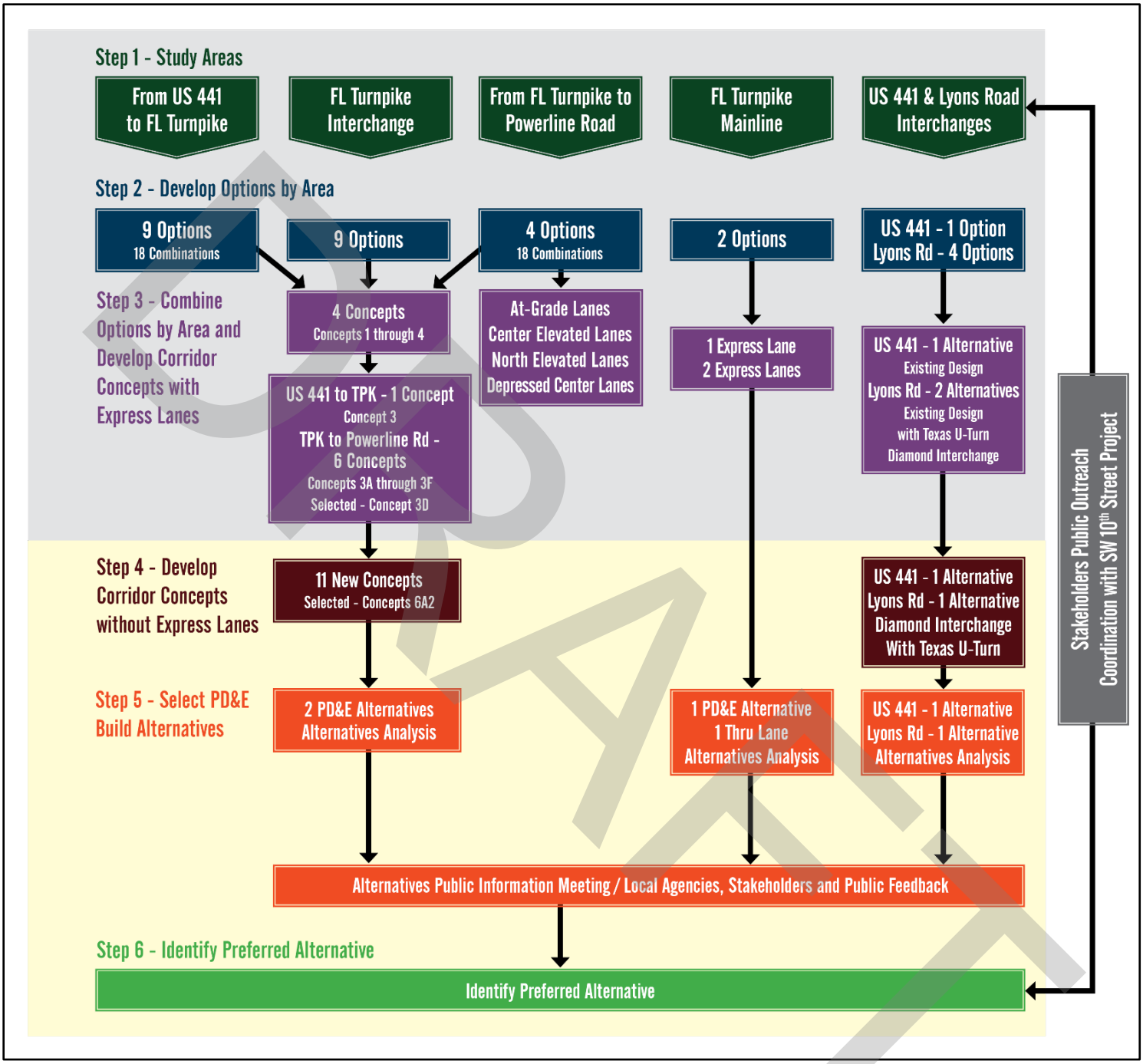

Figure 3.1 – Alternatives Analysis Process

The first step of the process was to divide the study area based on roadway characteristics. Once divided, the second step was to develop options with improvements that will meet the needs of the divided areas. The improvements varied by area including, but not limited to, adding express lanes, combining off-ramp exits, adding lanes to the on- and off-ramps, new interchange ramp connections, interchange modifications, and extending the existing collector distributor roadway systems. During the third step, selected improvement options were combined by area and developed corridor concepts that covered the entire study area. These corridor improvements included the implementation of express lanes along both the Sawgrass Expressway and Florida's Turnpike.

In 2020, FTE no longer considered adding express lanes to both Sawgrass Expressway and Florida's Turnpike. Policy changes at the time allowed for FDOT and FTE to look at other freeway widening alternatives. Therefore, during step four, a series of new corridor concepts were developed with additional travel lanes, interchange modifications and other corridor improvements. During this step a corridor concept was selected to be evaluated further during the alternatives analysis. During step five, from the corridor concept selected, two PD&E build alternatives were developed, analyzed, and presented to the local agencies, stakeholders, and public during an Alternatives Public Information Meeting. During step six, FTE addressed all the comments from the public meeting and identified a preferred alternative.

3.1 Preferred Alternative

Sawgrass Expressway – The preferred alternative proposes to widen the Sawgrass Expressway to four travel lanes in each direction with auxiliary lanes at select locations. The preferred alternative also includes collector distributor roadway systems on both sides of the corridor. The collector distributor roadway systems will separate local traffic and interchange traffic from the mainline traffic. Separating traffic patterns reduces lane changes, weaving maneuvers, speed differentials and friction along the corridor. The collector distributor roadway systems will be barrier separated from the Sawgrass Expressway mainline lanes.

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Sawgrass Expressway, west of US 441, will consist of 12-foot wide travel lanes and auxiliary lanes with 15-foot wide inside shoulders, 12-foot wide outside shoulders and a 2-foot wide median barrier wall (see ***Figure 3.2***). This section is consistent with the proposed Sawgrass Expressway widening project to the west between Atlantic Boulevard and west of US 441 (FPID# 435461-1). Between US 441 and Lyons Road, the roadway section will consist of 12-foot wide travel lanes and auxiliary lanes with 15-foot wide inside shoulders, 12-foot wide outside shoulders and a 2-foot wide median barrier wall. The collector distributor roadway systems begin at US 441 and end at the Florida's Turnpike. Between US 441 and Lyons Road, the collector distributor roadway system will consist of two 12-foot wide travel lanes with varying inside and outside shoulders widths between 8-12 feet wide separated from the mainlines lanes with a 2-foot wide barrier wall (see ***Figure 3.3***).

Between Lyons Road and Florida's Turnpike, the roadway section will consist of 12-foot wide travel lanes and auxiliary lanes with varying inside and outside shoulders widths between 12-14 feet wide and a 2-foot wide median barrier wall. The collector distributor roadway system will consist of two 12-foot wide travel lanes and one auxiliary lane with varying inside and outside shoulders widths between 8-12 feet wide separated from the mainlines lanes with a 2-foot wide barrier wall (see ***Figure 3.4***).

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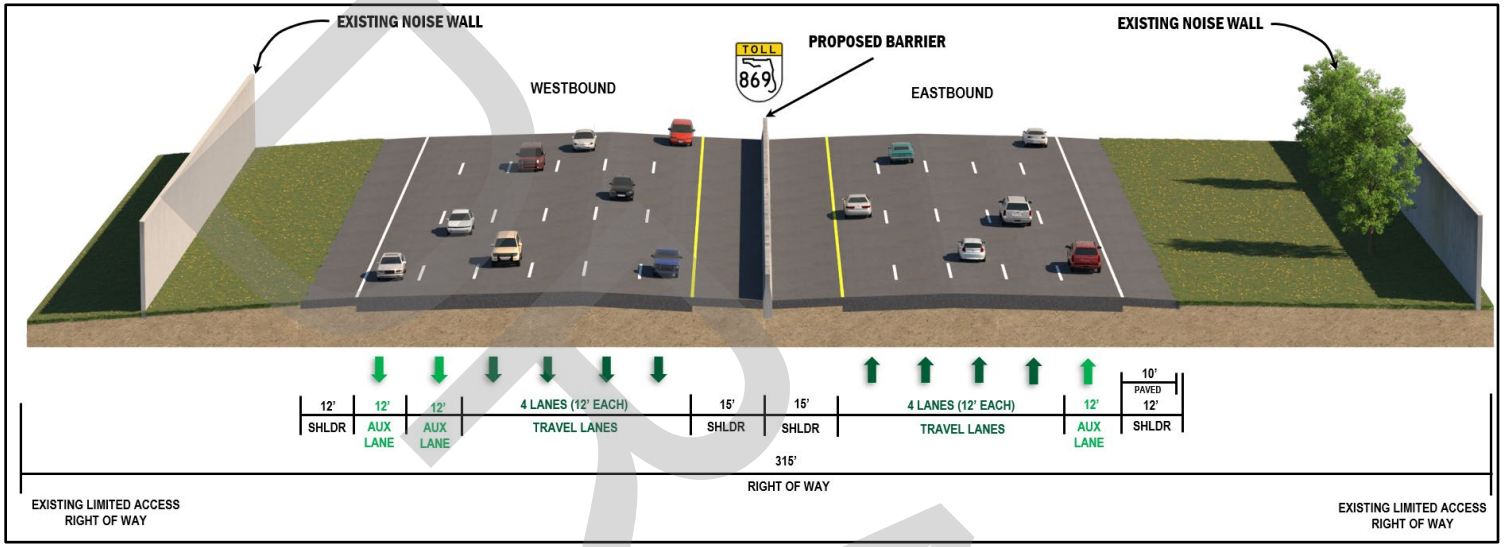

Figure 3.2 – Preferred Alternative Roadway Section West of US 441

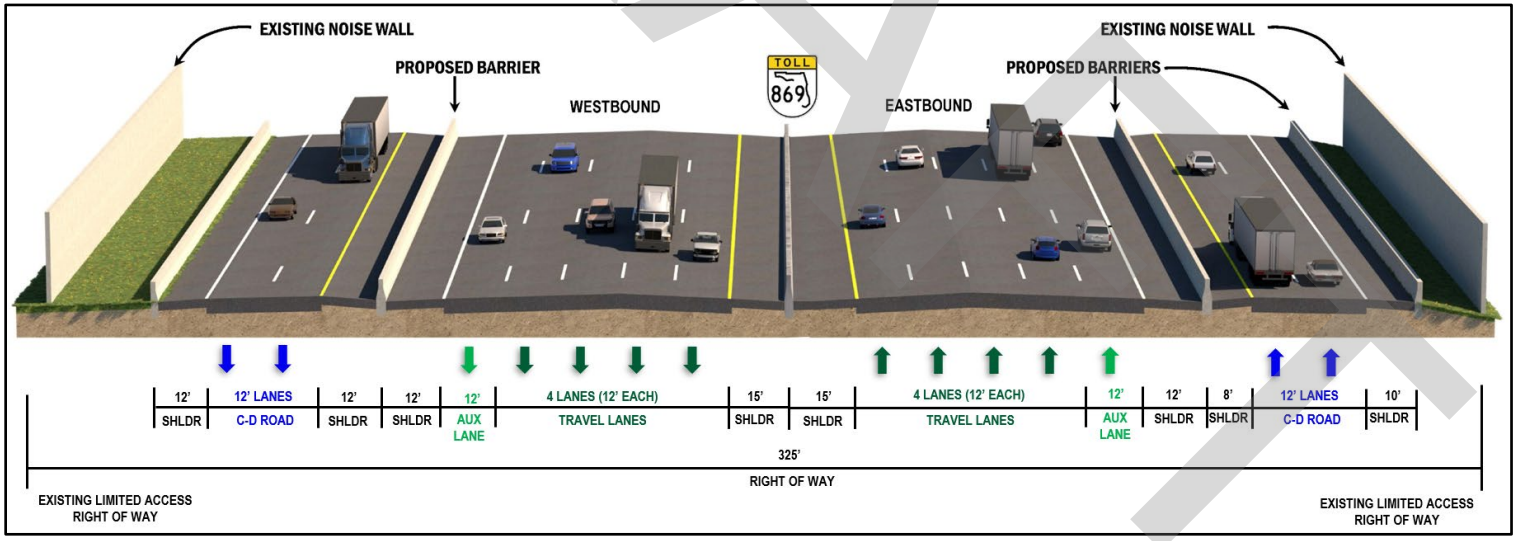

Figure 3.3 – Preferred Alternative Roadway Section between US 441 and Lyons Road

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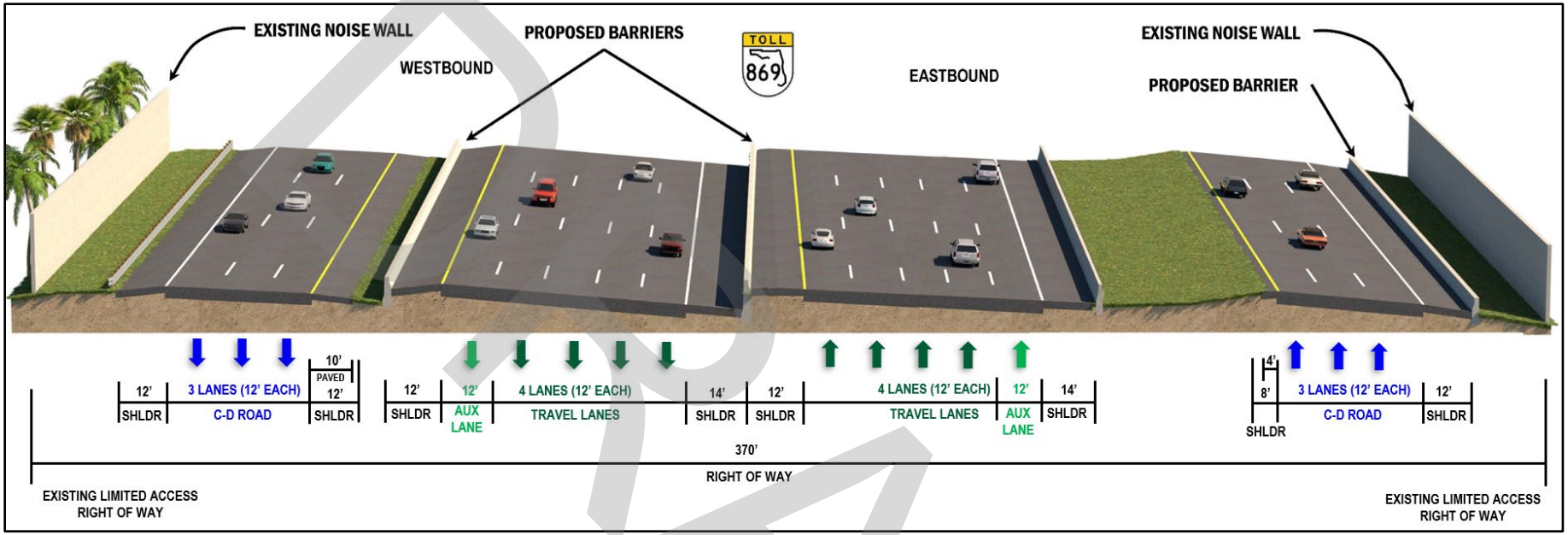

Figure 3.4 – Preferred Alternative Roadway Section between Lyons Road and Florida's Turnpike

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SW 10th Street – SW 10th Street, between Florida's Turnpike and Powerline Road, will consist of two separate roadway corridors: 1) SW 10th Street and 2) SW 10th Street Connector. This roadway section overlaps with the SW 10th Street project currently underway by FDOT District Four (FPID# 439891-1). This project is proposing to add two limited access connector lanes in each direction on the north side of the existing SW 10th Street corridor between Florida's Turnpike and I-95. The FDOT project is also proposing other corridor improvements along the SW 10th Street existing corridor (see ***Figure 3.5***). Some of the major improvements within this roadway section between Florida's Turnpike and Powerline Road are listed below:

- Realign the existing SW 10th Street corridor to the south to leave space on the north side for the new connector lanes. The new south corridor alignment will consist of 11-foot wide travel lanes, auxiliary lanes and turn lanes. The corridor will also have a raised center median and a shared-use path along the south side of the roadway.
- The connector lanes will begin and end at the Sawgrass Expressway within the Florida's Turnpike Interchange and will be grade separated over Powerline Road.
- A new SW 10th Street westbound bridge structure will be constructed just east of the Florida's Turnpike to allow the new connector lanes to cross under from the north side to the inside to merge with the Sawgrass Expressway to the west.
- Intersection improvements at Waterways Boulevard, Independence Drive and Powerline Road.

All the improvements listed above are expected to be constructed and opened to traffic before the implementation of the Sawgrass Expressway project. The Sawgrass Expressway widening project will tie to the FDOT SW 10th Street project east of the Florida's Turnpike.

Florida's Turnpike – The preferred alternative proposes to widen the Florida's Turnpike between Wiles Road and the County Line to four travel lanes and one thru lane in each direction for a total of ten lanes, with auxiliary lanes at select locations (see ***Figure 3.6*** and ***Figure 3.7***). Thru lanes are additional travel lanes that help provide congestion relief in high traffic areas. These lanes offer customers making longer, more regional trips, the ability to bypass the local traffic entering and exiting the road. Customers pay the same amount to use

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the thru lanes as they do in any other lane on the toll road. All mainline lanes and shoulders are 12-foot wide, with a 2-foot wide median barrier wall.

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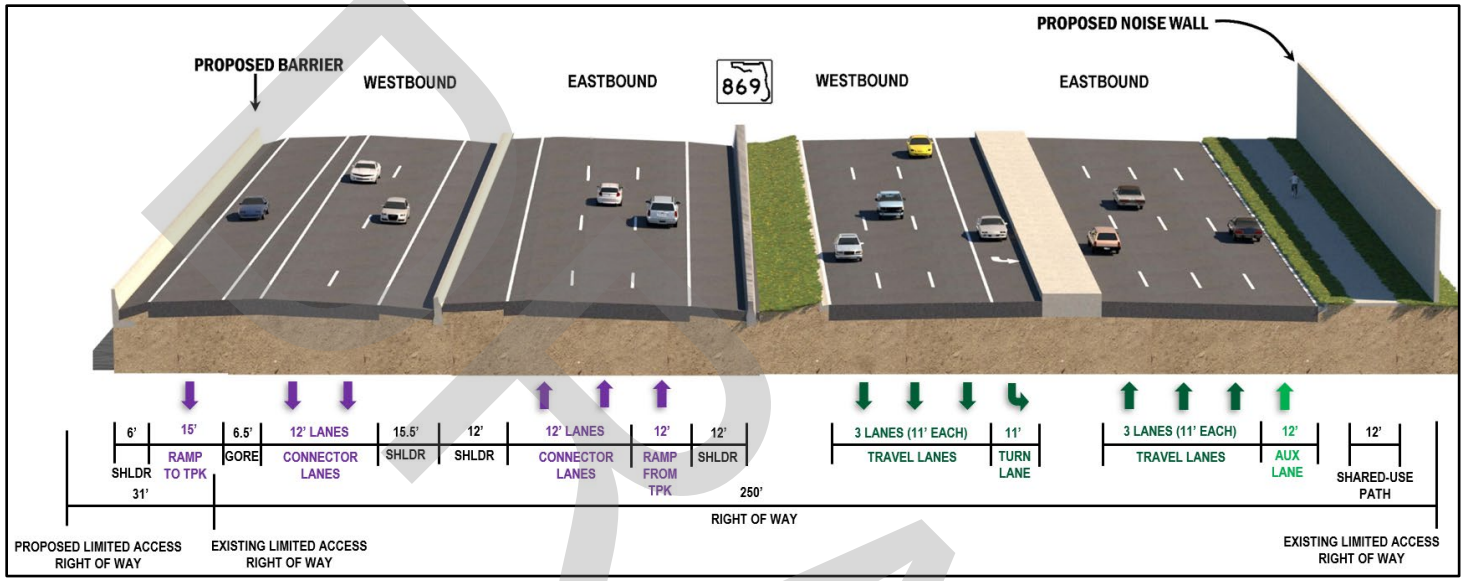

Figure 3.5 – Preferred Alternative Roadway Section between Florida's Turnpike and Powerline Road

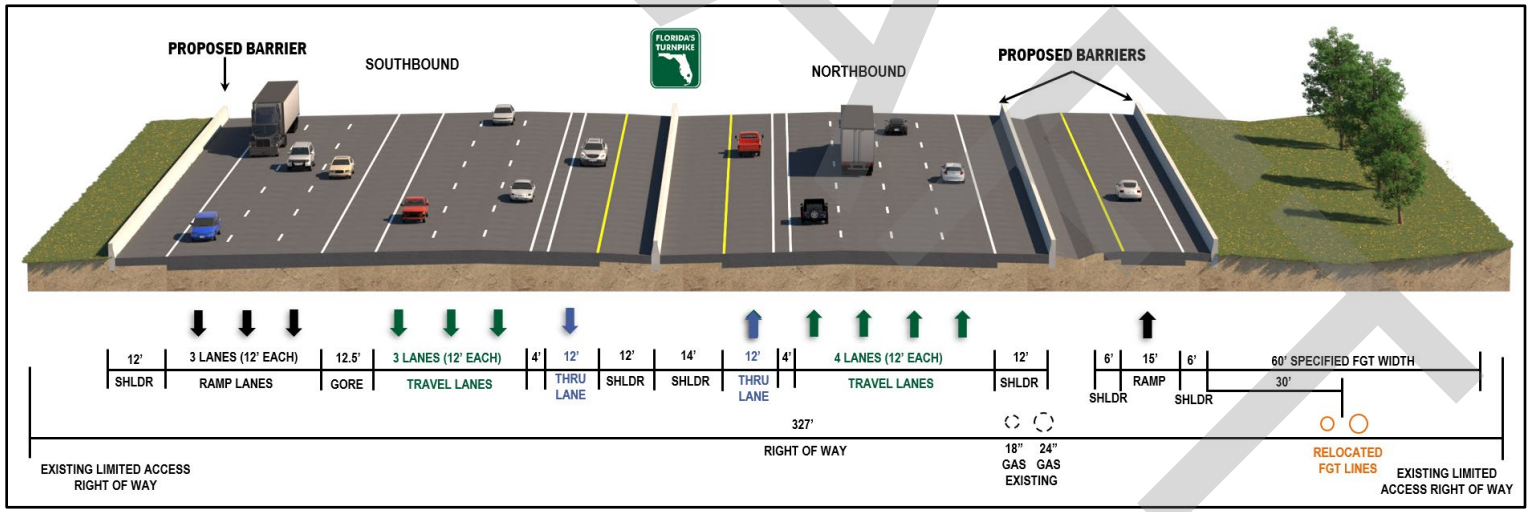

Figure 3.6 – Preferred Alternative Roadway Section between Wiles Road and Sawgrass Expressway

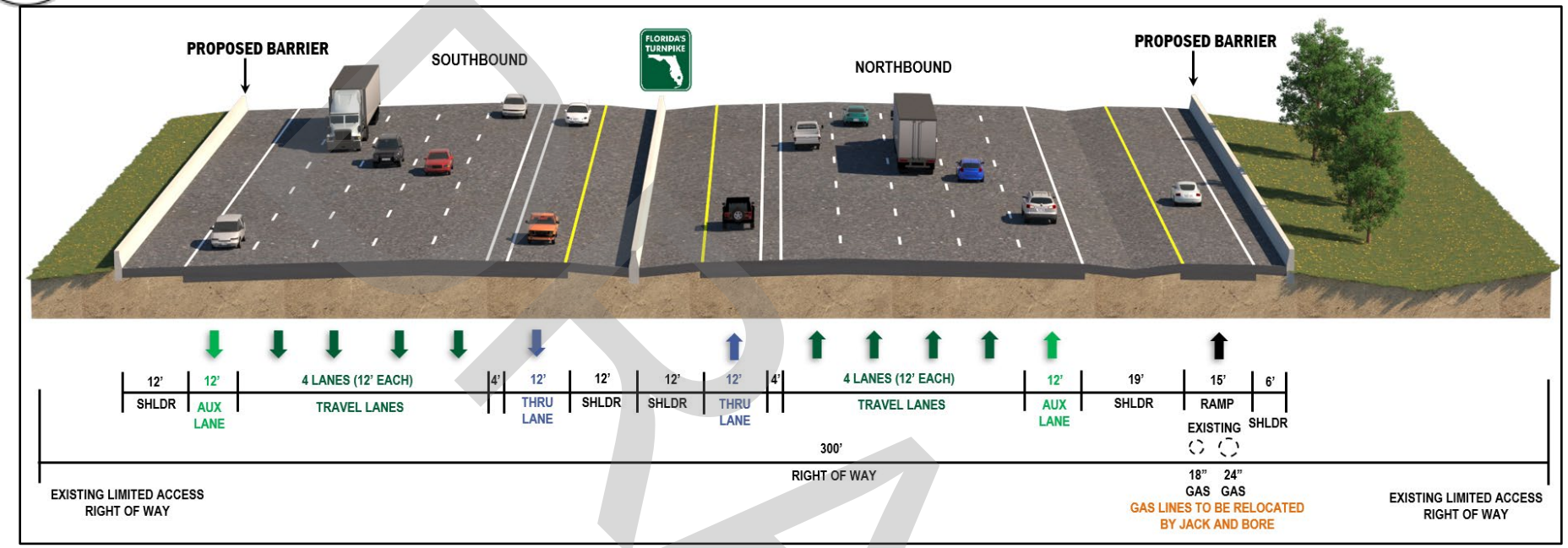

Figure 3.7 – Preferred Alternative Roadway Section between Sawgrass Expressway and the County Line

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US 441 – The preferred alternative is proposing one new bridge structure over US 441 for the westbound collector distributor roadway system. The preferred alternative is also proposing intersection improvements at the adjacent signalized intersections, Winston Park Boulevard to the south and Regency Lakes Boulevard to the north. At Winston Park Boulevard, the recommendation is to add a second left-turn lane eastbound and westbound. At Regency Lakes Boulevard, the recommendation is to add a second left-turn lane southbound.

Lyons Road – The preferred alternative is proposing two new bridge structures over Lyons Road for the eastbound and westbound collector distributor roadway systems. Another improvement at Lyons Road is the reconfiguration of the Sawgrass Expressway Interchange to a diamond interchange plus additional turn lanes at the ramp terminals. The preferred alternative is also proposing intersection improvements at the adjacent signalized intersections, Winston Park Boulevard to the south and Serko Boulevard to the north. At Winston Park Boulevard, the recommendation is to add a second left-turn lane southbound and northbound and a through-left-shared lane eastbound and westbound. At Serko Boulevard, the recommendation is to add a second left-turn lane southbound, northbound, eastbound, and westbound. The project also proposes to extend the existing bike lanes north to the Serko Boulevard intersection. This improvement will provide full multimodal connectivity under the Sawgrass Expressway and a safer route for bicyclists enhancing the mobility within the corridor.

Florida's Turnpike Interchange – The preferred alternative widens and improves the existing ramps. Some of these improvements include:

- Eliminating the northbound weaving section between the two loop ramps.
- Eastbound to northbound loop ramp widening to two lanes.
- Adding a southbound to westbound direct connection to the Sawgrass Expressway westbound lanes.
- Northbound to westbound loop ramp widening to two lanes.
- Eastbound to southbound ramp widening to two lanes.

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The preferred alternative also adds the missing direct connection ramps between SW 10th Street and Florida's Turnpike. The proposed new direct connections are:

- Florida's Turnpike southbound to SW 10th Street eastbound
- Florida's Turnpike southbound to SW 10th Street Connector eastbound
- SW 10th Street westbound to Florida's Turnpike southbound
- SW 10th Street Connector westbound to Florida's Turnpike southbound
- SW 10th Street westbound to Florida's Turnpike northbound
- SW 10th Street Connector westbound to Florida's Turnpike northbound
- Florida's Turnpike northbound to SW 10th Street eastbound
- Florida's Turnpike northbound to SW 10th Street Connector eastbound

Figure 3.8 shows a schematic line diagram of the preferred alternative.

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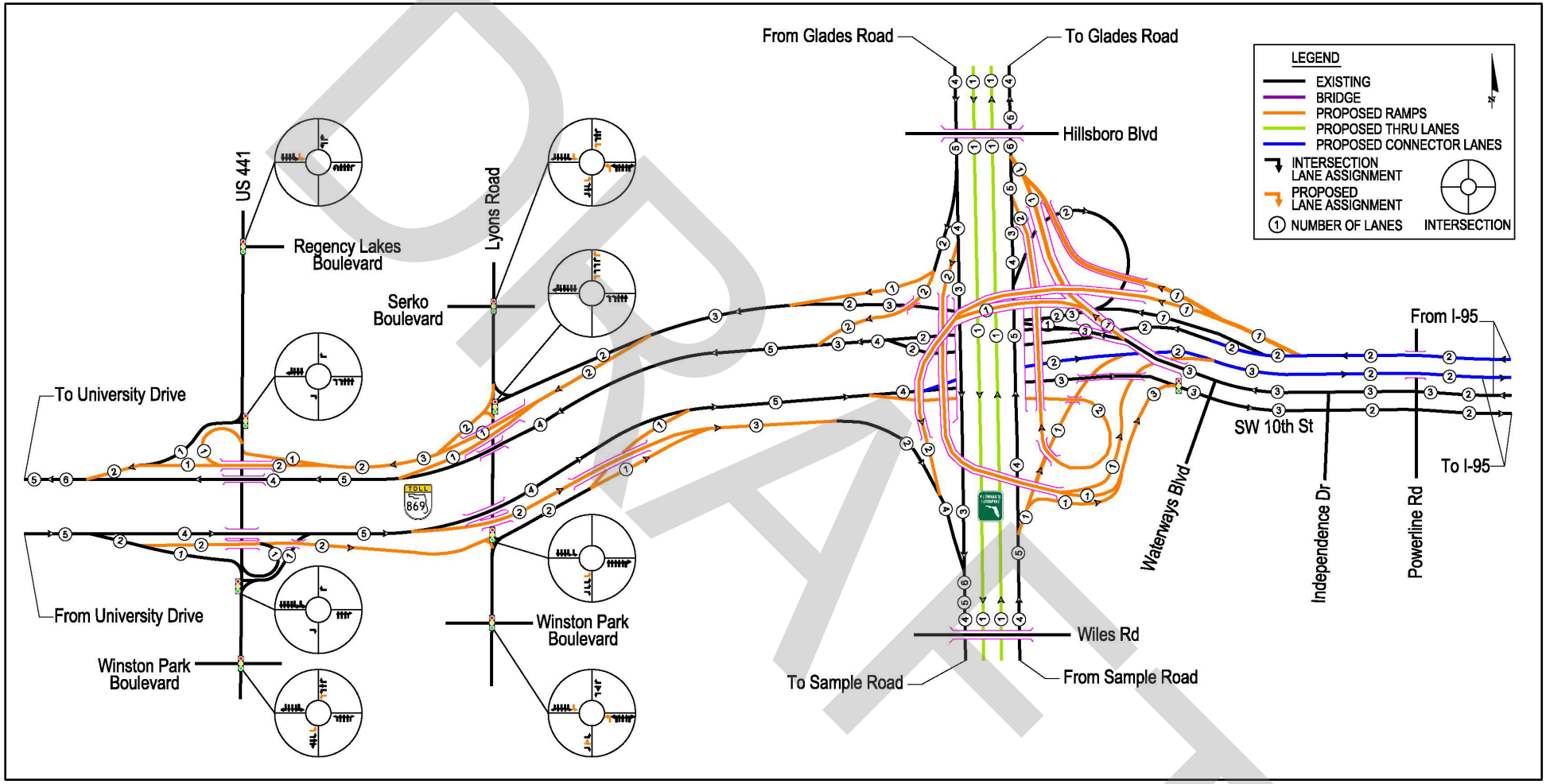

Figure 3.8 – Preferred Alternative Schematic Line Diagram

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4.0 PROJECT AREA DESCRIPTION

The project is located in northern Broward County near the communities of Coral Springs, Parkland, Coconut Creek, and Deerfield Beach. The term "project corridor" is used in this document to refer to the footprint of the Preferred Alternative, an area that includes the existing plus the proposed right-of-way, and which represents the limits of construction for the Preferred Alternative. The term "project area" represents a larger expanse that encompasses the project corridor as well as all land within 500 feet (***Figures 4.1*** through ***4.2***). The project area is heavily urbanized and lacks undisturbed natural plant communities. Predominant land uses include residential, commercial, and industrial. Quiet Waters Park is located in the northeast quadrant of the intersection of Sawgrass Expressway and FTE. Acquisition of new right-of-way is proposed under the preferred alternative along the southern and western edges of Quiet Waters Park. The project corridor extends north on Florida's Turnpike and terminates at the Hillsboro Canal, which forms the boundary between Broward and Palm Beach Counties.

4.1 LAND USE

Land use cover descriptions provided for both uplands and wetlands are classified utilizing the *Florida Land Use Cover and Forms Classifications System* (FLUCCS) designations. Previous and existing land uses in the project area were initially determined utilizing US Geological Survey (USGS) maps, historical images, aerial photographs, and land use mapping from the South Florida Water Management District (SFWMD) (2017-2019). Land use categories in the project area reported by SFWMD were verified in the field. Field reviews generally confirmed the SFWMD land use mapping with very minor adjustments. Land use categories in the project area as mapped by SFWMD are shown in ***Figures 4.1*** *and* ***4.2*** and each land use category in the project area is described below.

Fixed Single Family Units (Low Density Urban) (FLUCCS – 1110)

Fixed single-family structures are usually identified by their sizes, shapes, and the character of the associated developed area. Residential areas include the main houses, garages and other outbuildings, and the developed portions of the lot (lawns, gardens, mowed areas, fenced land, drives and paths, etc.). This

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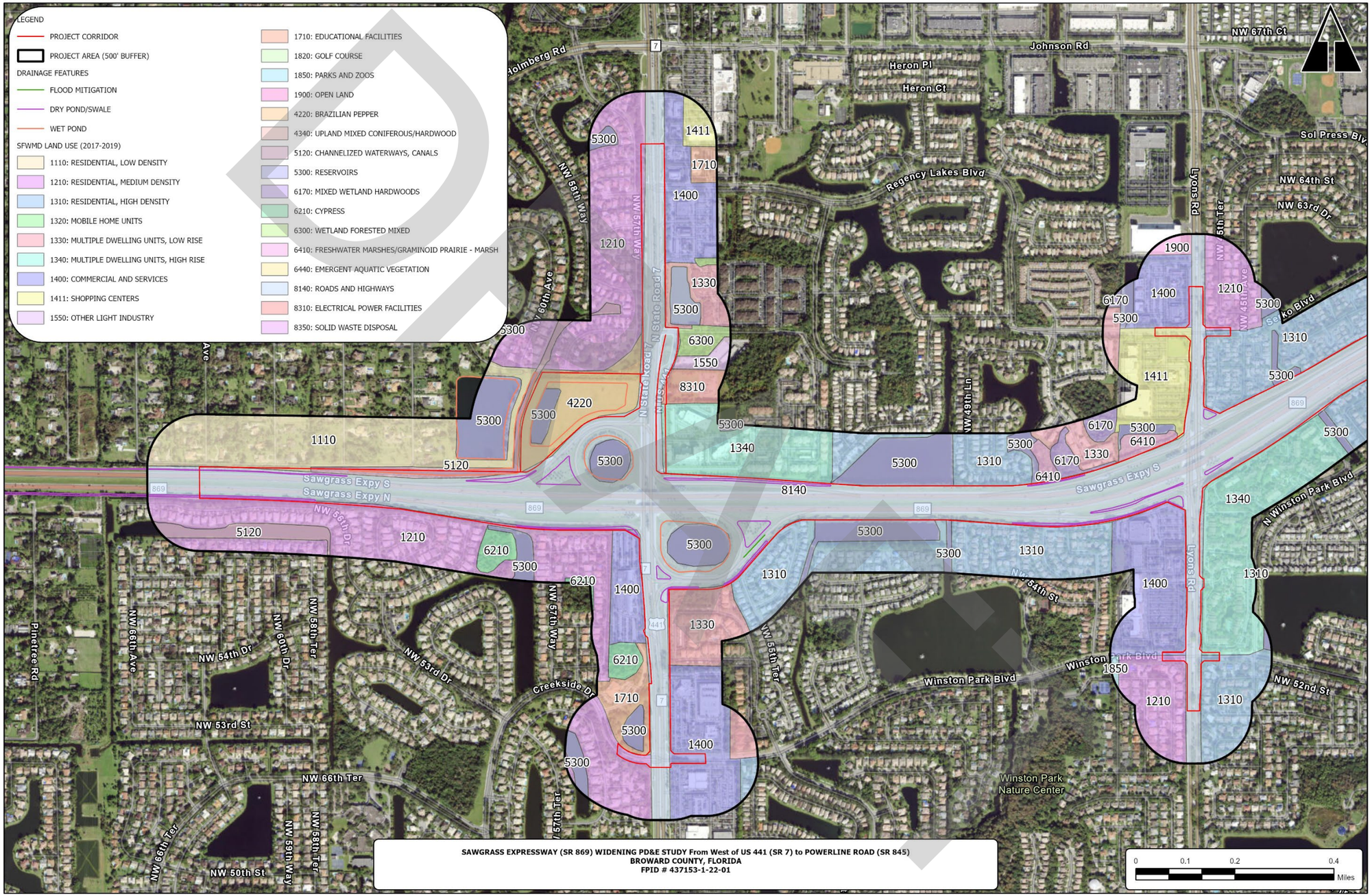

Figure 4.1 — Land Use in Western Project Area

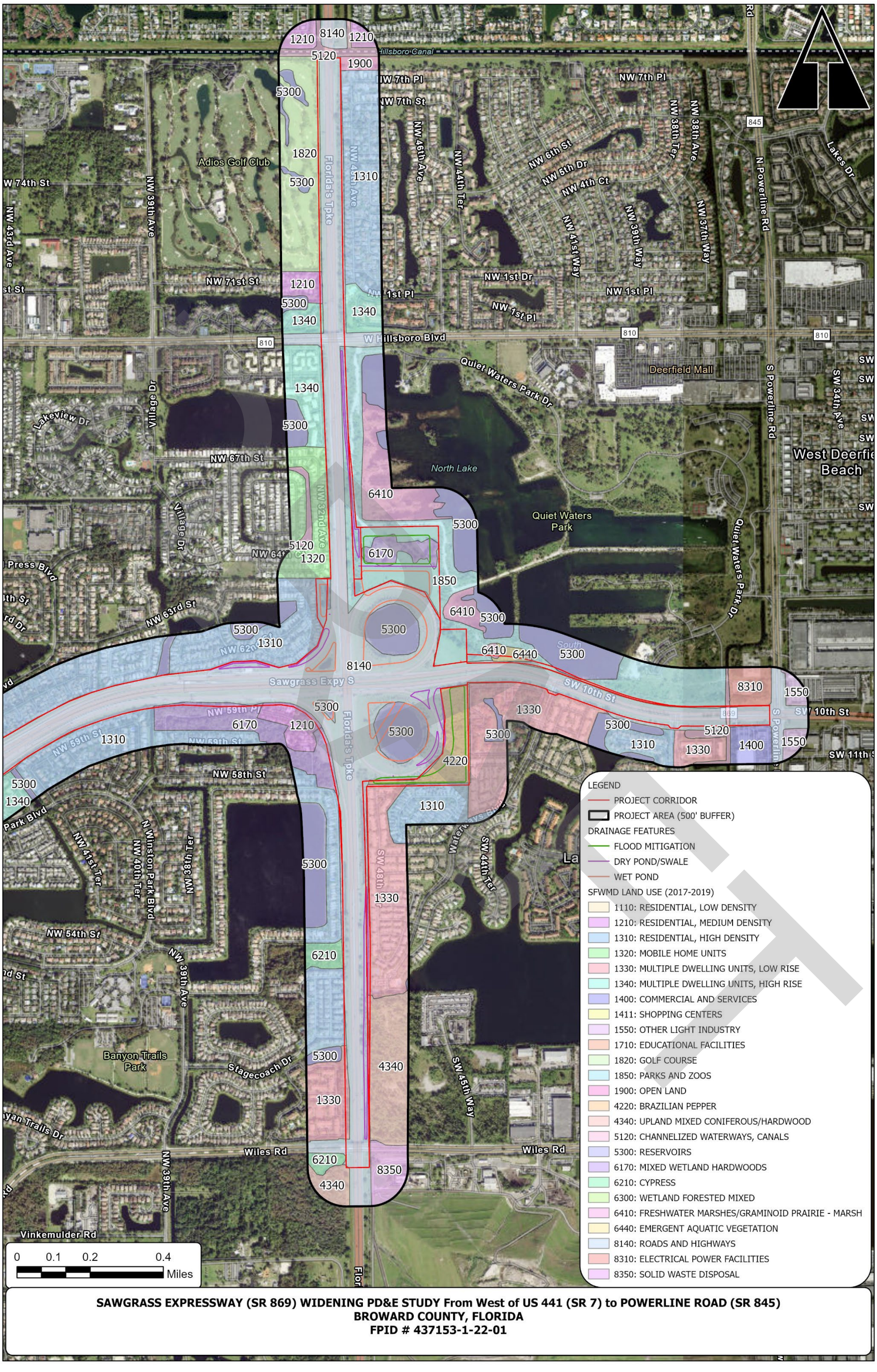

Figure 4.2 — Land Use in Eastern Project Area

land use type occurs near the western end of the project area, both north and south of Sawgrass Expressway and approximately 1 mile west of US 441.

Fixed Single Family Units (Medium Density Urban) (FLUCCS - 1210)
Two to five single-family structures per acre meet density requirements for this class. Fixed single family structures are usually easily identified by their sizes, shapes, and character of the associated developed area. The roof area appears to cover less than half of the lot area. This land use type is found in large pockets throughout the project area including 0.6 mile west of US 441, 0.4 mile south of the interchange with US 441, adjacent to Lyons road on the eastern side immediately north of Sawgrass Expressway, 0.6 mile northeast of Lyons road at Sawgrass Expressway, and along the western side of turnpike adjacent to the intersection of Sawgrass Expressway. This document identifies Site #8, located in the northeast quadrant of the Lyons Road-Serko Boulevard intersection, as a potential source of contamination risk because it is a retail gas station. That parcel is mapped as Fixed Single Family Units land use, but it is used as a retail fuel facility.

Fixed Single Family Units (High Density Urban) (FLUCCS - 1310)
This category refers to six or more single-family structures per acre. Fixed single family structures are usually easily identified by their sizes, shapes, and character of the associated developed area. The roof area appears to cover more than half of the lot area. This land use type is found in two locations in the project area, approximately 0.3 mile northeast of the intersection of Sawgrass Expressway and Lyons Road and approximately 0.3 mile west of the intersection at Powerline Road.

Mobile Home Units (FLUCCS – 1320)
This category refers to rectangular and light-toned structures, from 8' to 12' wide and 30' to 50' long that may or may not be on permanent foundations. Mobile home residential areas are found almost anywhere that fixed-unit single-family residential areas are found. They occur in rural areas, at the urban fringe (often as infill among older, lower-density residential areas), and in medium- and high-density residential areas (often either adjacent to or incorporated within the newer subdivision developments or "housing estates"). In most instances, mobile home areas have clear boundaries which abut other residential areas, open areas, agricultural areas, limited-access highways, and large water bodies. This

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class is found in one location in the project area along the west side of the Turnpike approximately 0.25 mile north of Sawgrass Expressway.

Multiple Dwelling Units- Low Rise (FLUCCS – 1330)
This category refers to two-story town houses, one- or two-story "garden apartments" and duplexes. Most of the low-rise residential areas are newer developments. They commonly occur at the urban fringe, often as infill developments among older, lower-density residential areas. In most instances the low-density housing developments have clear boundaries which abut other residential areas, agricultural areas, limited-access highways, and large water bodies, etc. This land use type is found in two locations in the project area. The first along the west side of the Turnpike approximately 0.9 mile south of Sawgrass Expressway and the second just south of Sawgrass Expressway approximately 0.3 mile east of Turnpike.

Multiple Dwelling Units- High Rise (FLUCCS – 1340)
This category includes town houses, apartments and condominiums of three stories or more. Most of the high-rise residential areas are newer developments. They commonly occur within high-density areas of detached single-family housing and low-rise residential structures. They are often adjacent to shopping centers, commercial strip developments, and downtown commercial areas. In some instances groups of high-rise developments have clear, but irregular boundaries, with other intensive land uses, but equally often, they occur as scattered developments with a well-defined boundary for only a single building or a small group of buildings. This is common with newer developments. This land use type is found in two places in the project area. One along Lyons Road on the eastern side, south of the intersection with Sawgrass Expressway and the other along the west side of the Turnpike, approximately 0.6 mile north of Sawgrass Expressway. Multiple sites of potential contamination risk identified in this document are on parcels mapped under this land use, including Sites 3, 4, and 6.

Commercial and Services (FLUCCS – 1400)
This category includes a broad range of uses which can be difficult to differentiate individually. Only the Level 3 classes 1460 Oil and Gas Storage and 1480 Cemeteries, and the Level 4 classes 1411 Shopping Centers and 1423 Junk Yards are delineated separately. This broad class includes many operations providing diverse products and services which often occur in complex mixtures. Subclasses include retail and wholesale, professional, cultural and

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entertainment, and tourist services, as well as others. This class is found in multiple locations in the project area, including to the southwest and northeast of the intersection of Sawgrass Expressway and US 441, along the west side of Lyons Road immediately south and approximately 0.2 mile north of the intersection with Sawgrass Expressway, and along the east side of Powerline Road north and south of the intersection with Sawgrass Expressway. Multiple sites of potential contamination risk identified in this document are on parcels mapped under the Commercial and Services land use. These include sites 1, 5, 7, 15, 16, 17, and 18. The sites are either retail gas stations or businesses with storage tanks.

Shopping Centers (FLUCCS – 1411)

This category refers to varying size and shape buildings with common parking facilities for customers, having the structures arranged around the parking area. Buildings may be made up of single structures with multiple units (strip stores), single structures for a single unit (such as a department/discount store) or multiple unconnected buildings for multiple units (upscale "bungalow" or "cottage" units). This land use type is found in urban and suburban settings throughout the project area, especially along major highways and at highway and road intersections. These land uses (especially smaller shopping centers) may also be adjacent to or within residential areas. The boundaries of shopping centers are usually regular and distinct. This land use type is found adjacent to the northwest of the intersection of Sawgrass Expressway and Lyons Road.

Other Light Industry (FLUCCS – 1550)

This classification is used primarily for fabrication industries. These specific facilities use products from other processing and manufacturing industries to make parts and finished products. This land use type occurs in 3 locations in the project area. One of those locations is north of Sawgrass Expressway and east of US 441. The other two parcels mapped as Other Light Industry are located at the intersection of Sawgrass Expressway and Powerline Road. One of those parcels corresponds to potential contamination site #14 (Med Care Pharmacy).

Golf Courses (FLUCCS – 1820)

This is a type of recreational land use that is easily recognizable by its landscaped features. The 1820 mapping unit includes all facilities that are involved with the operation of the golf course and associated recreation, including club houses, storage buildings and parking lots. Other recreational facilities such as swimming pools and tennis courts are included if they are auxiliary to the golf club. This land use type is mapped in the project area to the

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west of Florida's Turnpike, between Hillsboro Boulevard and the Hillsboro Canal to the north, at Adios Golf Club. This parcel corresponds with potentially contaminated site #19 (Adios Golf Club).

Parks and Zoos (FLUCCS – 1850)

This category refers to operational facilities that make up the active service areas of various outdoor and recreational land uses. The class includes public and private parks - both rural and urban, campgrounds, zoos, fairgrounds, botanical gardens and other. The parks may contain a variety of sub-activities, including play facilities, athletic fields, small museums, zoos, exhibit areas, campgrounds, swimming areas, monuments and fountains, gardens and other facilities. This land use type in the project area represents Quiet Waters Park. Quiet Waters Park is a Broward County Park that includes multiple lakes, hiking and mountain biking trails, and facilities for park visitors. The main park entrance is off of Powerline Road, north of the project. Recreational trails, a lake and a smaller pond that are lined with wetland vegetation occur along the southern edge of Quiet Waters Park, adjacent to the existing right-of-way. Recreational trails and an unpaved road occur along the western boundary of Quiet Waters Park, abutting FTE right-of-way.

Brazilian Pepper (FLUCCS – 4220)

This category refers to the exotic, pestilent tree species found on peninsular Florida from the Tampa Bay area southward. Brazilian pepper grows on a broad range of sites in South Florida, ranging from mangroves to pinelands. It thrives on disturbed soils and in newly created habitats resulting from drainage and farming. It is an early invader of disturbed sites, and it also becomes established in the understory of dense forests, then capturing the site when gaps occur in the canopy. This community is disturbance dependent. Accordingly, it can occur anywhere within the landscape where disturbance or man's influence results in acceptable conditions for establishment of this aggressive and invasive exotic shrub. The community can be found along almost every roadway and canal throughout the district. Areas of former agriculture or abandoned development are also prime targets for invasion by this species. This class is found in 4 locations in the project area. One area is northeast of the Sawgrass Expressway and US 441 intersection. The other three areas are near the intersection of Sawgrass Expressway and Florida's Turnpike.

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Upland Mixed Coniferous/Hardwood (FLUCCS – 4340)
This category is used for those forested areas in which neither upland conifers nor hardwoods achieve 67 percent crown canopy dominance. It may include communities such as oak-pine-hickory, Brazilian pepper, live oak, wax myrtle-willow (not hydric), mixed temperate or tropical hardwoods, and beech-magnolia. Upland pine communities include slash, longleaf, and sand pines. Upland Mixed Coniferous/Hardwoods are found in one location in the project area on the east side of the Turnpike approximately 0.7 mile south of the intersection with Sawgrass Expressway. Part of that area that is mapped as Upland Mixed Coniferous/Hardwood corresponds to potentially contaminated site #12, Central Sanitary landfill and Recycling Center, which is identified in this document as a potential source of contamination risk.

Channelized River, Stream, Waterway (FLUCCS – 5120)
This class includes artificially improved rivers, creeks, canals and other linear water bodies flowing across the landscape within man-made (or substantially man-made or altered) channels. They are delineated where they average 50 feet or greater in width. Where the water course is interrupted by a control structure, the impounded water area will be classified as 5300 Reservoirs. This class is found in two locations in the project area. On the north side of Sawgrass Expressway approximately 0.4 mile west of the intersection of US 441 and approximately 0.2 mile southwest of the intersection of Sawgrass Expressway and Powerline Road.

Reservoirs (FLUCCS – 5300)
Reservoirs are artificial impoundments of water, or water bodies that have been significantly modified from their natural state. They are used for irrigation, flood control, municipal and rural water supplies, stormwater treatment, recreation and hydro-electric power generation. This class is found in five locations in the project area. Adjacent to the northwest of the intersection of Sawgrass Expressway and US 441, north and south of Sawgrass Expressway approximately .06 mile east of the intersection with US 441, approximately 0.7 mile northeast of the intersection with Turnpike, approximately 0.9 mile southeast of the intersection with Turnpike, and approximately 0.2 mile southwest of the intersection with Powerline Road.

Mixed Wetland Hardwoods (FLUCCS – 6170)
This class is a general class for any wetland hardwood forests that do not fall in to one of the other 6100 subclasses (bay swamps, mangroves, cabbage palms

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or exotic species). Examples of this class include bottomland and floodplain communities dominated by hardwoods, willow swamps and mixed hardwoods found in other landscape positions. This class is found in two locations of the project area. One approximately 0.1 mile southwest of the intersection with Turnpike and the other approximately 0.2 mile northeast of the intersection with Turnpike.

Cypress (FLUCCS – 6210)
This class is for forested wetland communities in which pond cypress or bald cypress comprises over 67 percent of the forest canopy. In the case of pond cypress, common associates are swamp tupelo, slash pine and black titi. In the case of bald cypress, common associates are water tupelo, swamp cottonwood, red maple, American elm, pumpkin ash, Carolina ash, overcup oak and water hickory. Bald cypress may be associated with laurel and water oaks, sweet gum and sweet bay on drier sites. This land use category is present in the project area at the southwest corner of the intersection of Wiles Rd and Turnpike and approximately 0.8 mile southwest of the intersection of Sawgrass Expressway and Turnpike.

Freshwater Marshes/Graminiod Prairie-Marsh (FLUCCS – 6410)
This class is used for wetlands communities characterized by herbaceous plant species that occur on sites where surface water is present for extended periods during the growing season, but is absent by the end of the growing season in most years. This class is found in one location of the project area adjacent to the northwest of the intersection of Sawgrass Expressway and Lyons Road.

Roads and Highways (FLUCCS – 8140)
This class includes those highways exceeding 100 feet in width, with 4 or more lanes and median strips. The intent of this data layer is to include only the major transportation corridors. This class covers all paved roadway area within the project area.

Electrical Power Facilities (FLUCCS – 8310)
This category includes fossil fuel and nuclear plants. Subsidiary facilities included are cooling ponds or towers, canals and facilities for receiving and storing fuel (coal, oil), parking areas and transformer yards. This land use type occurs in one place in the project area, adjacent to the northwest of the intersection of Sawgrass Expressway and Powerline Road.

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Electrical Power Transmission Lines (FLUCCS – 8320)
This class includes only high-voltage power transmission lines. The rights-of-way (ROWs) are not usually shared with any other utilities and have a distinct appearance due to design considerations. The ROWs appear as long, linear strips that transect the landscape. This land use type occurs in one place in the project area, north and south of Sawgrass Expressway approximately 1.0 mile west of the intersection with US 441.

Solid Waste Disposal (FLUCCS – 8350)
This class includes sanitary landfills, dumps and other waste disposal areas. The sites may be publicly or privately operated, and may or may not be permitted. It does include dumps and landfills that are found at private operations such as farms, institutions, industrial and commercial sites, if they meet size criteria. However, it does not include storage of uniform wastes and residuals that are part of a normal process stream, such as mine tailings and treatment plant sludges. These are treated as subsidiary to the operation and included with the applicable land use. This class is found in one location of the project area southeast of the intersection of Powerline Road and Wiles Road. Multiple sites of potential contamination risk identified in this document are on parcels mapped under the Solid Waste Disposal land use type, including Site # 11 (Chemical Waste Management Pompano) and Site # 13 (Monarch Hill).

4.2 Elevation And Hydrology

The study area is located on relatively flat land with a ground elevation ranging between approximately 81 and 101 feet. ***Figure 4.5*** shows an elevation map created with data collected by the National Oceanic and Atmospheric Administration and the U.S. Department of Commerce in 2007 using Light Detection and Ranging (LIDAR) in North American Datum 1983 (NAD 83).

Major hydrologic features and wetlands mapped by the US Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) in the project area are shown in ***Figure 4.6*** *and* ***4.7***. The NWI maps Riverine and Freshwater Pond areas in multiple locations that are manmade drainage and stormwater features. There are two patches for Freshwater forested/shrub wetlands south of Sawgrass Expressway and immediately west of FTE. The project corridor includes areas mapped as Lake and Freshwater Pond along the southern edge of Quiet Waters Park.

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According to the flow pattern map from the SFWMD, groundwater flow in the project area is generally to the east-southeast. The project is underlain by the Biscayne Aquifer which is a Sole Source Aquifer as identified by the U.S. Environmental Protection Agency (USEPA). Based on a review of the Florida Department of Health website (http://gis.doh.state.fl.us/ehwater/index.html), no potable wells are present with the project area.

According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (updated August 18, 2014), most of the project area is located outside the 500-year floodplain (Zone X). There are three small areas within the project area mapped as being within the 500-year floodplain (Zones AE and AH). Areas mapped as flood zone AE and AH are located 0.25 mile northwest of the intersection of US 441 and Sawgrass Expressway, drainage areas and stormwater ponds at the intersection of US 441 and Sawgrass Expressway, surface water ponds north and south of Sawgrass Expressway approximately 0.3 mile east of the intersection of US 441 and Sawgrass Expressway, north and south of Sawgrass Expressway at the intersection of Sawgrass Expressway and Lyons Road, drainage ditches north and south of Sawgrass Expressway from the intersection of Sawgrass Expressway and Lyons Road to the intersection of Sawgrass Expressway and Turnpike, and the drainage areas and stormwater ponds at the intersection of Sawgrass Expressway and Turnpike.

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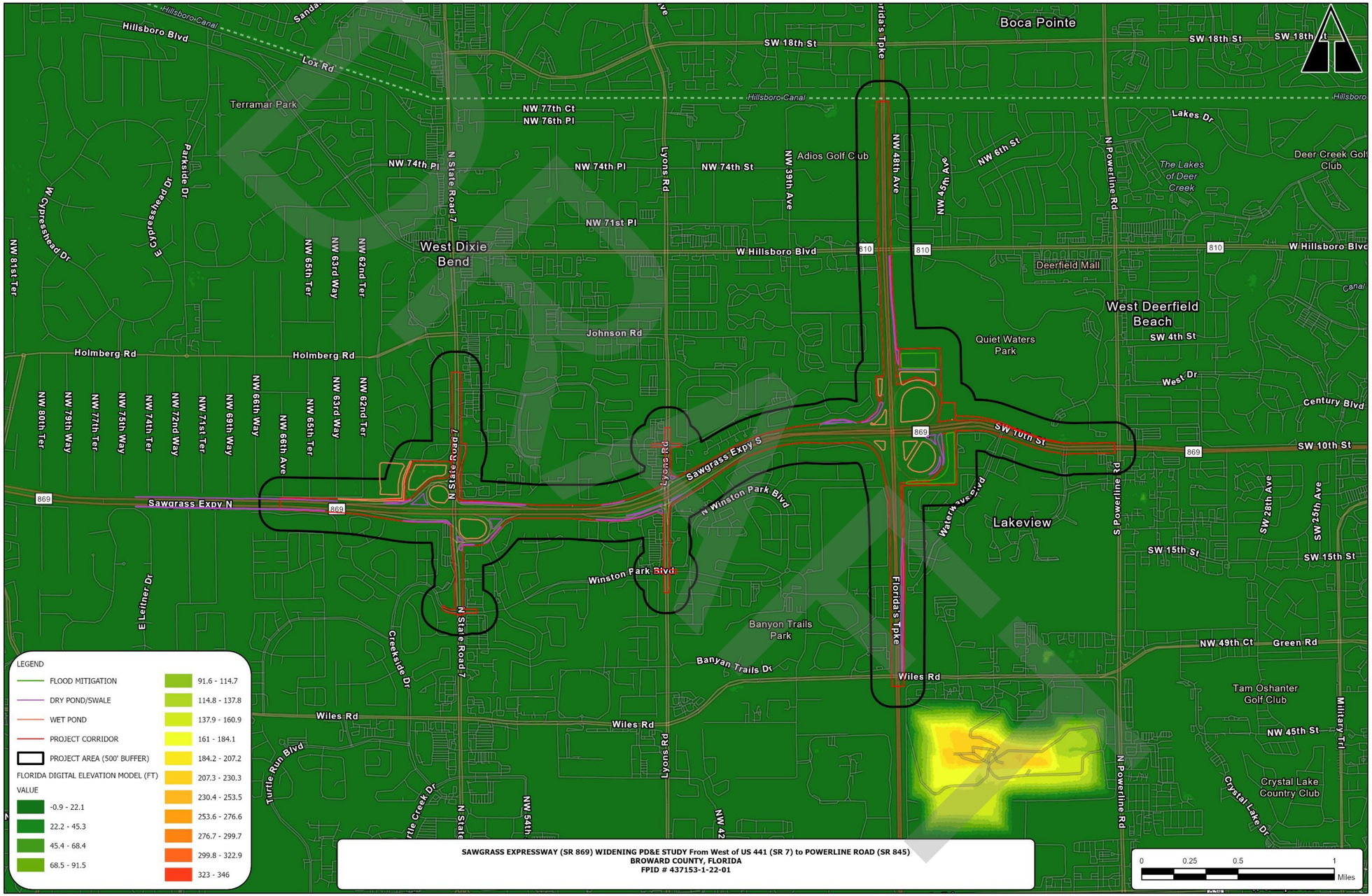

Figure 4.3 — Elevation

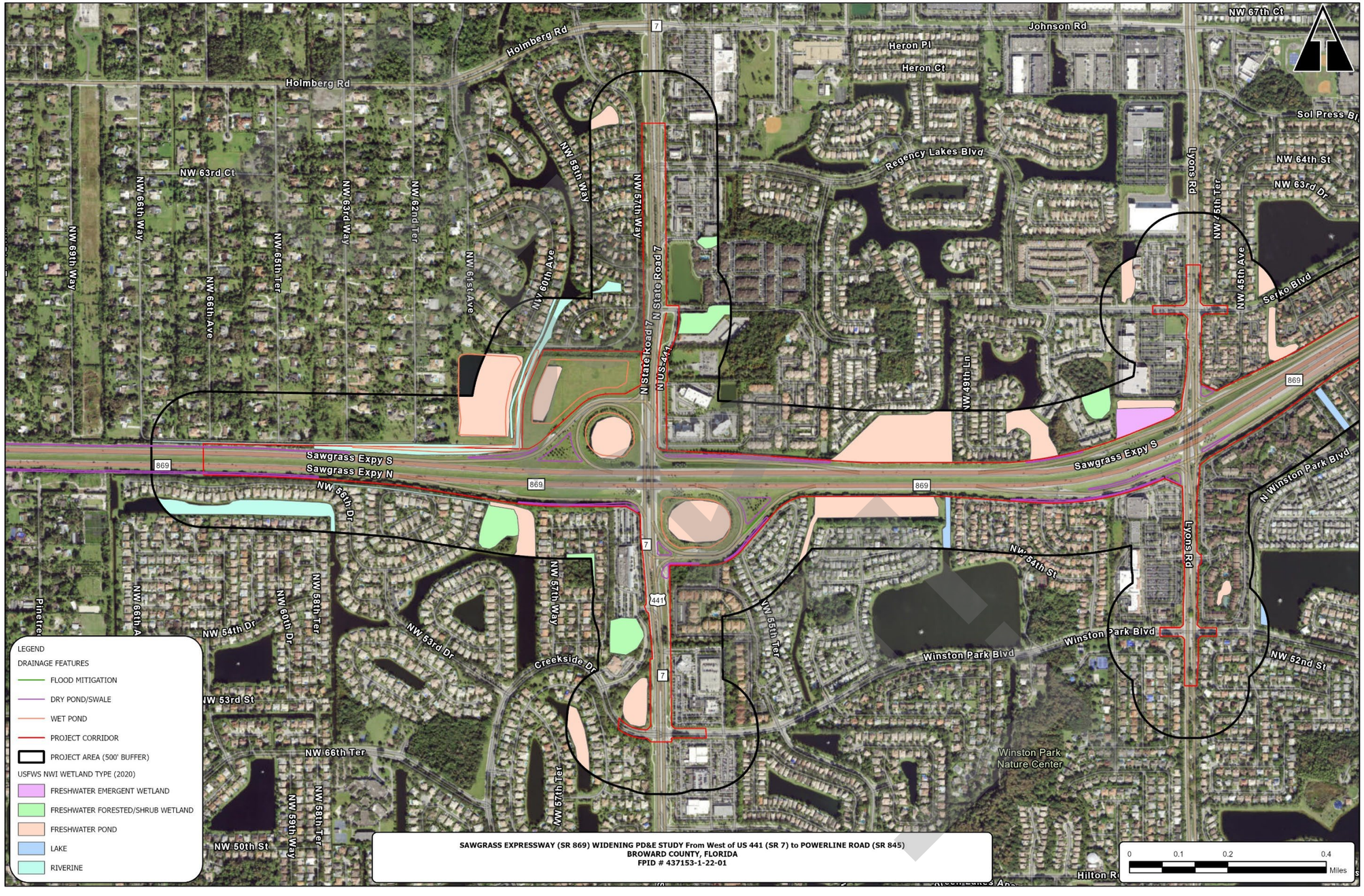

Figure 4.4 — National Wetlands Inventory in Western Project Area

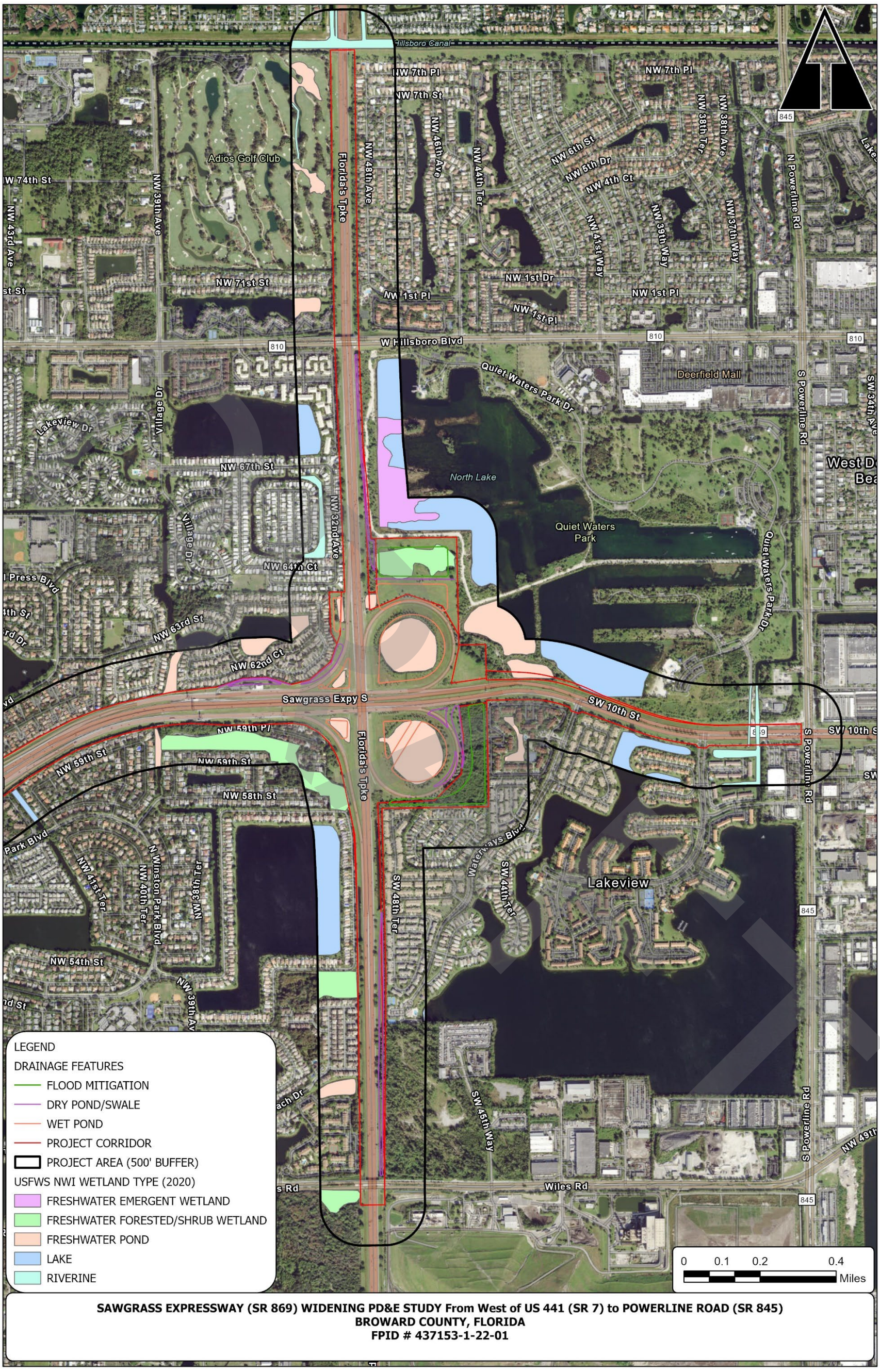

Figure 4.5 — National Wetlands Inventory in Eastern Project Area

4.3 SOILS

The Natural Resources Conservation Service (NRCS) (2014) indicates 11 soil types occur in the project area, and nine soil types exist within the project corridor, where soil disturbance would occur under the Preferred Alternative (***Figures 4.10*** *and* ***4.11***). The soil types in the project area are listed in **Table 4.1** along with descriptions and ratings from NRCS. One hydric soil is known to occur in the project area: Plantation Muck. Neither prime farmland soils nor farmland soils of unique importance occur within the project area.

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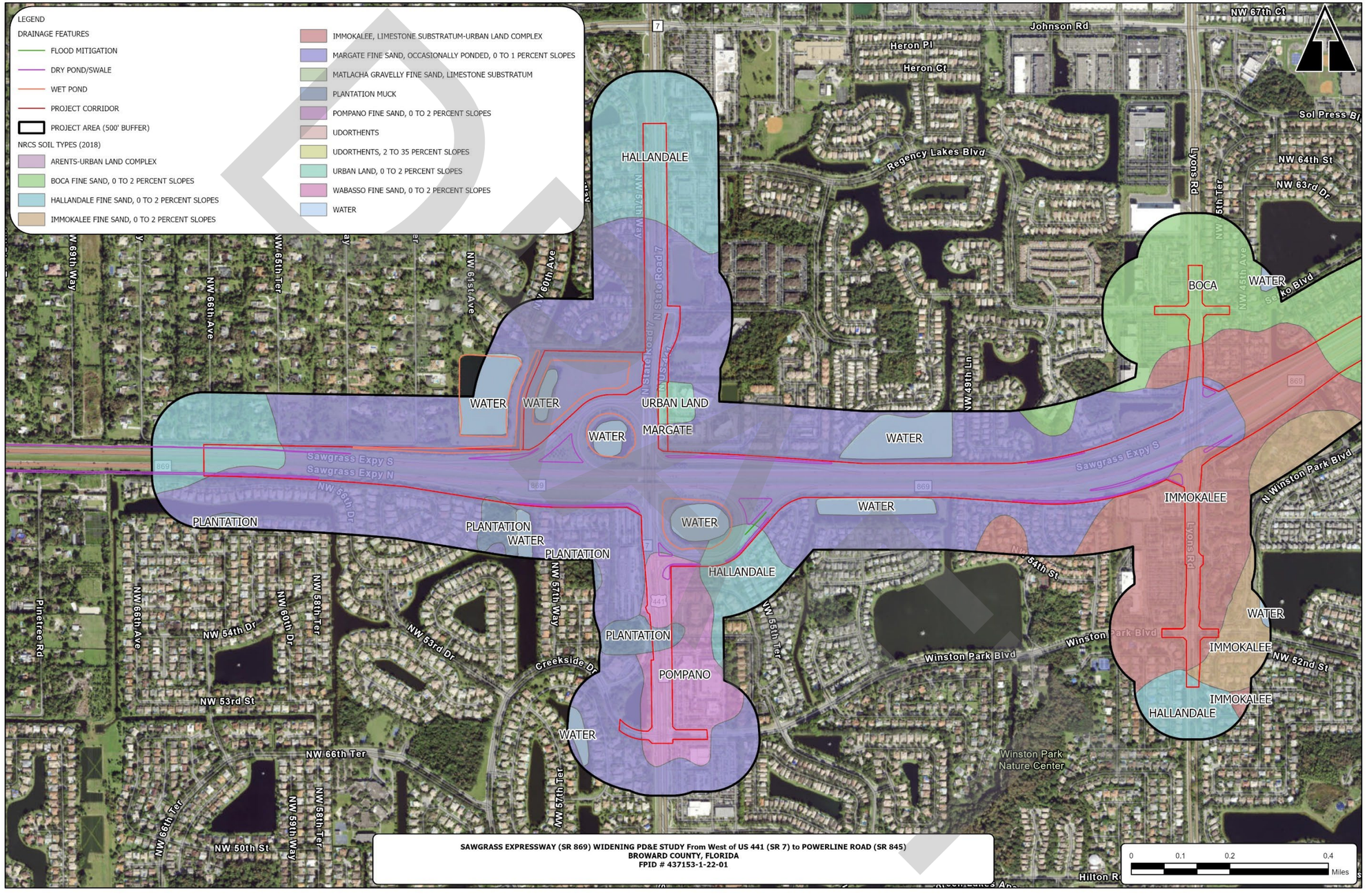

Figure 4.6 — Soil Map in Western Project Area

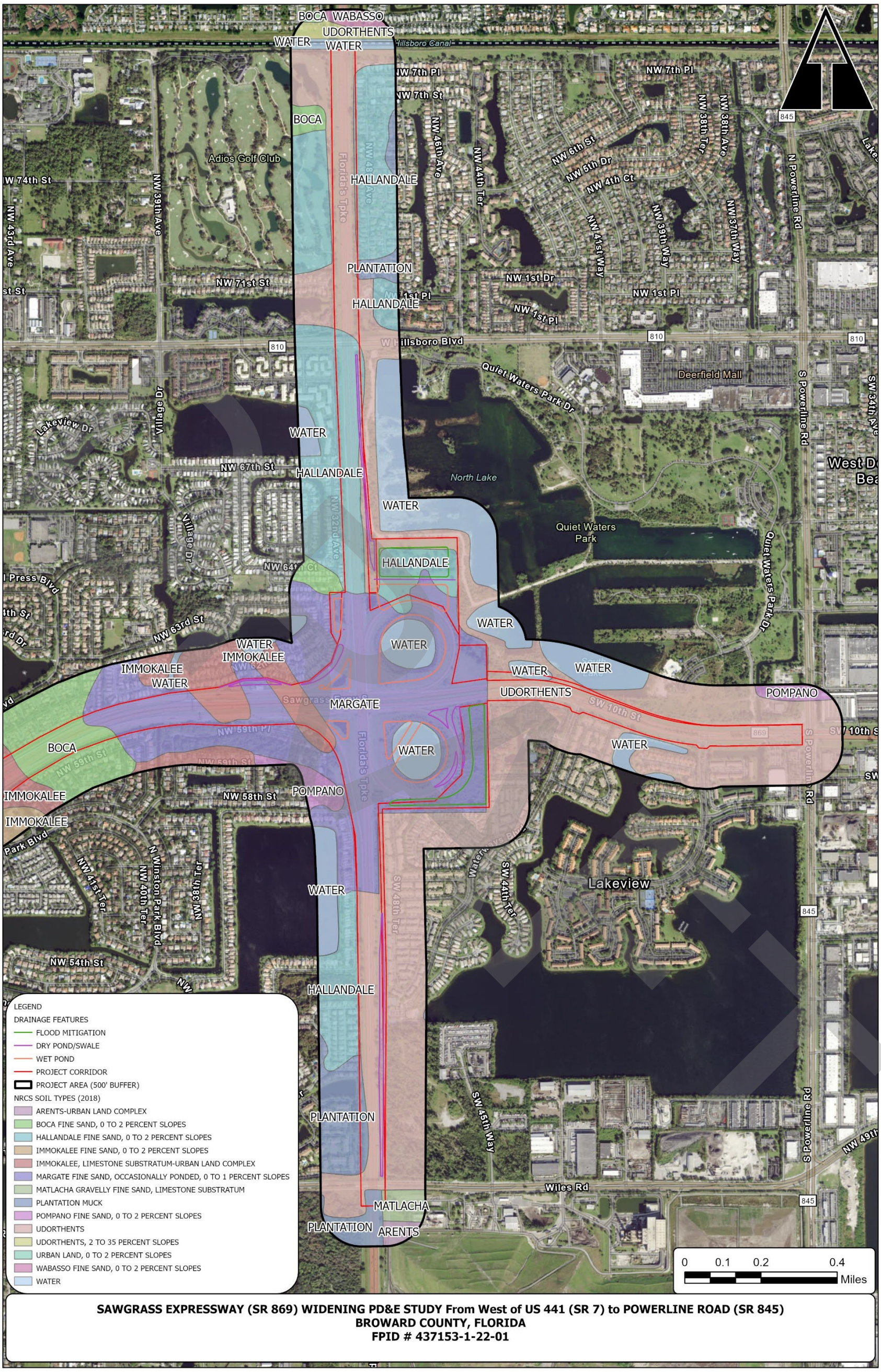

Figure 4.7 — Soil Map in Central Project Area

Table 4.1— NRCS Soil Types in Project Area

Soil Type	Environmental Association	Approximate Percent of Project Area
Arents- Urban Land Complex	This soil type consists of soils that have been filled, graded, and shaped for urban development. It is found north of Port Everglades, where the natural soils have been extensively modified by excavation for canals and open water areas and filling in of adjacent areas. There is little natural vegetation. This is not a hydric soil.	1.1%
Boca fine sand	This soil type consists of nearly level, poorly drained, sandy soil underlain by limestone. It is in low, broad, wet areas and along grassy, poorly defined drainageways. **This is a hydric soil**.	3.7%
Hallandale fine sand	This soil type consists of nearly level, poorly drained, sandy soil underlain by limestone. It is in broad flats east of the Everglades and west of the Atlantic Coastal Ridge. **This is a hydric soil**.	17.2%
Immokalee fine sand	This soil type consists of nearly level, deep, poorly drained, sandy soil that has a layer well coated with organic matter. It is on broad, low ridges in the eastern part of the survey area. This is not a hydric soil.	4.0%
Immokalee, limestone substratum- Urban land complex	This complex consists of Immokalee, limestone substratum, and Urban land. Depth to the water table depends on the established drainage in the area and the amount of fill material that has been added, but the water table is deeper in most areas than is normal for undrained Immokalee soils. This is not a hydric soil.	6.1%
Margate fine sand	This soil type consists of nearly level, poorly drained, sandy soil that is underlain by limestone. It is on nearly level, low terraces between the Everglades and the low, sandy Atlantic Coastal Ridge. **This is a hydric soil**.	34.6%
Matlacha gravelly fine sand- limestone substratum	This soil type consists of soils that are nearly level, somewhat poorly drained that form as a result of earthmoving operations in areas that are underlain by limestone bedrock. Most natural vegetation has been removed. The existing vegetation consists of South Florida slash pine and various scattered weeds. This is not a hydric soil.	0.7%
Plantation muck	This soil type consists of nearly level, very poorly drained soil that has a muck surface layer over sandy mineral material. **This is a hydric soil.**	3.3%
Pompano fine sand	This soil type consists of nearly level, poorly drained soil. A large part of the acreage is natural vegetation- St. Johns wort and wax myrtle. **This is a hydric soil**.	3.3%
Udorthents	This soil type consists of moderately well drained to excessively drained soils that have been disturbed by cuffing or filling, and areas that are covered by buildings and pavement. The areas are mostly larger than five acres. This is not a hydric soil.	18.4%
Urban land	This map unit consists of areas that are more than 70 percent covered by airports, shopping centers, parking lots, large buildings, streets and sidewalks, and other structures, so that the natural soil is not readily observable. This is not a hydric soil.	0.2%
Water	-	7.4%
	TOTAL	100%

5.0 METHODOLOGY

This Contamination Screening Evaluation (Phase 1) identifies potential contamination sources and rates each site for the risk it poses to project construction. Known sites of petroleum contamination, dry cleaners, and non-petroleum contamination within 500 feet of the project corridor were identified and investigated, as were non-landfill solid waste sites within 1,000 feet of the project corridor.

In addition to sites discovered during field assessments, this report identifies and evaluates known landfills, Comprehensive Environmental Response, Compensation, and Liability Act sites (CERCLA, also known as Superfund), and National Priorities List (NPL) sites within one half-mile of the project corridor. Interviews with on-site staff were conducted when possible. This evaluation includes a review of the following:

- FDOT ETDM Summary Report
- FDOT Environmental Screening Tool (EST) contamination data;
- Florida Department of Environmental Protection (FDEP) OCULUS database and Map Direct contamination data;
- US Environmental Protection Agency (USEPA) Resource Conservation and Recovery Act (RCRA) databases;
- Broward County Contaminated Sites database;
- Field review of project corridor, neighboring properties, and known potential contamination sites;
- Land use map from SFWMD;
- Historic aerial image review.

Recommendations regarding contamination concerns are based on reasonably ascertainable information obtained from the data collection activities identified in this document.

5.1 ETDM COMMENTS

Through the ETDM system, the US Environmental Protection Agency rated contamination as Minimial risk to this project and recommended avoidance and minimization of impacts the extent practicable. SFWMD rated

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contamination risk as Moderate and noted that construction methodologies, such as dewatering, must be designed to minimize movement of contamination plumes. FDEP did not provide a risk rating regarding contamination. This CSER is being developed to identify, avoid, and minimize potential impacts from contamination and subsequent investigations of Medium and High risk sites is anticipated.

5.2 Government Database and Regulatory File Review

Information regarding potentially contaminated sites was obtained through the ETDM system, EST contamination layer, and Florida Geographic Data Library Geographic Information System (GIS) layers as well as the FDEP OCULUS, FDEP Map Direct, Broward County and USEPA RCRA contamination databases. These data sources include information on biomedical waste sites, brownfield location boundaries, dry cleaners, gasoline stations, hazardous waste sites, NPL and Superfund sites, nuclear site locations, State Underground Petroleum Environmental Response Act (SUPER Act) Risk Sources, solid waste facilities, storage tanks, RCRA facilities, and sites where environmental contamination has been documented in the soil or groundwater.

5.3 Historical Aerial Photograph Review

A review of historical aerial photos was performed for the project study area. The University of Florida Digital Collections Website (http://ufdc.ufl.edu/aerials/all/table/2) was used to review aerial photographs from 1949, 1958 and 1984. Aerial photographs from 1995 to today's date were reviewed using the Google Earth historical imagery function. The aerial images were reviewed for potential contamination concerns, including but not limited to mounds, depressions, storage areas or drastic changes in landscaping or geographic features. Prior to 1980s, the region around the project was mostly undeveloped or used as agricultural land and most of the available aerial photography lacks labeled reference points (e.g. major roads) necessary to identify the project corridor. A brief discussion of the review of historic aerial photographs is provided below.

- 1949- The area around the project is predominantly undeveloped or under agricultural use.

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- 1958- Additional roads are visible and expanded agricultural areas are evident.

- 1984- Only the far eastern portion of the Broward County is visible. An extensive network of roads and canals near the coast is visible and there is evident urbanization in the region.

- 1995- The project area is predominantly developed with residential land uses simliar to the present configuration. The current road network is in place, and multiple drainage ponds are visible.

- 1999- Additional residential development is especially evident between US 441 and Powerline Road.

- 2002- Residential and commercial development as filled in much of the remaining undeveloped land, particularly just south of N. Hillsborough Blvd and east of US 441 and near the intersection of Florida's Turnpike and NW 48th Street.

- 2005- Little major changes are evident as the majority of the region has been urbanized. Small infill developments are visible.

5.4 Field Reviews

Field observations to determine the potential for contamination include visual inspections for pipes, storage tanks or other infrastructure, and changes in topography, mounding, or depresssions that may indicate subsurface concerns. Field inspections also note any staining, odor, or distressed vegetation that could indicate a spill or release of contaminants and when available include interviews with local residents and business employees. Photographs and notes about each potentially contaminated site are also collected.

Field reviews of the project area were conducted on October 14 and 18, 2019. Data was collected to determine the location of potentially contaminated sites and the current occupancy and operations.

5.5 Risk Ratings

Based on the compilation of data collection activities described above, each site was assigned a risk rating as outlined in the FDOT *PD&E Manual*. The ratings

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system expresses the degree of concern for a potential contamination impact to the project via cost and schedule. Each site was assigned a contamination risk rating of No, Low, Medium, or High based on the following criteria:

1. No - A review of available information on the property and a review of the design plans indicates there is no potential for contamination to impact the project. It is possible that contaminants had been handled on the property. However, all information (assessment reports, monitoring well abandonments, results of recent soil and groundwater sampling, etc.) indicate that contamination impacts are not expected.

2. Low - A review of available information indicates that former or current activities on the property have an ongoing contamination concern, has a hazardous waste generator identification (ID) number, or handles hazardous materials in some capacity. However, based on all available information and current design plans, it is not likely that there would be any contamination impacts related to this project.

3. Medium – After a review of all available information, the potential contamination has been identified. This may include known soil and/or groundwater contamination that may not require remediation, is currently being remediated, or that is currently in the monitoring only phase. The complete status of remediation is important to determine what FDOT must do if the property were to be acquired. If there is insufficient reliable information (such as regulatory records or site historical documents) to make a determination as to the potential for contamination, and there is reasonable suspicion that contamination may exist, the property should be rated at least as a "Medium".

   A recommendation should be made for each property in this category based on whether it would be within the proposed project, what additional assessment or remedial actions might be required if the property is acquired, and the possible requirements for additional actions if there is a need to avoid the property.

   This ranking is the lowest possible rating a currently operating petroleum fueling, or storage facility can receive in an assessment document, based

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on its distance to the ROW, contamination type, need for dewatering in the area, etc.

4. High - After a review of all available information and current conceptual or design plans, there is a reasonable potential for contamination impacts during construction. Once the Design Alternative has been selected, sites rated with high contamination potential require further assessment to confirm and delineate potential contaminants and to determine if remediation or special construction provisions will be needed during construction. The recommendation for this rating should include a listing of the parameters of concern and media to be assessed, and if known, what construction activities will occur within or adjacent to the contaminated media. Properties used historically as gasoline stations, and which have not been evaluated or assessed, would likely receive this rating.

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6.0 POTENTIAL PROJECT IMPACTS

6.1 POTENTIALLY CONTAMINATED SITES

After screening for sites within appropriate buffers, a total of 19 sites of potential contamination risk were identified. Those include zero High Risk, 7 Medium Risk, and 12 Low Risk sites (**Table 6.1**). None of these potentially contaminated sites are proposed for ROW acquisition. All Medium Risk sites will be considered in the Pond Siting Report. Information on each site is summarized in **Table 6.2** and locations are shown in **Figure 6.1** and **6.2**. Individual site descriptions, including field observations and a summary of available documentation, are provided in the text below. **Appendix A** contains regulatory documents and information associated with each site and **Appendix B** contains photographs related to each Medium and High risk site.

Table 6.1— Contamination Risk Rating Summary for Preferred Alternative

Risk Rating	Number of Sites	Sites Proposed for ROW Acquisition Under Preferred Alterative
Low	12	0
Medium	7	0
High	0	0

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Table 6.2— Sites of Potential Contamination Risk

Site #	Facility Name	Address/Location	Facility ID (FDEP/RCRA)	Databases	Concern; Land Use Type	Approximate Distance from Site to Preferred Alternative	Risk Rating
1	Lou Bachrodt Chevrolet/Mazda	5500 N Hwy 7	9700091, FLR000149112	STCM, CHAZ	Storage Tank; Commercial and Services	Adjacent	Low
2	Capella Farms Inc	5730 N SR 7	8625849	FDEP STCM	Historic record of Underground Storage Tank	Within FDOT ROW	Medium
3	Residence Inn by Marriott	5730 N State Road 7	9817162	STCM	Storage Tank; Multiple Dwelling Units- High Rise	Adjacent	Low
4	Club Caribe Associates	5510 NW 61st Street #101	9400067	FDEP STCM, PCTS	Diesel spill and Storage Tanks; Multiple Dwelling Units- High Rise	Adjacent	Low
5	BOCA #7838	6330 N SR 7	9807767	STCM, PCTS	Retail Gas Station; Commercial and Services	Adjacent	Medium
6	Hampton Inn and Suites	5740 N SR 7, Coconut Creek	9814296	STCM	Diesel Storage Tank; Multiple Dwelling Units- High Rise	Adjacent	Low

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Site #	Facility Name	Address/Location	Facility ID (FDEP/RCRA)	Databases	Concern; Land Use Type	Approximate Distance from Site to Preferred Alternative	Risk Rating
7	Marathon – Winston Park	5425 Lyons Road	9801357	FDEP STCM	Retail Gas Station; Commercial and Services	Adjacent	Medium
8	Coconut Creek – Shell Station	6135 Lyons Road	9805503	FDEP STCM, PCTS	Retail Gas Station; Fixed Single Family Units (Medium Density Urban)	Adjacent	Medium
9	McFarlane Trucking 03-2I-0279	Deerfield Toll Plaza EB on Sawgrass	9807332	FDEP STCM, PCTS	Diesel Fuel Spill	Within FDOT ROW	Low
10	Douglas Fertilizer/Liquid AG Systems	Sawgrass Expressway	ERIC 10265	ERIC	Liquid Fertilizer Spill	Within FDOT ROW	Low
11	Chemical Waste Mgt Pompano	2700 NW 48th St	77155917, ERIC_8689	DEP Cleanup	Waste Transfer Station; Solid Waste Disposal	Adjacent	Low
12	Central Sanitary Landfill and Recycling Center	1801 SW 45 Way	77155916, ERIC 8682	DEP Cleanup	Mapped by FDEP Map Direct; Upland Mixed Coniferous/ Hardwood	Adjacent	Low

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Site #	Facility Name	Address/Location	Facility ID (FDEP/RCRA)	Databases	Concern; Land Use Type	Approximate Distance from Site to Preferred Alternative	Risk Rating
13	Monarch Hill	2700 Wiles Road	8622531 / 55093	FDEP STCM, Solid Waste, Institutional Controls Registry	Landfill, Leachate in groundwater; Solid Waste Disposal	Adjacent	Medium
14	Med-Care Pharmacy	1052 S. Powerline Road	9100756	FDEP STCM	Storage Tanks	200 ft	Low
15	Shell – First Coast Energy #1836	1011 S Powerline Road	9800891	FDEP STCM	Retail Gas Station; Commercial and Services	Adjacent	Medium
16	Coconut Creek Mitsubishi	4950 N State Road 7	FLR000050419	CHAZ Facilities	Storage Tanks, Hazardous Waste; Commercial and Services	Adjacent	Medium
17	Publix Super Market #637	5365 Lyons Road	9809424, FLR000245951	STCM, CHAZ Facilities	Storage Tanks; Commercial and Services	Adjacent	Low
18	Five Point Cleaners	5379 Lyons Road	9806977	STCM	Storage Tanks; Commercial and Services	Adjacent	Low
19	Adios Golf Club	7740 NW 39th Avenue	8838227	STCM	Petroleum, SRCO; Golf Courses	1,000+ feet	Low

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Figure 6.1 — Potentially Contaminated Sites in Western Project Area

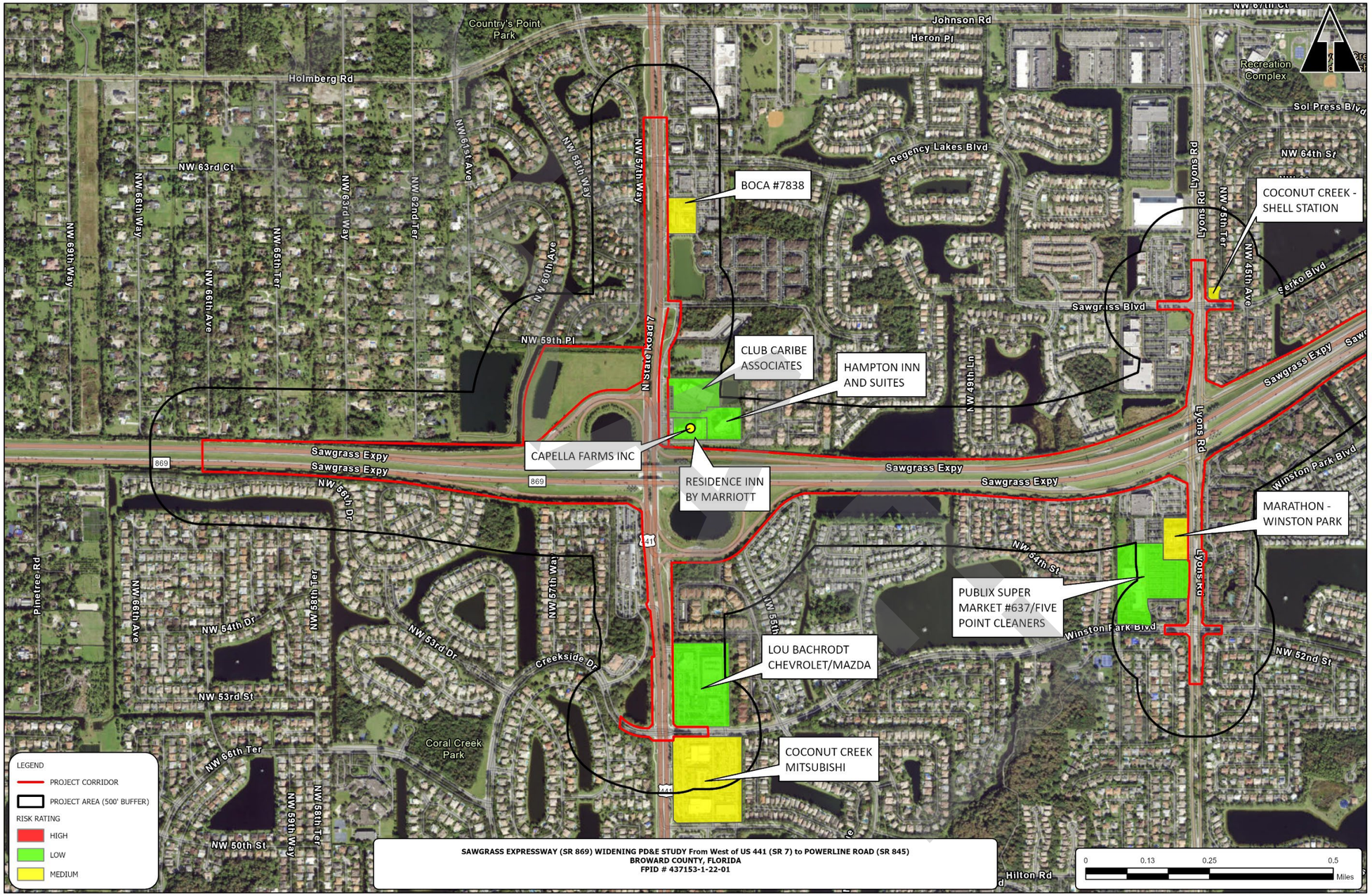
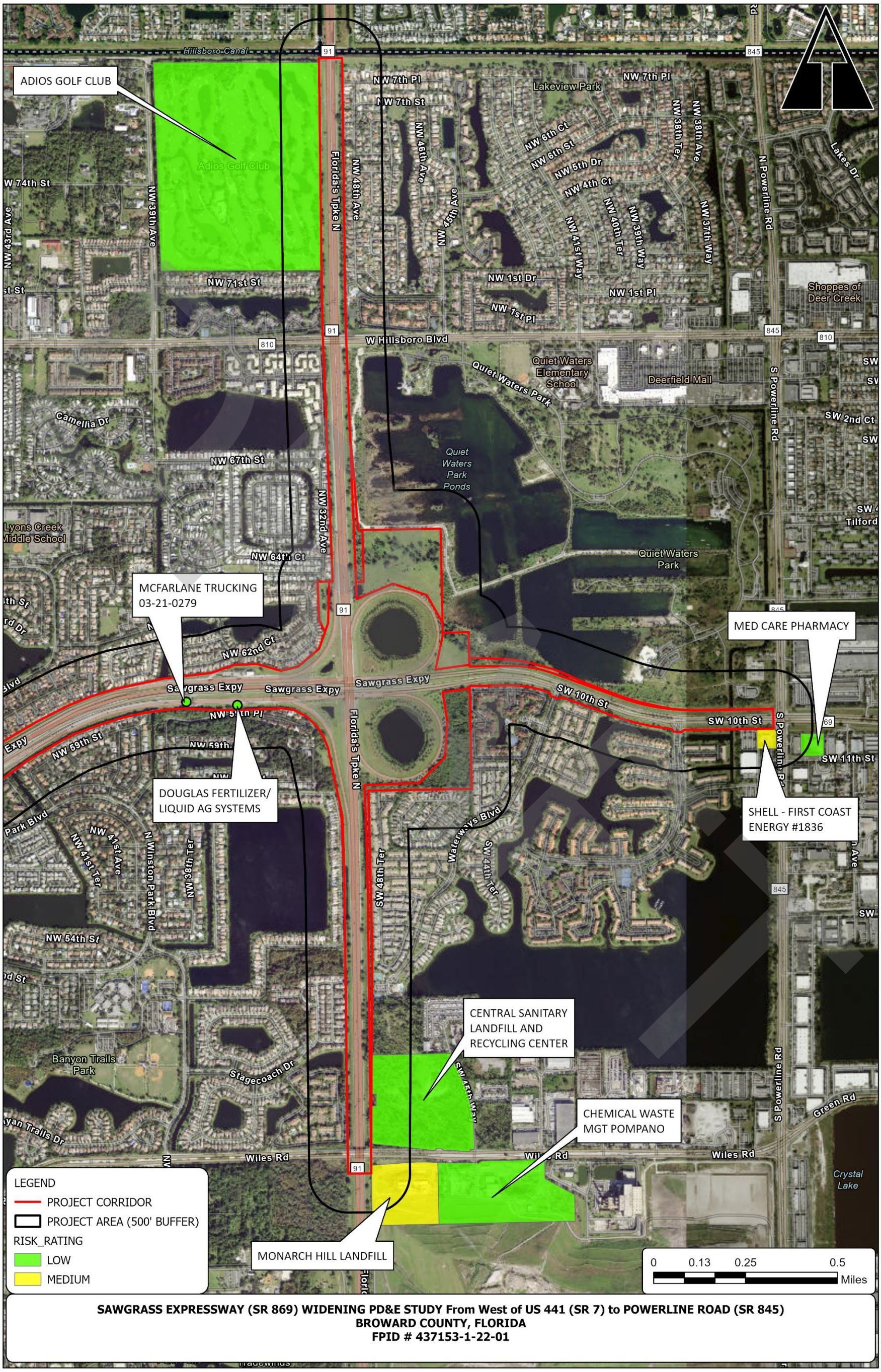


Figure 6.2 — Potentially Contaminated Sites in Eastern Project Area



6.2 Individual Site Summaries

6.2.1 Site 1 Lou Bachrodt Chevrolet/Mazda

5500 N HWY 7
Facility ID: 9700091; FLR000149112
Risk Rating: Low

This site is a car dealership located in the northeast quadrant of the intersection of US 441 and Winston Park Boulevard. It was reported in the FDEP Storage Tank Contamination Monitoring database and has a Facility ID 9700091 and in the CHAZ database with Handler ID FLR000149112. Documents on file indicate the presence of one 2,000 gallon diesel storage tank and one 2,200-gallon gasoline storage tank by October 1996. A Storage Tank Facility Annual Compliance Site Inspection Report dated October 10, 2013 found the facility to be in compliance. According to a Hazardous Material Management Facility Inspection Report dated April 9, 2023, this facility was issued a violation due to the facility failing to submit hazardous-waste status. There is no documented history of spills or release of any contaminants. Because this site has fuel storage tanks but no history of contaminated soil or groundwater, it is assigned a risk rating of Low.

6.2.2 Site 2 Capella Farms Inc

5730 N SR 7
Facility ID: 8625849
Risk Rating: Low

This site is located east of US 441, immediately south of Sawgrass Expressway. This area contains ramps and a stormwater pond for Sawgrass Expressway as well as a complex of condominiums. The only document on file with FDEP is a Stationary Tank Registration/Notification Form dated 11-14-1984. It reports the presence of two 2,000-gallon and one 3,000-gallon underground storage tank used for unleaded fuel. That form includes a map (**Appendix A**) showing the location of the three tanks in the central part of the property, not adjacent to US 441. A hand-written note on that form states the site was closed February 1996. Although it has been redeveloped, because there is a record of underground storage tanks on site but no official documentation of removal, this site is assigned a risk rating of Medium.

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6.2.3 Site 3 Residence Inn by Marriott

5730 N State Road 7
Facility ID: 9817162
Risk Rating: Low

This site is a hotel in the northeastern quadrant of the intersection of Sawgrass Expressway and US 441. It was reported in the Storage Tank Contamination Monitoring database. This parcel is also associated with site 2, Capella Farms Inc. Records indicate the presence of five underground storage tanks in 1984 that were recorded as part of Capella Farms, Inc. According to the FDEP Storage Tank Facility Routine Compliance Site Inspection Report dated 9/13/23, this site received a minor out of compliance citation due to exterior coatings not properly maintained to prevent corrosion. No signs of spills or leakage were observed Because there are storage tanks but no record of soil or groundwater contamination, this site is assigned a risk rating of Low.

6.2.4 Site 4 Club Caribe Associates

5510 NW 61st St #101
Facility ID: 9400067
Risk Rating: Low

This site is a condominium development located in the northeastern quadrant of the intersection of Sawgrass Expressway and US 441. Construction on condominiums appears to have started around 1990. Portions of this site were previously under cultivation. Documents from FDEP indicate that in 1989 multiple storage tanks were removed and no signs of contamination were apparent. A discharge of diesel fuel was reported on 12-7-1992. FDEP indicated that the site was assigned No Further Cleanup status by January 19, 1994. A Storage Tank Registration Form from February 1, 1993 indicates the presence of three 1,000-gallon storage tanks at this site. Because of the No Further Action Status, this site is assigned a risk rating of Low.

6.2.5 Site 5 BOCA #7838

6330 N SR 7
Facility ID: 9807767
Risk Rating: Medium

This site is a retail gas station located approximately 2,200 feet north of Sawgrass Expressway and immediately east of US 441. The property contains a covered fuel island, a convenience store and car wash. The earliest document on file is a 2005 Storage Tank Facility Registration Form noting the new registration of three

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underground storage tanks (20,000 gallon, 12,000 gallon, and 10,000 gallon). A Storage Tank System Leak Autopsy Report Form from September 2007 reports that gasoline was discharged into groundwater. A Discharge Report Form was completed in 2007 and the site received a Site Rehabilitation Completion Order on April 1, 2010. According to the most recent Storage Tank Facility Routine Compliance Site Inspection Report dated December 12, 2023, this facility received multiple minor violations that put this facility out of compliance. Because this site is an operating retail fuel facility with a history of discharge and a Site Rehabilitation Completion Order, this site is assigned a risk rating of Medium.

6.2.6 Site 6 Hampton Inn and Suites

5740 N State Road 7
Facility ID: 9814296
Risk Rating: Low

This site is a hotel in the northeastern quadrant of the intersection of Sawgrass Expressway and US 441. It was reported in the Storage Tank Contamination Monitoring database. A Storage Tank Facility Annual Compliance Site Inspection Report notes the presence of one 1,355-gallon diesel aboveground storage tank in December 2014. The tank was installed without an Install Permit and the facility was also in violation for lack of financial responsibility. There is no documented discharge or any contaminants. According to a Storage Tank Facility Routine Compliance Site Inspection Report dated February 21, 2023, this facility received major violations due to the storage tank system not being visually inspected once a month, an unrepaired component or piping which has not caused a discharge or release, and no financial responsibility instrument or expired instrument for over 180 days. No signs of spills or leakage were observed. This facility received a Return to Compliance letter on December 18, 2023. Because there are storage tanks but no record of soil or groundwater contamination, this site is assigned a risk rating of Low.

6.2.7 Site 7 Marathon – Winston Park

5425 Lyons Rd, Coconut Creek
Facility ID: 9801357
Risk Rating: Medium

This site is an operating gas station located adjacent to the project west of Lyons Road, south of Sawgrass Expressway. Historic aerial images show it was constructed between 1995 and February 1999. It is part of a large commercial center that includes a Publix supermarket. A Storage Tank Registration form from

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3-11-1999 lists three 10,000-gallon, double-walled, underground storage tanks used for unleaded gasoline. Minor violations were reported in an inspection report dated 7-5-2019 that confirmed the presence of three underground storage tanks. An associated warning notice was issued by Broward County and is the most recent document on file. A non-compliance letter was issued on February 15, 2022, for one violation regarding repairs. Because this site is an operating gas station, it is assigned a risk rating of Medium.

6.2.8 Site 8 Coconut Creek – Shell Station

6135 Lyons Road
Facility ID: 9805503
Risk Rating: Medium

This site is an operating gas station located approximately 1,000 feet north of the Sawgrass Expressway and Lyons Road Interchange. This retail fuel-station has three registered Underground Storage Tanks (USTs) which were installed in early 2003; Two 15,000-gallon gasoline and one 12,000-gallon diesel tank. Water apparently leaked into the primary tank, as noted on an Incident Notification Form (INF) dated 3-5-2014, no free product was released according to this form. A separate INF was filed later that year on 9-24-2014 when the diesel spill bucket failed a hydrostatic test. Again, no free product release was reported. A Discharge Reporting Form (DRF) dated 11-12-14 was later filed after free product appeared to be leaking from the spill bucket into the surrounding pea gravel. Impacted pea gravel was excavated and placed into a drum for disposal and the three spill buckets were removed and disposed of later that month. Analytical results from the soil samples verified that impacted gravel was removed and that no detectable levels of hydrocarbons remained in the area. Final sample results were provided to the Broward County Pollution Prevention Division and on 7-15-2015, the County accepted the report and specified that no additional assessment activities were required at that time. An inspection report from November 2015 documents that no further issues were identified. An attached Memorandum dated March 12, 2020, noted contamination from a discharge on November 6, 2014, was addressed via source removal. The status has been changed from Cleanup to No Cleanup Required (NREQ). Because this facility is an operating gas station and no additional assessment activities were required following a discharge, it is assigned a risk rating of Medium.

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6.2.9 SITE 9 MCFARLANE TRUCKING 03-2L-0279

Deerfield Toll Plaza Eastbound on Sawgrass
Facility ID: 9807332
Risk Rating: Low

This is the location of a diesel spill within FDOT right-of-way on eastbound Sawgrass Expressway, just north of NW 40th Avenue. Documents from FDEP indicate that a diesel spill occurred on 9-26-2003 and the site was referred to Broward County. The spill occurred immediately east the Deerfield Toll Plaza on eastbound lanes. This site is listed in the FDEP Storage Tank Contamination Monitoring Database as well as the Pollution Contamination Monitoring Discharges Database. Maps (**Appendix A**) show the site of the spill adjacent to Sawgrass Expressway travel lanes. According to an FDEP Memorandum dated January 24, 2011, the contamination from the referenced discharge was addressed via source removal and the facility received a status of No Cleanup Required (NREQ). Because the contamination was addressed via source removal and no additional cleanup is required, this site is assigned a risk rating of Low.

6.2.10 SITE 10 DOUGLAS FERTILIZER/LIQUID AG SYSTEMS

Located within Sawgrass Expressway ROW
Facility ID: ERIC_10265
Risk Rating Low

This site is located within FDOT ROW on northbound Sawgrass Expressway, approximately 400 feet west of the ramp to Florida's Turnpike southbound. In 2005 a liquid fertilizer truck experienced a severed line and the driver pulled off the road. Approximately 1200 gallons of nitrogen-based liquid fertilizer was released. Source removal was conducted followed by groundwater sampling. Soil and groundwater concentrations were found to be below applicable target levels, and a Site Rehabilitation Completion Order was issued December 27, 2010. Because a Site Rehabilitation Completion Order was issued, this site is assigned a risk rating of Low.

6.2.11 SITE 11 CHEMICAL WASTE MANAGEMENT POMPANO

2700 NW 48th Street
FDEP Cleanup 77595814, ERIC_8689
Risk Rating: Low

This site is located in the southeast quadrant of the intersection of Florida's Turnpike and Wiles Road. This sits is on the property of a major landfill that covers

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approximately 500 acres. The earliest document on-file is from 1980 and includes a permit to construct a solid waste transfer station on approximately one acre. That site would receive hazardous waste and transfer it to a location in Emelle, Alabama. Documents indicate a total storage capacity of 160 containers with a provision for storing an additional 20 drums in an emergency. There is no documentation or indication of any historic release of contaminants at this site, and no ROW would be acquired from this site. For these reasons, but because the site handles and stores waste, a risk rating of Low is assigned to this site.

6.2.12 Site 12 Central Sanitary Landfill and Recycling Center

1801 SW 45 Way
DEP Cleanup Sites 77155916, ERIC 8682
Risk Rating: Low

This site is mapped by FDEP Map Direct in the northeast quadrant of the intersection of Florida's Turnpike and Wiles Road. The address is reported in Map Direct as 3140 NW 48th Street, but this is apparently erroneous and does not occur in the vicinity of the project. The Property Appraiser reports the address of the mapped location as 1801 SW 45 Way, Deerfield Beach, FL. The property is owned by RMT-SDE-3-LLC and was last sold in 2021.

The parcel is currently forested and crisscrossed with vehicle tracks. An outdoor storage business and a steel fabrication business are located northeast of the property, at the north end of SW 45th Way. The Waterways residential neighborhood borders this property to the north. Historic imagery from 1995 shows the central portion of the property is cleared, but most of it has revegetated by 2002 and vehicle tracks are visible on this and adjoining properties. Dirt piles are visible in several years after 2011 but no pits are apparent.

According to CERCLA Site Evaluation Preliminary Assessments dated January 1, 2011, this site is located at the current Monarch Hill Landfill. Improvements are proposed to the overpass at the intersection of Florida's Turnpike and Wiles Road, but right-of-way would be acquired from this site. For these reasons, and because there is no documentation of contamination at this site, it is assigned a risk rating of Low.

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6.2.13 Site 13 Monarch Hill

2700 Wiles Road
Facility ID: 8622531
Risk Rating: Medium

This site is an operating landfill located in the southeastern quadrant of the intersection of Wiles Road and Florida's Turnpike. The facility covers approximately 500 acres, does not accept hazardous waste and contains two above ground storage tanks. There is an associated waste transfer station and waste-to-energy facility to the east. The landfill is protected by a double composite liner system that include a geosynthetic clay line and a polyethylene membrane to isolate waste and wastewater. Groundwater is monitored through at least 70 wells on the site. On 7-2-2019 site personnel noticed an accidental release of leachate. The location of the release is approximately 2,072 feet from the east property boundary and 987 feet from the north property boundary. Some leachate entered a storm water retention area 340 feet to the east. The affected ground was estimated to be approximately 6,000 square feet and maximum volume of leachate released was estimated to be 3,500 gallons. Future soil sampling is anticipated for this site. A Return to Compliance letter was issued on 3/9/2021 regarding the Department's Storage Tank rules and regulations. Because this site is an active landfill that contains waste and because of the recent release of leachate and lack of an official completion or closure order, this site is assigned a risk rating of Medium.

6.2.14 Site 14 Med-Care Pharmacy Inc.

1052 S. Powerline Road
Facility ID: 9100756
Risk Rating: Low

This site is located adjacent to the project, in the southeast quadrant of the intersection of S.W. 10th Street and Powerline Road. FDEP documents include a Storage Tank Notification form from 1989 reporting the presence of one 550-gallon underground storage tank and a storage tank registration form from 2003 reporting a 1,000-gallong storage tank. This area was developed prior to 1995. There is no record of release of contaminants and the site has been developed since at least 1995, but because there are storage tanks present, this site is assigned a risk rating of Low.

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6.2.15 Site 15 Shell-First Coast Energy #1836

1011 S Powerline Road
Facility ID: 9800891
Risk Rating: Medium

This site is an operating gas station located in the southwestern quadrant of the intersection of S.W. 10th Street and S. Powerline Road, adjacent to the project. This retail fuel station contains five USTs for gasoline and diesel which were installed in October of 1998; four 10,000-gallon tanks and one 8,000-gallon tank. Groundwater flow in this area appears to generally be towards the north. A DRF dated 3/10/15 was completed when gasoline was observed leaking into surrounding soil from fill buckets during a closure assessment conducted while replacing fill buckets. Leaks were speculated to have originated from punctures to two of the USTs. Gravel was excavated down to approximately 3-feet below land surface in the area around each USTs fill and vapor bucket and were submitted for analysis. Results revealed that groundwater samples were above the Groundwater Cleanup Target Levels (GCTLs) for dissolved-phase hydrocarbon concentrations, but below Natural Attenuation Default Concentrations (NADCs), at two of the twelve Monitoring Wells located on-site. The remaining samples collected demonstrated dissolved phase hydrocarbons concentrations below GCTLs, and thus a Natural Attenuation Monitoring (NAM) Plan was requested by the facility on November 12, 2015. The NAM Plan was approved on February 25, 2016 by the Broward County Pollution Prevention Division (Division) on behalf of the Florida Department of Environmental Protection. In September 2017 a Site Rehabilitation and Completion Report and No Further Action Proposal were accepted by Broward County on behalf of FDEP. This site resolved all violations concerning ongoing cleanup efforts and has been advised to resume state-funded cleanup activities. Because this site is an operating gas station, it is assigned a risk rating of Medium.

6.2.16 Site 16 Coconut Creek Mitsubishi

4950 N State Road 7
Facility ID: FLR000050419
Risk Rating: Medium

This site is an active automobile dealership located at the southeast corner of the intersection between Winston Park Boulevard and State Road 7. This dealership registered a small quantity generator on November 20, 1998. According to a Hazardous Waste Inspection Report dated January 14, 2010, this facility's waste stream consists of a parts washer, paint waste, used oil stored in a

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275 gallon tank in secondary containment, used oil filters, and used anti-freeze. This facility received minor compliance violations due to emergency information not being posted next to the telephone and employees' training records not being available at the time of the inspection. For these reasons, this facility is assigned a risk rating of Medium.

6.2.17 Site 17 Publix Super Market #637

5365 Lyons Road
Facility ID: 9809424, FLR000245951
Risk Rating: Low

This site is an active Publix Super Market located south of the intersection between Lyons Road and Sawgrass Expressway. According to a Storage Tank Registration Form dated July 13, 1998, this facility maintains one 1,000-gallon aboveground storage tank for storing an unspecified substance. This storage tank was subsequently closed on August 2, 2021. According to a hazardous waste notification letter, this facility was assigned the status of hazardous waste pharmaceutical – healthcare facility with a very small quantity generator. Because this site has no previous discharges and all storage tanks have been closed, this site is assigned a risk rating of Low.

6.2.18 Site 18 Five Point Cleaners

5379 Lyons Road
Facility ID: 9806977
Risk Rating: Low

This site is an active dry cleaning facility located south of the intersection between Lyons Road and Sawgrass Expressway within the same plaza as the Publix Super Market. There is no additional information available for this site in the FDEP Nexus Information Portal. Because there is no history of discharges at this site, it is assigned a risk rating of Low.

6.2.19 Site 19 Adios Golf Club

7740 NW 39TH Avenue
Facility ID: 8838227
Risk Rating: Low

This site is a Golf Course and records from FDEP show that two storage tanks were installed in 1983 and petroleum product was discharged in 1991. The site was targeted for cleanup and monitoring wells were installed and later abandoned. A Site Rehabilitation and Completion Order was issued in July 2004. The storage tanks were located by the club house, which is over 1,000 west of

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the project. Because a Site Rehabilitation and Completion Order was issued and the tanks were distant from the project, this site is assigned a risk rating of Low.

6.3 Additional Considerations

The project contains multiple bridges and overpasses that could potentially contain asbestos, lead-based paint, or metal-based coatings. A series of 2017 survey reports provide the results of analysis of several bridges in the project area. Those bridges include the Wiles Road bridge over Florida's Turnpike, the Sawgrass Expressway bridges over US 441, and the Sawgrass Expressway bridges over Lyons Road. For each of these bridges, the 2017 reports noted that no asbestos was detected, but lead and chromium were present. Because lead and chromium were detected, a risk rating of Medium is assigned to all bridges and overpasses. Additional surveys are recommended prior to construction to determine the presence and extent of asbestos, lead-based paint, and metal-based coatings.

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7.0 CONCLUSION AND RECOMMENDATIONS

A total of 19 sites of potential contamination risk were identified, including zero High Risk, 7 Medium Risk, and 12 Low Risk sites. None of these potentially contaminated sites are proposed for ROW acquisition. Level II Contamination Assessment investigations will be recommended during the design phase based on activities anticipated to construct the project, such as dewatering or subsurface work (e.g., pole foundations, drainage features, soil excavation, etc.) in proximity to any sites rated High or Medium Risk. A dewatering plan will be necessary to avoid potential exacerbation of any contamination plumes.

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APPENDIX A: Documents and Information Associated with Each Site

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Site 1 Lou Bachrodt Chevrolet/Mazda
5500 N HWY 7
Facility ID: 9700091
Risk Rating: Low

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Florida Department of Environmental Regulation
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DER Form # [illegible]
Form Title: Storage Tank Registration Form
Effective Date: December 10, 1990
DER Application No. _____ (Filled in by DER)

Storage Tank Registration Form

Please Print or Type - Review Instructions Before Completing Form

D

1. DER Facility ID Number: 06/9700091 2. Facility Type: _____
3. New Registration ☒ New Owner Data ☐ Facility Revision ☐ Tank(s) Revision ☐
4. County and Code of tank(s) location: _____ / _____

5. Facility Name: LOU BACHRODT CHEVROLET
Tank(s) Address: 5500 N SR.7
City/State/Zip: COCONUT CREEK FL. 33073
Contact Person: JIM PETERLIN Telephone: (954) 247-3000
6. Financial Responsibility Type: _____

7a. Tank(s) Owner: LOU BACHRODT CHEVROLET 13188
Owner Mailing Address: 5500 N. SR.7
City/State/Zip: COCONUT CREEK FL. 33073
Contact Person: TOM BOSCHE Telephone: (954) 247-3000

7b. New Owner Signature/Change Date: _____ / _____ / _____

RECEIVED
DEPARTMENT OF
ENVIRONMENTAL PROTECTION
97 JAN 21 PM 3:34
BUREAU OF WASTE CLEANUP
DOCUMENT MANAGEMENT
CENTER

8. Location (optional) Latitude: ___°___'___" Longitude: ___°___'___" Section ___ Township ___ Range ___

Complete One Line For Each Tank At This Facility (Use Codes - See Instructions)

Complete 9 - 16 for tanks in use; 9 - 19 for tanks out of use

9	10	11	12	13	14	15	16	17	18	19
1	2000	B	10-10-96	A	ACRKMA	BMAIK	F			

20. _____ DPR# _____
Certified Contractor* Department of Professional Regulation License Number*

*For new tank installation or tank removal

To the best of my knowledge and belief all information submitted on this form is true, accurate and complete.

JOSE A. MARTINEZ NRS II _____ 11-27-96
Print name & title of owner or authorized person Signature Date

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DEPARTMENT OF ENVIRONMENTAL REGULATION
STATE OF FLORIDA

Florida Department of Environmental Regulation

Twin Towers Office Bldg. ● 2600 Blair Stone Road ● Tallahassee, Florida 32399-2400

DER Form # 17-761.900(2)
Form Title Storage Tank Registration Form
Effective Date December 10, 1990
DER Application No. _____ (Filled in by DER)

DATA ENTERED
JAN 24 1997

Storage Tank Registration Form

Please Print or Type - Review Instructions Before Completing Form

1. DER Facility ID Number: 06/9700091 2. Facility Type: AUTOMOBILE SALE & SERVICE C
3. New Registration ☑ New Owner Data ☐ Facility Revision ☐ Tank(s) Revision ☐
4. County and Code of tank(s) location: Broward / 06

5. Facility Name: LOU BACHRODT CHEVROLET
Tank(s) Address: 5500 N. STATE ROAD #7
City/State/Zip: COCONUT CREEK, FLORIDA 33073
Contact Person: _____ Telephone: (305) 971-3000
6. Financial Responsibility Type: _____

7a. Tank(s) Owner: LOU BACHRODT CHEVROLET 13188
Owner Mailing Address: 1801 W. ATLANTIC BLVD.
City/State/Zip: POMPANO BEACH, FLORIDA 33069
Contact Person: LOUIS C BACHRODT III Telephone: (305) 971-3000

7b. New Owner Signature/Change Date: _____ / ___/___/___

8. Location (optional) Latitude: 26 °17 '663" Longitude: 080 °12 '040" Section____ Township____ Range____

Complete One Line For Each Tank At This Facility (Use Codes - See Instructions)

Complete 9 - 16 for tanks in use; 9 - 19 for tanks out of use

9	10	11	12	13	14	15	16	17	18	19
1	2,200	B	10/10/96	A	CARKMN	BMAIK	F	U		

20. Petropac
Certified Contractor*

DPR# _____
Department of Professional Regulation License Number*

*For new tank installation or tank removal

To the best of my knowledge and belief all information submitted on this form is true, accurate and complete.

J.R. Wynk _____ 12.2.96
Print name & title of owner or authorized person Signature Date

Northwest District 160 Governmental Center Pensacola, Florida 32501-5794 904-436-8300
Northeast District 7825 Baymeadows Way, Suite B 200 Jacksonville, Florida 32207 904-798-4200
Central District 3319 Maguire Blvd. Suite 232 Orlando, Florida 32803-3767 407-894-7555
Southwest District 4520 Oak Fair Blvd. Tampa, Florida 33610-7347 813-623-5561
South District 2269 Bay St. Fort Myers, Florida 33901-2896 813-332-6975
Southeast District 1900 S. Congress Ave., Suite A, West Palm Beach, Florida 33406 407-433-2650

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Environmental Protection and Growth Management Department
POLLUTION PREVENTION, REMEDIATION AND AIR QUALITY DIVISION
One North University Drive, Suite 203, Plantation, Florida 33324
954-519-1260 • FAX 954-765-4804

August 26, 2010

Frank Angilella
Lou Bachrodt Chevrolet
5500 N HWY 7
Coconut Creek, Fl 33073

Chapter(s) 62-761/762, F.A.C., Non-Compliance Letter
Broward County – Regulated Storage Tanks
DEP Facility # ***9700091***

Dear ***Owner***:

The ***Pollution Prevention, Remediation and Air Quality Division*** is contracted with the Florida Department of Environmental Protection (Department) to conduct the Storage Tank System Compliance Verification Program for facilities located in ***Broward*** County. On August 26, 2010, a storage tank inspection was conducted at the above referenced facility. A copy of the inspection report is enclosed for your review. Based on the inspection, you may not be operating in compliance with the requirements of Chapter(s) 62-761/762, Florida Administrative Code (F.A.C.).

(see attached inspection)

Any noncompliance items must be corrected immediately. Please provide a written response to this office within 30 days of receipt of this letter and provide documentation to show that the issues addressed in the enclosed report and in this letter have been resolved. Please include the facility identification number on all correspondence. Your failure to timely respond may result in further enforcement action.

Please be aware that violations of Chapter(s) 62-761/762, F.A.C., may subject you to penalties of up to $10,000.00 per day per violation, in addition to investigative costs. These penalties and costs may be imposed in accordance with Chapters 376 and 403, Florida Statutes.

If you have any questions please contact *Steve Singer* at *(954)818-7545 and/or 1 N University Drive, Plantation, FL 33324 and/or fax to (954) 765-4804 and/or email* *ssinger@broward.org* .

Sincerely,

Steve Singer
Natural Resource Specialist II

Enclosure

DRAFT

Florida Department of Environmental Protection

Twin Towers Office Bldg. 2600 Blair Stone Road. Tallahassee, Florida 32399-2400

Division of Waste Management
Bureau of Petroleum Storage Systems

Storage Tank Facility Annual Compliance Site Inspection Report

Facility Information:

Facility ID: 9700091 County: BROWARD Inspection Date: 08/26/2010

Facility Type: C -Fuel user/Non-retail

Facility Name: LOU BACHRODT CHEVROLET

5500 N HWY 7

COCONUT CREEK, FL 33073

Of Inspected ASTs: 2

USTs: 0

Mineral Acid Tanks: 0

Latitude: 26° 17' 36.9846"

Longitude: 80° 12' 3.0124"

LL Method: AGPS

Inspection Result:

Result : Major Out of Compliance

Description: Facility is Major Out of Compliance.

Financial Responsibility

Financial Responsibility: INSURANCE

Insurance Carrier: ZURICH-AMERICAN

Effective Date: 05/13/2010 Expiration Date: 05/13/2011

Signatures:

TKBWNR - BROWARD COUNTY ENVIRONMENTAL PROTECTION DEPT

Storage Tank Program Office

(954) 519-1260

Storage Tank Program Office Phone Number

Steve D. Singer

INSPECTOR NAME



INSPECTOR SIGNATURE

Bruce Warzoha

REPRESENTATIVE NAME



REPRESENTATIVE SIGNATURE

New Violations

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Facility ID: 9700091

Type:	Violation
Significance Name:	Minor
Rule:	62-762.711(2)(h), 62-762.711(2)(g), 62-762.711(2)(f), 62-762.711(2)(e), 62-762.711(2)(d), 62-762.711(2)(c), 62-762.711(2)(b), 62-762.711(2)(a)
Violation Text:	Records requiring 2 year documentation period not kept by facility.
Explanation:	Required monthly visual inspection logbook incomplete.
Corrective Action:	To provide corrected logbooks within 30 days.

Type:	Violation
Significance Name:	SNC-B
Rule:	62-762.601(1)(d)
Violation Text:	Release detection not performed at least once a month.
Explanation:	Annular space monitoring not bein done for the four A/G, D/W tanks.
Corrective Action:	Must monitor annular space for all four tanks every month and log in this activity.

Type:	Violation
Significance Name:	Minor
Rule:	62-762.701(1)(a)1.d., 62-762.701(1)(a)1.c., 62-762.701(1)(a)1.b., 62-762.701(1)(a)1.a.
Violation Text:	Not repaired component which has or could cause a discharge or release.
Explanation:	Have some rust spots on top of gasoline tank.
Corrective Action:	To repair rust areas within 30 days.

Type:	Violation
Significance Name:	Minor
Rule:	62-762.601(1)(a)2.
Violation Text:	Not installed, calibrated, operated, and maintained per manufacturer's specifications.
Explanation:	Pneumercator annular space sensor for A/G gas tank is not working.
Corrective Action:	To repair or repalce said sensor system within 30 days.

Type:	Violation
Significance Name:	Minor
Rule:	62-762.601(1)(c)
Violation Text:	Release detection method not provided upon installation.
Explanation:	Two 980 gallon oil tanks and 2000 gallon generator tank have no annular space sensor or facility does not know where sensor is.
Corrective Action:	Have 30 days to provide annuklar space monitoring for the three tanks.

Site Visit Comments

08/26/2010

New site sketch provided with added tanks. Camera battery dead so will add tank photos when re-inspection is done.

DRAFT

Facility ID: 9700091

Inspection Comments

08/26/2010

1) The A/G, D/W gas tank has a Pneumercator electronic annular space sensor which was not working. Needs to be reapired or replaced within 30 days.
2) Gas tank had some rust issues on top of tank which need to be repaired within 30 days.
3) Gas tank has a spill bucket for fill area. Generator tank does not have a spill bucket which is reuired. Have 30 days to install spill bucket for fill area.
4) The A/G, D/W diesel generator tank looked in good condition though annular space is not being monitored and facility did not know how to monitor it. Generator on top was locked and could not open it to see if there was any electronic annular space monitor. Facility needs to start monitoring this every month and make sure there is an annular space monitor for this tank within 30 days.
5) Facility has had two 980 gallon A/G, D/W new and used oil tanks inside Chevrolet shop that have never been registered with DEP. Both looked in very good condition though neither have an annular space monitor. Facility needs to monitor annular space on a monthly basis and log in this activity. See attached registration reagding these tanks.
6) The two oil tanks do not have spill buckets but are not required as they are inside and in containment area.
7) See paperwork violations.
8) See attached registration for corrections etc.
9) All tanks are properly labeled.

DRAFT

Environmental Protection and Growth Management Department
TI R TI DI ISI
One North University Drive Suite A203 Plantation Florida 33324
954-519-1260 • Fax 954-765-4804

July 13, 2015

LOU BACHRODT CHEVROLET
5500 N HWY 7
COCONUT CREEK FL 33073

Chapter(s) 62-761/762, F.A.C., Non-Compliance Letter
Broward County – Regulated Storage Tanks
DEP Facility # 9700091

Dear ***Owner***:

The ***Pollution Prevention Division*** is contracted with the Florida Department of Environmental Protection (Department) to conduct the Storage Tank System Compliance Verification Program for facilities located in ***Broward*** County. On 07/13/2015 a storage tank inspection was conducted at the above referenced facility. A copy of the inspection report is enclosed for your review. Based on the inspection, you may not be operating in compliance with the requirements of Chapter(s) 62-761/762, Florida Administrative Code (F.A.C.).

(see attached inspection)

Any noncompliance items must be corrected immediately. Please provide a written response to this office within 30 days of receipt of this letter and provide documentation to show that the issues addressed in the enclosed report and in this letter have been resolved. Please include the facility identification number on all correspondence. Your failure to timely respond may result in further enforcement action.

Please be aware that violations of Chapter(s) 62-761/762, F.A.C., may subject you to penalties of up to $10,000.00 per day per violation, in addition to investigative costs. These penalties and costs may be imposed in accordance with Chapters 376 and 403, Florida Statutes.

If you have any questions please contact *Clearvens Jean-Baptiste* (JB) at *(954) 818-7541 and/or 1 N University Drive, Plantation, FL 33324 and/or fax to (954) 765-4804 and/or email* *cjeanbaptiste@broward.org* .

Sincerely,

Clearvens Jean-Baptiste (JB)
Natural Resource Specialist II

Enclosure

DRAFT

Florida Department of Environmental Protection

Twin Towers Office Bldg. 2600 Blair Stone Road. Tallahassee, Florida 32399-2400

Division of Waste Management
Bureau of Petroleum Storage Systems

Storage Tank Facility Annual Compliance Site Inspection Report

Facility Information:

Facility ID: 9700091 County: BROWARD Inspection Date: 07/13/2015

Facility Type: C -Fuel user/Non-retail

Facility Name: LOU BACHRODT CHEVROLET

5500 N HWY 7

COCONUT CREEK, FL 33073

Of Inspected ASTs: 2

USTs: 0

Mineral Acid Tanks: 0

Latitude: 26° 17' 36.9846"

Longitude: 80° 12' 3.0124"

LL Method: AGPS

Inspection Result:

Result : Minor Out of Compliance

Description: Facility is Minor Out of Compliance.

Financial Responsibility Over Due

Financial Responsibility: INSURANCE

Insurance Carrier: NAUTILUS INSURANCE COMPANY

Effective Date: 05/13/2013 Expiration Date: 05/13/2014

Signatures:

TKBWNR - BROWARD COUNTY ENVIRONMENTAL PROTECTION DEPT

Storage Tank Program Office

(954) 519-1486

Storage Tank Program Office Phone Number

Clearvens C JeanBaptiste

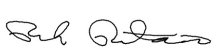
INSPECTOR NAME



INSPECTOR SIGNATURE

Rick Ritacco

REPRESENTATIVE NAME



REPRESENTATIVE SIGNATURE

DRAFT

Facility ID: 9700091

Owners of UST facilities are reminded that the Federal Energy Policy Act of 2005 requires Operator Training at all facilities by August 8, 2012. For further information please visit: http://www.dep.state.fl.us/waste/categories/tanks/pages/op_train.htm

Reviewed Records

Record Category	Record Type	From Date	To Date	Reviewed Record Comment
Life Time	Written Release Detection Response Level Info	07/13/2015	07/13/2015	
Other	Current Local Government Permit, If Applicable	08/01/2014	07/31/2016	

New Violations

Type: Violation
Significance Name: Minor
Rule: 62-762.701(1)(a)1.d., 62-762.701(1)(a)1.c., 62-762.701(1)(a)1.b., 62-762.701(1)(a)1.a.
Violation Text: Not repaired component which has or could cause a discharge or release.
Explanation: Tanks are dirty with fading paint
Labels are fading
Vegetation observed around above ground piping
Brace is disintegrating
Corrective Action: Tanks are dirty with fading paint
Labels are fading
Vegetation observed around above ground piping
Brace is disintegrating

Contact inspector CJeanBaptiste@Broward.org
30 days to comply

Type: Violation
Significance Name: Minor
Rule: 62-762.711(2)(h), 62-762.711(2)(g), 62-762.711(2)(f), 62-762.711(2)(e), 62-762.711(2)(d), 62-762.711(2)(c), 62-762.711(2)(b), 62-762.711(2)(a)
Violation Text: Records requiring 2 year documentation period not kept by facility.
Explanation: Certification of Financial Responsibility has expired
Corrective Action: Please provide copy of updated insurance policy for the generator tank and fueling tank
Contact inspector CJeanBaptiste@Broward.org
30 days to comply

Type: Violation
Significance Name: Minor
Rule: 62-762.701(1)(c)3.
Violation Text: Release detection devices not tested annually.
Explanation: No annual certification test for the Pneumercator
Corrective Action: Please contract for Pneumercator to be service yearly
Contact inspector CJeanBaptiste@Broward.org

DRAFT

30 days to comply

Site Visit Comments

07/13/2015

ABOVEGROUND “GENERATOR” TANK INSPECTION
Reviewed cover page.
Reviewed site diagram
Verified Coordinates
County license is available and current 8/1/2014-7/31/2016
FDEP placard is available 6/10/2015-6/30/2016
A Release Detection Response Level (RDRL), in writing is available
Certificate of Financial Responsibility (CFR) INSURANCE not available.
No Monthly visual inspection log
The aboveground generator tank is double wall (Belly Tank).
Facility has one regulated double walled AG diesel generator tank (2000gal)
The tank exterior is in ok condition, tank has minimal structural rust.
The tank is properly labeled.
System has a Generac Powersystem /Power monitor panel as electronic release detection device to monitor
The tanks rupture basin (interstitial)
Visual and audible alarm are functioning properly

ABOVEGROUND TANK INSPECTION

Reviewed cover page.
Reviewed site diagram
Verified Coordinates
County license is available and current 8/1/2014-7/31/2016
FDEP placard is available 6/10/2015-6/30/2016
A Release Detection Response Level (RDRL), in writing is available
Certificate of Financial Responsibility (CFR) INSURANCE not available.
No Monthly visual inspection log
No annual certification test for the Pneumercator

Facility has one regulated double walled AG diesel fueling tank (2200gal)
Phoenix manufacturing tank
Tank is dirty with fading paint
Labels are fading
No leaks observed
Vegetation observed around above ground piping
Brace is disintegrating
Spill bucket is dry, No liquid present.
The tanks are monitored electronically with a Pneumercator TMS 2000.
Visual and audible alarms are functioning properly.

All fees were paid to the Florida Department of Environmental Protection. The release detection response level has been developed and has emergency phone numbers in case of a release.

Note-

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Facility ID: 9700091

Site Visit Comments

RDRL filled onsite
Monthly visual started with operator

30 days to comply all violation

Report to Rick Ritacco
RRitacco@loubachrodt.com

Inspection Photos

Added Date 07/13/2015

tank



Added Date 07/13/2015

top of fueling tank



Added Date 07/13/2015

piping



Added Date 07/13/2015

pipes



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Facility ID: 9700091

Added Date 07/13/2015

Pneumercator



DRAFT

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: 9700091 County: BROWARD Inspection Date:02/23/2023
Facility Type: C - Fuel user/Non-retail
Facility Name: LOU BACHRODT CHEVROLET/MAZDA # of inspected ASTs: 2
5500 N HWY 7 USTs: 0
COCONUT CREEK, FL 33073 Mineral Acid Tanks: 0
Latitude: 26° 17' 36.9846"
Longitude: 80° 12' 3.0124"
LL Method: AGPS

Inspection Result:

Result: Major Out of Compliance

Signatures:

TKBWNR - BROWARD COUNTY ENVIRONMENTAL PROTECTION DEPT (954) 519-1259

Storage Tank Program Office and Phone Number

Carlos J Grajeda Cardenas
Inspector Name

CG
Inspector Signature
Principal Inspector
BROWARD COUNTY ENVIRONMENTAL PROTECTION DEPT

Shawn Biskup
Representative Name

No Signature
Representative Signature
Manager
LOU BACHRODT CHEVROLET/MAZDA

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: Overdue

Financial Responsibility: INSURANCE

Insurance Carrier: NAUTILUS INSURANCE COMPANY

Effective Date: 05/13/2019 Expiration Date: 05/13/2020

Reviewed Records

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Record Category	Record type	From Date	To Date	Reviewed Record Comment
Other	Current Local Government Permit, If Applicable	08/01/2022	02/23/2023	County License is current until 7/31/2024

Violations:

Type: Violation
Significance: Minor
Rule: 62-762.701(1)(c), 62-762.701(1)(c)1, 62-762.701(1)(c)2, 62-762.702(1)(c), 62-762.702(1)(c)1, 62-762.702(1)(c)2
Violation Text: System not repaired in accordance with manufacturer's instructions or applicable requirements.
Explanation: "(c) Repairs shall be made:
1. To restore the structural integrity of the storage tank system and in a manner that will prevent releases or discharges from structural failure for the remaining operational life of the storage tank system; and,
2. In accordance with manufacturer’s specifications and applicable reference requirements"
Corrective Action: Please repair the Pneumercator LC1000 and provide a video of the system being tested with no alarms. Provide video at CGRAJEDACARDENAS@broward.org

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Type: Violation
Significance: SNC-B
Rule: 62-762.421(2), 62-762.421(3)(c)
Violation Text: No financial responsibility instrument or expired instrument for < 180 days.
Explanation: Financial responsibility shall be maintained and demonstrated to the County or Department for all storage tank systems until the storage tank systems are properly closed pursuant to subsections 62-762.801(2) and (3), and 62-762.802(3) and (4), F.A.C., and the Closure Report or the Limited Closure Report Form for ASTs 62-762.901(8), effective date, October 2019, hereby adopted and incorporated by reference, is submitted to and approved by the County or the Department.
Corrective Action: Please provide the financial responsibility for all storage tank systems. More info found at https://floridadep.gov/waste/permitting-compliance-assistance/content/storage-tank-financial-responsibility .Email financial responsibility at CGRAJEDACARDENAS@broward.org

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Type: Violation
Significance: Minor
Rule: 62-762.501(2)(e)3, 62-762.501(2)(e)3.a, 62-762.501(2)(e)3.b, 62-762.501(2)(e)4, 62-762.502(2)(e)4, 62-762.502(2)(e)4.a, 62-762.502(2)(e)4.b, 62-762.502(2)(e)5
Violation Text: Failure to designate, register, or annually test primary overfill protection device,
Explanation: An annual operability test shall be performed on the designated primary overfill protection device used to meet the Department’s overfill protection requirement at intervals not exceeding 12 months to ensure proper operation.
Corrective Action: Conduct annual operability test and provide a picture or scan of the test results at CGRAJEDACARDENAS@broward.org

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Type: Violation
Significance: SNC-B
Rule: 62-762.601(1)(e), 62-762.602(1)(e)
Violation Text: Storage tank system not visually inspected once a month.
Explanation: At least once a month, but not exceeding 35 days, every component of a storage tank system that contains, transfers, or stores, or is designed to contain, transfer, or store regulated substances that can be inspected visually shall be visually inspected and documented as to its condition pursuant to rule 62-762.711, F.A.C.

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Corrective Action:	Please conduct visual monthly inspections to the above ground storage tank. Email inspections at CGRAJEDACARDENAS@broward.org

Type:	Violation
Significance:	Minor
Rule:	62-762.601(7), 62-762.602(7)
Violation Text:	Annual operability testing of release detection systems not completed.
Explanation:	Annual operability testing of release detection systems. All release detection devices shall be tested annually at intervals not exceeding 12 months to ensure proper operation.
Corrective Action:	Conduct annual release detection test and provide a picture or scan of the test results at CGRAJEDACARDENAS@broward.org

Type:	Violation
Significance:	Minor
Rule:	62-762.401(1)(b), 62-762.401(2), 62-762.401(3), 62-762.401(3)(a), 62-762.401(3)(b), 62-762.401(3)(c)
Violation Text:	Registration Form not submitted for a new system, change in service, closure, owner change, or discovery of unregistered facility.
Explanation:	"For new facilities, which are facilities that began construction after January 11, 2017, a completed Form 62-762.901(2), Storage Tank Facility Registration Form (Registration Form), effective date, July 2019, hereby adopted and incorporated by reference, shall be submitted in electronic or paper format to the Department no later than 30 days prior to installation."
Corrective Action:	"Please update the registration form https://floridadep.gov/waste/permitting-compliance-assistance/documents/storage-tank-registration-form-instructions. Compliance Assistance can be provided by Eduardo Koenig 954.519.1406 Office 954.740.0231 Cell"

Type:	Violation
Significance:	SNC-B
Rule:	62-762.701(1), 62-762.701(1)(a), 62-762.701(1)(a)1, 62-762.701(1)(a)2, 62-762.701(1)(a)3, 62-762.702(1), 62-762.702(1)(a), 62-762.702(1)(a)1, 62-762.702(1)(a)2, 62-762.702(1)(a)3
Violation Text:	Not repaired component or piping which has not caused a discharge or release.
Explanation:	(a) Repairs shall be performed if any component of a storage tank system has: An operational or structural problem that could potentially result in a release or discharge, or lead to the presence of water in the interstice of a storage tank or integral piping other than condensate.
Corrective Action:	Please conduct any repairs to the areas where rust is observed in the tank and provide pictures of the corrective action at CGRAJEDACARDENAS@broward.org

Site Visit Comments

02/23/2023

Introduction:

On February 23, 2023, Carlos Grajeda with Broward County conducted an inspection at LOU BACHRODT CHEVROLET/MAZDA (LBCM). LBCM was inspected to determine the facility's compliance with the state storage tanks regulations described in Chapter 62-762 F.A.C.

Upon arrival at the facility, the inspector presented their credentials and explained the purpose of the inspection.

Description:

The facility had two aboveground double wall storage tanks of steel with capacity of 2,000-gallons of Diesel and 2,200 gallons of Regular. The tanks were in a secure area. NFPA placards were posted on the tanks. The exterior of the tanks was in good condition. Rust was observed on the 2,000 gallons AST [62-762.701(1)(a)3]. No spills, or leakage were

DRAFT

observed.

2,000 gallons of Diesel AST:

The storage tank is equipped with a basin probe which acts as the release detection equipment. The storage tank is equipped with a Rochester Dial 5-01379 which acts as the tank overfill equipment. The spill containment bucket was properly colored coded/ to indicate the tank's regulated substance. The spill containment bucket was dry, free of liquid.

2,200 gallons of Regular AST:

The storage tank is equipped with an interstitial probe which acts as the release detection equipment. The storage tank is equipped with a Morrison Bros Clock Gauge which acts as the tank overfill equipment. The spill containment bucket was properly colored coded/ to indicate the tank's regulated substance. The spill containment bucket was dry, free of liquid.

The storage tank was connected to a Pneumercator LC1000. The test buttom did not work and several alarms were off. It was not clear which alarms where off because the label on the lights was missing. [62-762.701(1)(c)]

Recordkeeping:

The cover page, and coordinates were verified. The facility shall update the contact information [62-762.401(1)(b)].

The placard was valid at the time of inspection.

Financial responsibility was not demonstrated to the County for the storage tanks system. [62-762.421(2)]

The facility could not demonstrate that once a month every component of a storage tank system that contains, transfers, or stores, or is designed to contain, transfer, or store regulated substances was inspected and visually documented. [62-762.601(1)(e)]

Release detection device annual operability testing, and annual overfill protection device testing were not up-to date for both tanks. [62-762.501(2)(e)4] [62-762.601(7)]

Report sent via email to:
sbiskup@loubachrodt.com
lnunez@loubachrodt.com

No signature was captured due to COVID-19 protocols.

Inspection Photos

Added Date 02/23/2023

2,200 gallons AST



Added Date 02/23/2023

2,200 gallons AST



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Added Date 02/23/2023

2,200 gallons AST



Added Date 02/23/2023

2,200 gallons AST



Added Date 02/23/2023

2,000 gallons AST



Added Date 02/23/2023

2,000 gallons AST



Added Date 02/23/2023

2,000 gallons AST



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Resilient Environment Department
ENVIRONMENTAL PERMITTING DIVISION
1 North University Drive, Mailbox 201, Plantation, Florida 33324 • 954-519-1483 • FAX 954-519-1412

February 23, 2023
Shawn Biskup
LOU BACHRODT CHEVROLET/MAZDA
5500 N HWY 7
COCONUT CREEK, FL, 33073

RE: **Compliance Assistance Offer**
LOU BACHRODT CHEVROLET/MAZDA, 5500 N HWY 7, COCONUT CREEK, 33073
DEP Facility ID#: 069700091
Broward County – Storage Tank Program

Dear Shawn Biskup,

A storage tanks inspection and file review were conducted at the above noted facility on or about 02/23/2023, by the Broward County Environmental Permitting Division, on behalf of the Florida Department of Environmental Protection. During the inspection and file review, potential non-compliance was noted. The purpose of this letter is to offer compliance assistance as a means of resolving this matter.

Specifically, potential non-compliance with the requirements of Chapter 376 and 403, Florida Statutes, and *Chapter 62-761 & 62-762*, Florida Administrative Code (Fla. Admin. Code) was observed. Please see the attached inspection report for a full account of County observations and recommendations. We request you review the item(s) of concern and respond in writing within **15 days** of receipt of this Compliance Assistance Offer. Your written response should include one of the following:

1. Describe what has been done to resolve the non-compliance issue(s) or provide a schedule describing how/when the remaining issues will be addressed.
2. Provide the requested information, or information that mitigates the concerns or demonstrates them to be invalid.
3. Arrange for the inspector to visit your facility to discuss the item(s) of concern.

It is the Department's desire that you are able to adequately address the aforementioned issues so that this matter can be closed. Your failure to respond promptly may result in the initiation of formal enforcement proceedings. Please address your response and any questions to *Carlos Grajeda* at 954-395-4037 or cgrajedacardenas@broward.org.

Sincerely,

Carlos Grajeda
Natural Resource Specialist
Enclosure:

DRAFT

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: 9700091 County: BROWARD Inspection Date:02/23/2023
Facility Type: C - Fuel user/Non-retail
Facility Name: LOU BACHRODT CHEVROLET/MAZDA # of inspected ASTs: 2
5500 N HWY 7 USTs: 0
COCONUT CREEK, FL 33073 Mineral Acid Tanks: 0
Latitude: 26° 17' 36.9846"
Longitude: 80° 12' 3.0124"
LL Method: AGPS

Inspection Result:

Result: Major Out of Compliance

Signatures:

TKBWNR - BROWARD COUNTY ENVIRONMENTAL PROTECTION DEPT (954) 519-1259

Storage Tank Program Office and Phone Number

Carlos J Grajeda Cardenas
Inspector Name

CG
Inspector Signature
Principal Inspector
BROWARD COUNTY ENVIRONMENTAL PROTECTION DEPT

Shawn Biskup
Representative Name

No Signature
Representative Signature
Manager
LOU BACHRODT CHEVROLET/MAZDA

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: Overdue

Financial Responsibility: INSURANCE

Insurance Carrier: NAUTILUS INSURANCE COMPANY

Effective Date: 05/13/2019 Expiration Date: 05/13/2020

Reviewed Records

DRAFT

Record Category	Record type	From Date	To Date	Reviewed Record Comment
Other	Current Local Government Permit, If Applicable	08/01/2022	02/23/2023	County License is current until 7/31/2024

Violations:

Type: Violation
Significance: Minor
Rule: 62-762.701(1)(c), 62-762.701(1)(c)1, 62-762.701(1)(c)2, 62-762.702(1)(c), 62-762.702(1)(c)1, 62-762.702(1)(c)2
Violation Text: System not repaired in accordance with manufacturer's instructions or applicable requirements.
Explanation: "(c) Repairs shall be made:
1. To restore the structural integrity of the storage tank system and in a manner that will prevent releases or discharges from structural failure for the remaining operational life of the storage tank system; and,
2. In accordance with manufacturer’s specifications and applicable reference requirements"
Corrective Action: Please repair the Pneumercator LC1000 and provide a video of the system being tested with no alarms. Provide video at CGRAJEDACARDENAS@broward.org

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Type: Violation
Significance: SNC-B
Rule: 62-762.421(2), 62-762.421(3)(c)
Violation Text: No financial responsibility instrument or expired instrument for < 180 days.
Explanation: Financial responsibility shall be maintained and demonstrated to the County or Department for all storage tank systems until the storage tank systems are properly closed pursuant to subsections 62-762.801(2) and (3), and 62-762.802(3) and (4), F.A.C., and the Closure Report or the Limited Closure Report Form for ASTs 62-762.901(8), effective date, October 2019, hereby adopted and incorporated by reference, is submitted to and approved by the County or the Department.
Corrective Action: Please provide the financial responsibility for all storage tank systems. More info found at https://floridadep.gov/waste/permitting-compliance-assistance/content/storage-tank-financial-responsibility .Email financial responsibility at CGRAJEDACARDENAS@broward.org

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Type: Violation
Significance: Minor
Rule: 62-762.501(2)(e)3, 62-762.501(2)(e)3.a, 62-762.501(2)(e)3.b, 62-762.501(2)(e)4, 62-762.502(2)(e)4, 62-762.502(2)(e)4.a, 62-762.502(2)(e)4.b, 62-762.502(2)(e)5
Violation Text: Failure to designate, register, or annually test primary overfill protection device,
Explanation: An annual operability test shall be performed on the designated primary overfill protection device used to meet the Department’s overfill protection requirement at intervals not exceeding 12 months to ensure proper operation.
Corrective Action: Conduct annual operability test and provide a picture or scan of the test results at CGRAJEDACARDENAS@broward.org

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Type: Violation
Significance: SNC-B
Rule: 62-762.601(1)(e), 62-762.602(1)(e)
Violation Text: Storage tank system not visually inspected once a month.
Explanation: At least once a month, but not exceeding 35 days, every component of a storage tank system that contains, transfers, or stores, or is designed to contain, transfer, or store regulated substances that can be inspected visually shall be visually inspected and documented as to its condition pursuant to rule 62-762.711, F.A.C.

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Corrective Action:	Please conduct visual monthly inspections to the above ground storage tank. Email inspections at CGRAJEDACARDENAS@broward.org

Type:	Violation
Significance:	Minor
Rule:	62-762.601(7), 62-762.602(7)
Violation Text:	Annual operability testing of release detection systems not completed.
Explanation:	Annual operability testing of release detection systems. All release detection devices shall be tested annually at intervals not exceeding 12 months to ensure proper operation.
Corrective Action:	Conduct annual release detection test and provide a picture or scan of the test results at CGRAJEDACARDENAS@broward.org

Type:	Violation
Significance:	Minor
Rule:	62-762.401(1)(b), 62-762.401(2), 62-762.401(3), 62-762.401(3)(a), 62-762.401(3)(b), 62-762.401(3)(c)
Violation Text:	Registration Form not submitted for a new system, change in service, closure, owner change, or discovery of unregistered facility.
Explanation:	"For new facilities, which are facilities that began construction after January 11, 2017, a completed Form 62-762.901(2), Storage Tank Facility Registration Form (Registration Form), effective date, July 2019, hereby adopted and incorporated by reference, shall be submitted in electronic or paper format to the Department no later than 30 days prior to installation."
Corrective Action:	"Please update the registration form https://floridadep.gov/waste/permitting-compliance-assistance/documents/storage-tank-registration-form-instructions. Compliance Assistance can be provided by Eduardo Koenig 954.519.1406 Office 954.740.0231 Cell"

Type:	Violation
Significance:	SNC-B
Rule:	62-762.701(1), 62-762.701(1)(a), 62-762.701(1)(a)1, 62-762.701(1)(a)2, 62-762.701(1)(a)3, 62-762.702(1), 62-762.702(1)(a), 62-762.702(1)(a)1, 62-762.702(1)(a)2, 62-762.702(1)(a)3
Violation Text:	Not repaired component or piping which has not caused a discharge or release.
Explanation:	(a) Repairs shall be performed if any component of a storage tank system has: An operational or structural problem that could potentially result in a release or discharge, or lead to the presence of water in the interstice of a storage tank or integral piping other than condensate.
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02/23/2023

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DRAFT

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The storage tank was connected to a Pneumercator LC1000. The test buttom did not work and several alarms were off. It was not clear which alarms where off because the label on the lights was missing. [62-762.701(1)(c)]

Recordkeeping:

The cover page, and coordinates were verified. The facility shall update the contact information [62-762.401(1)(b)].

The placard was valid at the time of inspection.

Financial responsibility was not demonstrated to the County for the storage tanks system. [62-762.421(2)]

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Release detection device annual operability testing, and annual overfill protection device testing were not up-to date for both tanks. [62-762.501(2)(e)4] [62-762.601(7)]

Report sent via email to:
sbiskup@loubachrodt.com
lnunez@loubachrodt.com

No signature was captured due to COVID-19 protocols.

Inspection Photos

Added Date 02/23/2023

2,200 gallons AST



Added Date 02/23/2023

2,200 gallons AST



DRAFT

Added Date 02/23/2023

2,200 gallons AST



Added Date 02/23/2023

2,200 gallons AST



Added Date 02/23/2023

2,000 gallons AST



Added Date 02/23/2023

2,000 gallons AST



Added Date 02/23/2023

2,000 gallons AST



DRAFT

Site 2 Capella Farms Inc
5730 N SR 7
Facility ID: 8625849
Risk Rating: Medium

DRAFT

DATA ENTERED

Department of Environmental Regulation

Stationary Tank Registration/Notification Form

MAY 28 1986

Form 17-1.218(2)

BY. _____

CAPELLA FARMS
P O BOX 2057
BOCA RATON FL 334~~32~~27

(Make corrections to name and addresses here)

1. Facility/Addressee name _____

Facility address 5730 N SR 7
Pompano Bch, FL

Mailing address _____

FACILITY LOCATION

ADDRESS: ~~P O BOX 2057~~ ~~33432~~ ~~29~~

CITY: ~~BOCA RATON~~ ~~FL 33432~~

Use this form to comply with the following requirements of the Stationary Tank Rule Chapter 17-61, Florida Administrative Code.

1. Each owner or operator shall register the following with the department.
   a. All existing facilities by December 31, 1984 (Questions 1-19)
   b. All new storage systems or facilities at least 10 days prior to the start of installation of tanks except in the cases of emergency replacement. (Questions 1-19)
   c. A non pollutant containing installation which is to be converted to a facility, at least 10 days prior to the placement of pollutants in such a facility (Questions 1-19)
2. Each owner or operator shall notify the department of the following
   a. All storage systems within 10 days of abandonment (Questions 1-12, 16, 20)
   b. Facility sale within 10 days of sale. Notice shall be made by the seller. (Answer questions 1-7, and 11. Question 7 about the new owner.)
   c. Retrofitting within 10 days of completion. (Questions 1-19)
3. You may notify the department of a change of operator. (Questions 1-6)

~~21015~~ Agency Use Only
SCQ # for county 50
~~DOR600223940~~
2 locations
1 in county 06
1 in county 50

CM

PLEASE PRINT OR TYPE

2. Facility number (DER will provide this number) 068625849 3. Date Nov 14, 1984
4. Federal Employment Identification (number used to file IRS forms) _____
5. County Code (see enclosed letter) 06
6. Operator of facility CAPELLA FARMS INC
   Effective date (only for change of operator) _____ Telephone number (305) 421-4562
7. Company/Person owning tanks and piping CAPELLA FARMS INC
   Address P.O. BOX 2057 BOCA RATON Fla 334~~32~~27
   Contact person WAYNE COLLIER Telephone number: (305) 421-4562
   Effective date (only for change of owner) _____
8. How many tanks at this location have an individual storage capacity of greater than 550 gallons and store vehicular fuel made from petroleum?
   5 Underground _____ Aboveground
9. Facility location Latitude ° ' " Longitude ° ' " Section ~~#~~ Township ~~47 S~~ Range ~~41 E~~
   This information is listed on property deeds, and in the offices of the property appraiser and tax assessor Palm Bch Co. Fla
10. Sketch the facility on a separate page showing the APPROXIMATE location of buildings, tanks, and dispensers.
    A. Draw a line from tank to dispenser to show which are connected by piping.
    B. Label each tank as Tank 1, Tank 2, etc.
    C. Write the date and your facility number, if known, or name and address exactly as it appears above.
    D. Keep a copy of your sketch.

REFER TO TANKS BY THESE LABELS IN ANY COMMUNICATION WITH THE DEPARTMENT
DESCRIBE PIPING BY THE NUMBER OF THE TANK IT IS ATTACHED TO

11. TO THE BEST OF MY KNOWLEDGE AND BELIEF ALL INFORMATION SUBMITTED ON THIS FORM IS TRUE, ACCURATE, AND COMPLETE

_____ Name of owner, operator or authorized representative

Wayne Collier
Signature of owner, operator or authorized representative

KEEP A COPY OF THIS FORM FOR YOUR RECORDS

MAIL TO: DER Stationary Tank Registration
2600 Blair Stone Road

DRAFT

DER FORM 17-1.218(2) 9/1/84 (2/2)

INSTRUCTIONS: Use one row across for each tank counted in question 8. The tank number must agree with the number on the sketch of your facility. A new tank installed where a registered tank was removed should be given the number of the removed tank with an R and a number added. Example. Tank 3R1 is first replacement for tank 3. It is in the same place where tank 3 was. Tank 3R2 is the second replacement for tank 3. Attach extra pages if necessary. Write your facility number, if known, or name and address, exactly as it appears on the front of the form, on all extra pages.

(12) Tank Number	(13) Tank Size in Gallons	(14) Tank Contents (see List 14 below)	(15) Tank Installation Date. Month/Year (put X if unknown)	(16) Underground or Aboveground Tank (write U or A)	(17) Tank Construction Specifics (see List 17U or 17A below)	(18) Integral Piping System Construction Specifics (see List 18 below)	(19) Monitoring System Type (see List 19)	(20) Tank Disposal Method (see List 20)
1	3000	B	~~Sept~~ 09 1979	U	D ~~O~~	D	Y ~~N~~	~~B~~ ~~C~~
2	2000	B	~~Sept~~ 09 1979	U	D ~~O~~	D	Y ~~N~~	~~C~~
3	2000	B	~~Sept~~ 09 1979	U	D ~~O~~	D	Y ~~N~~	~~C~~
~~4~~	~~3000~~	~~A~~	~~Sept 1956~~	~~U~~	~~O~~	~~D~~	~~N~~	~~C~~
~~5~~	~~1000~~	~~B~~	~~Sept 1956~~	~~U~~	~~O~~	~~D~~	~~N~~	~~C~~

ENTER THE LETTERS WHICH APPLY TO EACH TANK IN THE BOXES ABOVE. **WRITE ALL THAT APPLY.**

List 14

Tank contents are:

A. leaded gasoline.
B. unleaded gasoline.
C. Alcohol enriched gasoline.
D. diesel fuel.
E. aviation fuel.
Z. other.

List 17U
UNDERground Tanks

Underground tank:

A. has overfill protection.
B. is interior lined.
C. is painted/asphalted steel.
D. is of unknown type.
E. is fiberglass type.
F. is fiberglass-clad steel.
G. is sacrificial anode type.
H. is impressed current type.
I. is double walled.
J. is concrete.
K. is in secondary containment.
N. is or has none of the above.

List 17A
ABOVEground Tanks

Aboveground tank:

O. has overfill protection.
P. is surrounded by impervious dike.
Q. is surrounded by earth dike.
R. rests on an inpervious base.
S. rests on a earth/gravel base.
T. has interior lined bottom.
U. is cathodically protected.
V. is built of/coated with corrosion resistant materals.
W. is supported above the soil.
Z. is or has none of the above.

List 18

Integral Piping System has:

A. no parts in contact with the soil.

Parts contacting the soil which are:

B. unprotected metal.
C. built of corrosion resistant materials.
D. corroson resistant coated.
E. cathodically protected.
F. double-walled.
G. within a secondary containment.
H. interior lined.
M. none of the above.

List 19

Monitoring system is:

A. automatically sampled well(s).
B. manually sampled well(s).
C. groundwater monitoring plan.
D. SPCC plan.
E. well/detector in secondary containment.
F. in-ground detector.
G. within walls of double-walled tank.
H. continuous in piping.
I. not required.
N. none of the above.

List 20

Tank **disposal** method.

A. Filling.
B. Removal.
C. Retrofitting.
F. Other.

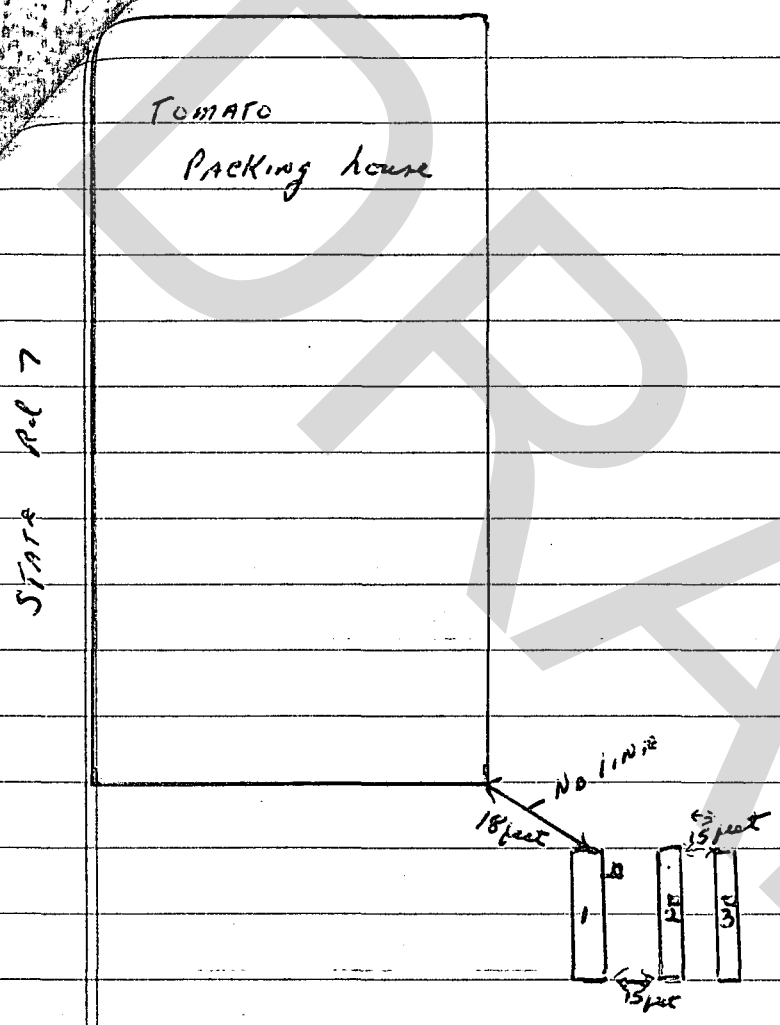
DRAFT

Environmental Regu... ...tion/Notific...

...orrections to name and addre...
...ressee name

The North 380 feet of TRACT 13 Block 86
Palm Bch Farms AS Recorded in plat Book 2 Page 53
BROWARD COUNTY, Fla

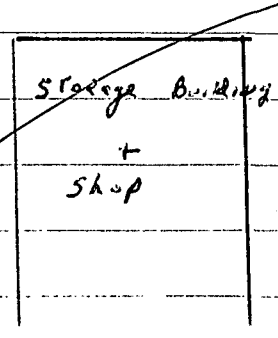
Also 5730 North State Rd 7 Pompano Bch, Fla



CAPELLA FARMS
P.O. BOX 2057
BOCA RATON Fla 33427

□ Symbol FOR DISPENSER

TRACT 34 Fla. Fruit Lands Co, Section 11 Township 47 South
Range 41 EAST Palm Bch Co Fla Also 19583 115 Ave S
Boca Raton Fla



CAPELLA FARMS
P.O. Box 2057
Boca Raton, Fla 33427

DRAFT

STORAGE TANKS INVENTORY
FACSIMILE REGISTRATION

FACILITY ID: 068625849 DATE: 7-21-89

NAME: Capella Farms, Inc TOTAL TANKS: 3

ADDRESS: 5730 N. SR 7 AMOUNT DUE: 75

CITY: Pompano Bch AMOUNT PAID: 75

****

TYPE OF PAYMENT: INITIAL ____

(3) RENEWAL ✓

PENALTY ____

CHECK RECEIVED WITHOUT REGISTRATION FORM

DRAFT

DRAFT

STI425

068625849

068625849-068625849

000075 890721 2501

1250

Capella Farms, Inc.
Post Office Box 2057
Boca Raton, Florida 33432
305-421-4562

Motor fuel Tank Registration

Facility I.D. 068625849

Facility location 5730 North State Road 7
Pompano Beach, FL 33069

I did not receive a renewal notice for the above facility. It must have been lost in the mail as you have our correct mailing address above. I am enclosing a check for $75.00 for renewal fees.

Thank you;
Capella Farms, Inc
Wendy Capella Nelson

DRAFT

FILE

6/8625849: **Capella Farms, Inc.** **Fuel user/non-retail**
5730 N Sr 7, Pompano Beach

Tank ID	Size	Above/ Under	Contents	Install Date	Charge Type (For Year)	Fee	Penalty	Due
1	3,000	U	Unleaded Gas	09/79	Renewal(96-97)	$25		$25
2	3,000	U	Unleaded Gas	09/79	Renewal(96-97)	$25		$25
3	3,000	U	Unleaded Gas	09/79	Renewal(96-97)	$25		$25

Payments:	$0.00	Charges:	$75.00
Adjustments:	$0.00	Balance Due:	$75.00

paid thru 95-96
this site closed 2/96
Spoke with your office to verify an error was made on this invoice.

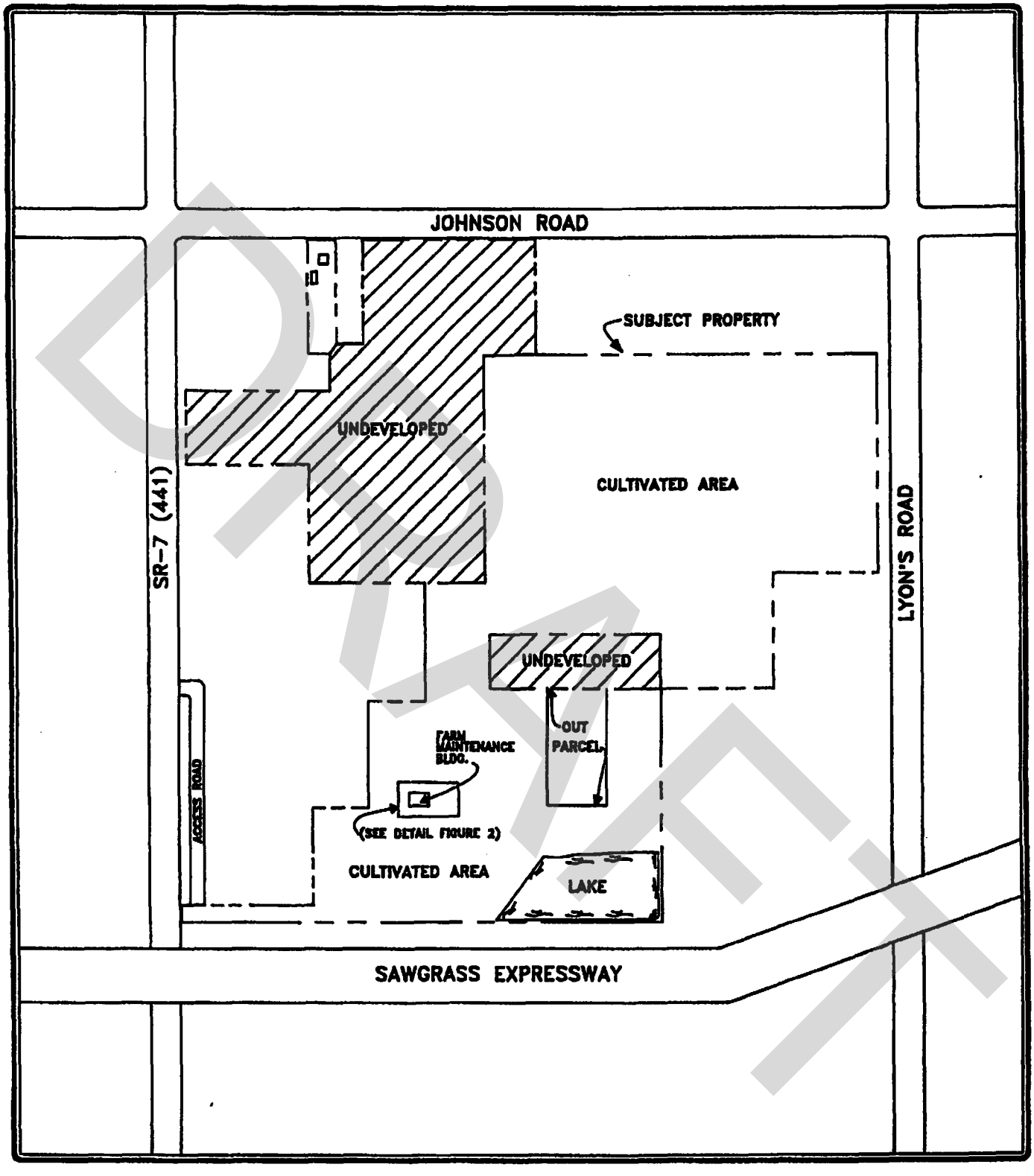
DRAFT

Site 3 Residence Inn by Marriott
5730 N State Road 7
Facility ID: 9817162
Risk Rating: Low

DRAFT

Site 4 Club Caribe Associates
5510 NW 61st St #101
Facility ID: 9400067
Risk Rating: Low

DRAFT



M&A	LEGEND: SCALE 0 750 FEET	NORTH
DATE: 12/08/92	SITE ADDRESS: CORAL CREEK CORPORATE CENTER, COCONUT CREEK, FLORIDA	DRN. BY: NDF
JOB NO: PE1-425	FIGURE 1. SITE LOCATION MAP	DWG. NO: P1425SIT

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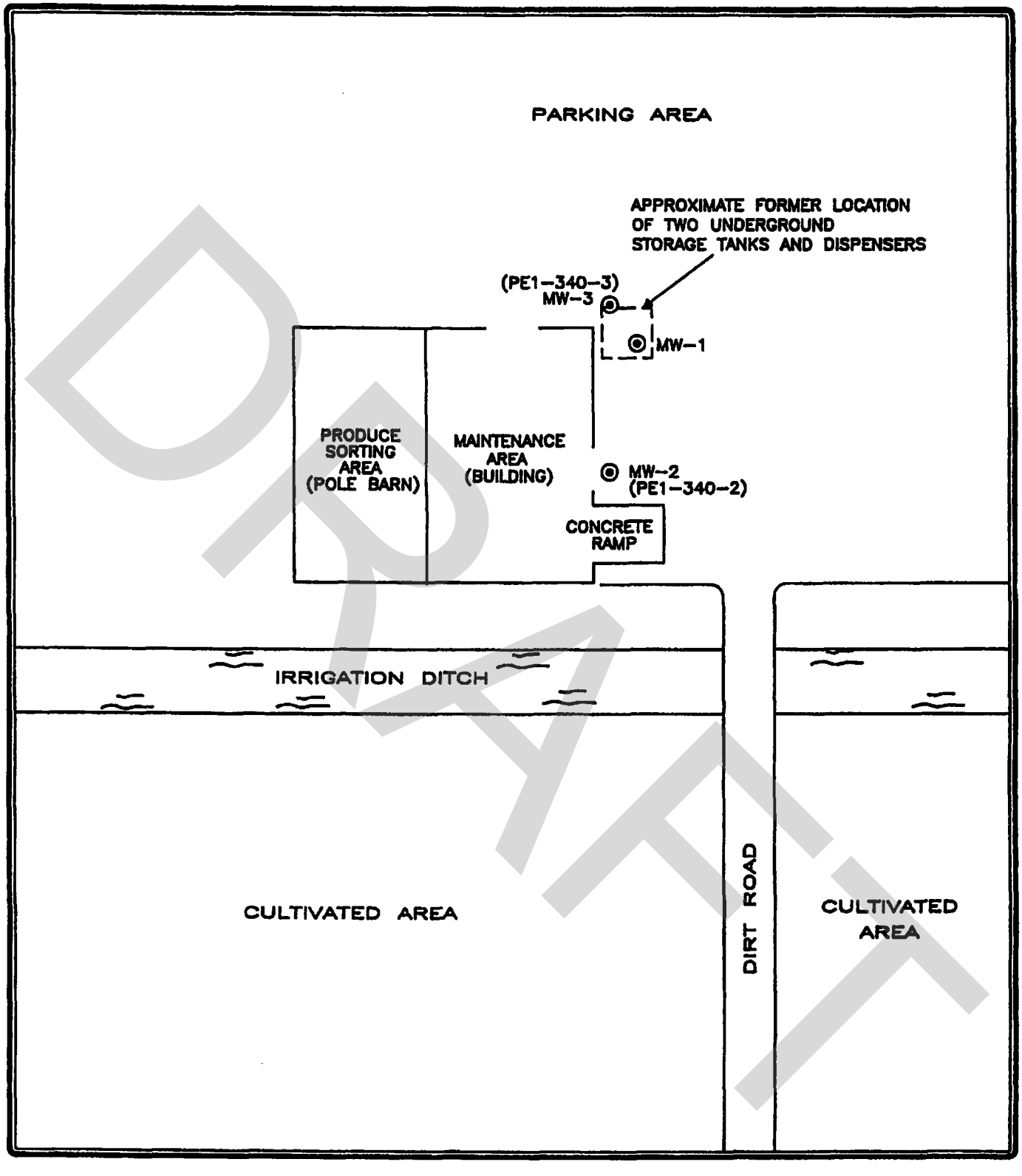

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MSA	LEGEND: ◎ – MONITORING WELL LOCATION SCALE 0 30 FEET	NORTH
DATE: 12/08/92	SITE ADDRESS: CORAL CREEK CORPORATE CENTER, COCONUT CREEK, FLORIDA	DRN. BY: NDF
JOB NO: PE1-425	FIGURE 2. DETAIL OF FARM MAINTENANCE AREA	DWG. NO: P1425MA

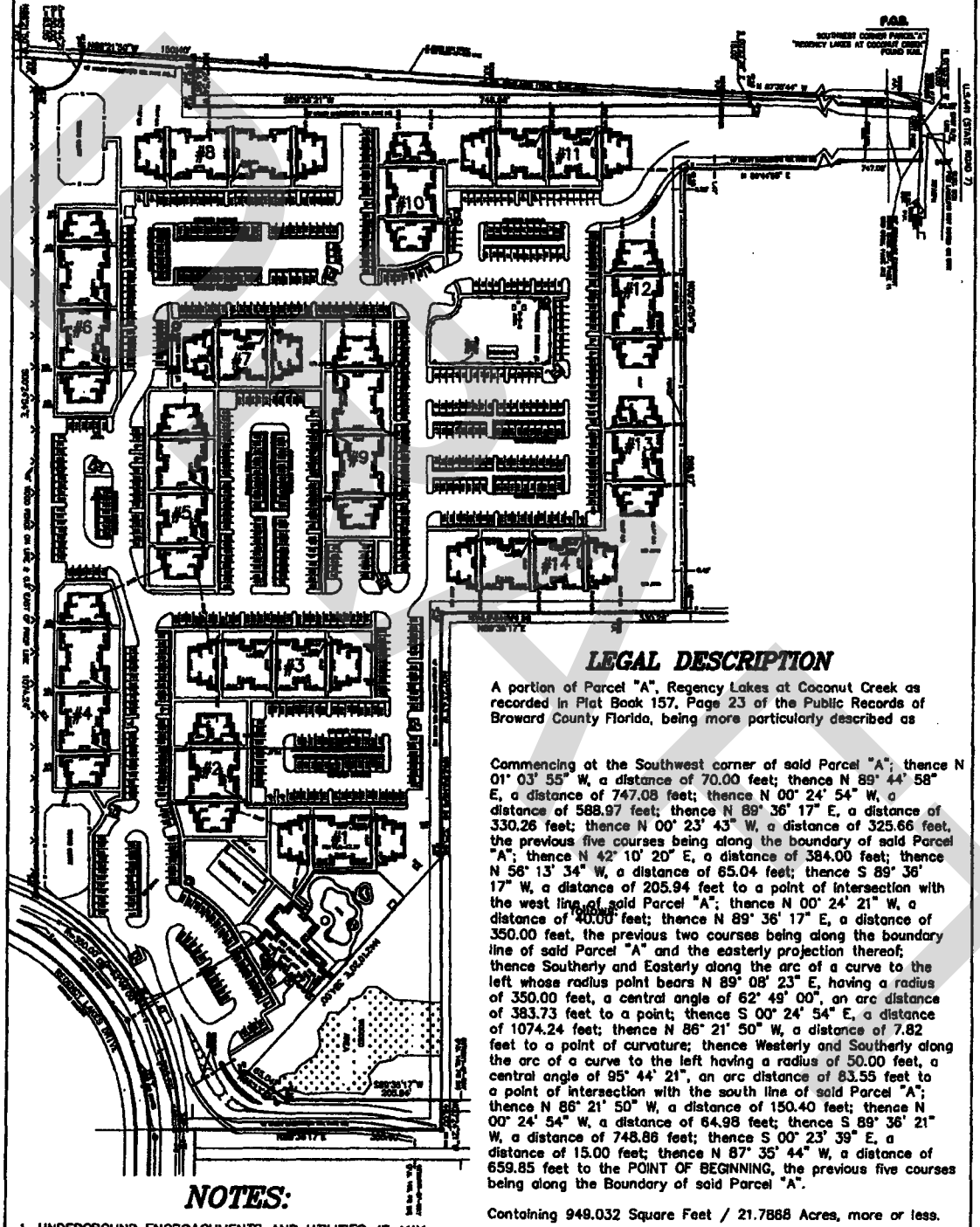
CLUB CARIBE, A CONDOMINIUM

5500 NORTHWEST 61ST STREET, COCONUT CREEK
LYING AND BEING IN BROWARD COUNTY, FLORIDA

Initials ____
Date ____

106694127

SITE PLAN



LEGAL DESCRIPTION

A portion of Parcel "A", Regency Lakes at Coconut Creek as recorded in Plat Book 157, Page 23 of the Public Records of Broward County Florida, being more particularly described as

Commencing at the Southwest corner of said Parcel "A"; thence N 01° 03' 55" W, a distance of 70.00 feet; thence N 89° 44' 58" E, a distance of 747.08 feet; thence N 00° 24' 54" W, a distance of 588.97 feet; thence N 89° 36' 17" E, a distance of 330.26 feet; thence N 00° 23' 43" W, a distance of 325.66 feet, the previous five courses being along the boundary of said Parcel "A"; thence N 42° 10' 20" E, a distance of 384.00 feet; thence N 56° 13' 34" W, a distance of 65.04 feet; thence S 89° 36' 17" W, a distance of 205.94 feet to a point of intersection with the west line of said Parcel "A"; thence N 00° 24' 21" W, a distance of 40.00 feet; thence N 89° 36' 17" E, a distance of 350.00 feet, the previous two courses being along the boundary line of said Parcel "A" and the easterly projection thereof; thence Southerly and Easterly along the arc of a curve to the left whose radius point bears N 89° 08' 23" E, having a radius of 350.00 feet, a central angle of 62° 49' 00", an arc distance of 383.73 feet to a point; thence S 00° 24' 54" E, a distance of 1074.24 feet; thence N 86° 21' 50" W, a distance of 7.82 feet to a point of curvature; thence Westerly and Southerly along the arc of a curve to the left having a radius of 50.00 feet, a central angle of 95° 44' 21", an arc distance of 83.55 feet to a point of intersection with the south line of said Parcel "A"; thence N 86° 21' 50" W, a distance of 150.40 feet; thence N 00° 24' 54" W, a distance of 64.98 feet; thence S 89° 36' 21" W, a distance of 748.86 feet; thence S 00° 23' 39" E, a distance of 15.00 feet; thence N 87° 35' 44" W, a distance of 659.85 feet to the POINT OF BEGINNING, the previous five courses being along the Boundary of said Parcel "A".

Containing 949.032 Square Feet / 21.7868 Acres, more or less.

NOTES:

1. UNDERGROUND ENCROACHMENTS AND UTILITIES, IF ANY, NOT LOCATED. FENCE OWNERSHIP BY VISUAL MEANS ONLY. LEGAL OWNERSHIP NOT DETERMINED.
2. LANDS SHOWN HEREON WERE NOT ABSTRACTED FOR EASEMENTS AND/OR RIGHTS-OF-WAY OF RECORD.
3. LEGAL DESCRIPTION PROVIDED BY CLIENT
4. UNLESS OTHERWISE SHOWN, THE RECORD AND MEASURED DATA ARE IN SUBSTANTIAL AGREEMENT

AMENDMENT TO DECLARATION OF CONDOMINIUM
RECORDED IN OFFICIAL RECORDS BOOK 41545, PAGE 90
OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA

DONALD T. RAMSAY, PSM
Professional Surveyor & Mapper
612 Northwest 162nd Avenue
Pembroke Pines, Florida 33028
Phone & Fax: (305) 245-6974

EXHIBIT

DATE:	SCALE:	DWN BY:	SHEET 1 OF 3
10/15/06	1/16"=10'	JHB	

N

ERROR

CLUB CARIBE, A CONDOMINIUM

5500 NORTHWEST 61ST STREET, COCONUT CREEK
LYING AND BEING IN BROWARD COUNTY, FLORIDA

THE UNDERSIGNED, A PROFESSIONAL SURVEYOR & MAPPER DULY AUTHORIZED TO PRACTICE UNDER THE LAWS OF THE STATE OF FLORIDA, HEREBY CERTIFIES: THAT: THE CONSTRUCTION OF THE IMPROVEMENTS DESCRIBED HEREIN IS SUBSTANTIALLY COMPLETE SO THAT THIS AMENDMENT TO THE EXHIBIT OF THE DECLARATION OF CONDOMINIUMS OF CLUB CARIBE, A CONDOMINIUM, TOGETHER WITH THE PROVISIONS OF THE AFORESAID DECLARATION OF CONDOMINIUM DESCRIBING THE CONDOMINIUM PROPERTY AS IT RELATES TO THE MATTER OF SURVEY, IS AN ACCURATE REPRESENTATION OF THE LOCATION AND DIMENSIONS OF THE IMPROVEMENTS, AND FURTHER THAT THE IDENTIFICATION, LOCATION AND DIMENSIONS OF THE UNITS, COMMON ELEMENTS AND LIMITED COMMON ELEMENTS CAN BE DETERMINED FROM THESE MATERIALS.

BY: _____
DONALD T. RAMSAY
PROFESSIONAL SURVEYOR & MAPPER #5851
STATE OF FLORIDA

SURVEYOR'S SEAL

DRAFT

06 94 0007

AMENDMENT TO DECLARATION OF CONDOMINIUM
RECORDED IN OFFICIAL RECORDS BOOK 41545, PAGE 90
OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA

DONALD T. RAMSAY, PSM
Professional Surveyor & Mapper
612 Northwest 162nd Avenue
Pembroke Pines, Florida 33028
Phone & Fax: (305) 245-6974

EXHIBIT

DATE:	SCALE:	DWN BY:	SHEET 2 OF 3
10/15/06	1"=20'	JHB	

Florida Department of

Memorandum

Environmental Protection

To: Lewis Cornman

From: Nancy Harper

Date: December 11, 2008

Subject: Designation of No Cleanup Required for a Discharge

After reviewing documents submitted by Ali Younes of Broward County Pollution Prevention, Remediation & Air Quality Division for the discharge dated 05 / 08 / 1992 in PCT for this facility, I have determined that that discharge date should receive a designation of No Cleanup Required. A revised Contamination Assessment Plan was received by Broward County on November 15, 1993, and reviewed by Katherine Lelis who determined the report acceptable for no further cleanup action according to a letter sent to the owner dated January 19, 1994.

Facility ID #: 069400067

Facility Name: CLUB CARIBE ASSOCIATES LLC

Facility Address: 5510 NW 61ST ST #101, COCONUT CREEK

Discharge Date: 05/08/1992

Attachments

Initials

Date

NREQ
12/11/08 1:23 PM

DRAFT

IMAGE QUALITY

AS YOU REVIEW THE NEXT GROUP OF IMAGES, PLEASE NOTE THAT THE ORIGINAL DOCUMENTS WERE OF POOR QUALITY.

DRAFT

BROWARD COUNTY
FLORIDA

Department of Natural Resource Protection
Division of Pollution Prevention and Remediation Programs
218 S.W. 1st Avenue
Fort Lauderdale, FL 33301
(305) 519-1260 • FAX (305) 765-4804

January 19, 1994

CERTIFIED MAIL R. R. R.
Receipt No. P 250 064 708

Hugh L. Ross, Jr., Project Manager
Alma Joint Venture
4355 N. W. 128th Street
Miami, Florida 33054

Re: Revised Contamination Assessment Plan (CAP) submitted November 15, 1993 for Coral Creek Commerce Center, Sawgrass Expressway and Highway 441, Coconut Creek, FL 33073

Dear Mr. Ross:

The Broward County Department of Natural Resource Protection (DNRP) has reviewed the above-referenced document. The CAP is acceptable. The status of this case has been reclassified to inactive, based solely on information submitted by your consultant, ViroGroup, Inc. No more reports are required.

You are required to properly abandon all monitoring wells except compliance wells required by Chapter 17-761 F.A.C. for release detection. The wells must be abandoned in accordance with the requirements of rule 17-532.500(4) F.A.C.

Should additional information become available which indicates that the site status has changed, DNRP reserves the right to reclassify the site to active and to require further investigation and/or remediation as appropriate.

If you have any questions or concerns, please feel free to call us.

Sincerely,

BROWARD COUNTY DEPARTMENT OF NATURAL RESOURCE PROTECTION

Katherine Lelis
Engineer II

Lorenzo Fernandez, P. E., Manager
Environmental Assessment and
Remediation Section

KL/ms
c:\wp51\ear\coralcrk.kl

cc: Thomas A. Cozzie, ViroGroup, Inc.
Kevin M. Burger, Director, Division of Pollution Prevention and Remediation Programs, DNRP

DRAFT

FILE on PCT006

Broward

Florida Department of Environmental Regulation

Twin Towers Office Bldg. ● 2600 Blair Stone Road ● Tallahassee, Florida 32399-2400

DER Form # 17-761.900(7)
Form Title: Discharge Reporting Form
Effective Date: December 10, 1990
DER Application No. _____ (Filled in by DER)

Discharge Reporting Form

3521
X

Use this form to notify the Department of Environmental Regulation of:

1. Results of tank tightness testing that exceed allowable tolerances within ten days of receipt of test result.
2. Petroleum discharges exceeding 25 gallons on pervious surfaces as described in Section 17-761.460 F.A.C. within one working day of discovery.
3. Hazardous substance (CERCLA regulated), discharges exceeding applicable reportable quantities established in 17-761.460(2) F.A.C., within one working day of the discovery.
4. Within one working day of discovery of suspected releases confirmed by: (a) released regulated substances or pollutants discovered in the surrounding area, (b) unusual and unexplained storage system operating conditions, (c) monitoring results from a leak detection method or from a tank closure assessment that indicate a release may have occurred, or (d) manual tank gauging results for tanks of 550 gallons or less, exceeding ten gallons per weekly test or five gallons averaged over four consecutive weekly tests.

Mail to the DER District Office in your area listed on the reverse side of this form

PLEASE PRINT OR TYPE

Complete all applicable blanks

1. DER Facility ID Number: 06940006 7 2. Tank Number: Two tanks 3. Date: 12-7-92
4. Facility Name: Coral Creek Corporate Center

   Facility Owner or Operator: Alma Joint Venture; Hugh L. Russ, Jr.

   Facility Address: State Road 7 & Sawgrass Expressway, Coconut Creek

   Telephone Number: (305) 685-6591 County: Broward

   Mailing Address: 4355 NW 128th Street, Miami, Florida 33054
5. Date of receipt of test results or discovery: May 8, 1992 month/day/year
6. Method of initial discovery. (circle one only)
   A. Liquid detector (automatic or manual)
   B. Vapor detector (automatic or manual)
   C. Tightness test (underground tanks only).
   D. Emptying and Inspection.
   E. Inventory control.
   F. Vapor or visible signs of a discharge in the vicinity.
   G. Closure: _____ (explain)
   H. Other: _____
7. Estimated number of gallons discharged: Unknown
8. What part of storage system has leaked? (circle all that apply) A. Dispenser B. Pipe C. Fitting D. Tank E. Unknown
9. Type of regulated substance discharged. (circle one)
   A. leaded gasoline
   B. unleaded gasoline
   C. gasohol
   D. vehicular diesel
   F. aviation gas
   G. jet fuel
   L. used/waste oil
   M. diesel
   O. new/lube oil
   V. hazardous substance includes pesticides, ammonia, chlorine and derivatives (write in name or Chemical Abstract Service CAS number) _____
   Z. other (write in name) _____
10. Cause of leak. (circle all that apply)
    A. Unknown
    B. Split
    C. Loose connection
    D. Corrosion
    E. Puncture
    F. Installation failure
    G. Spill _____
    H. Overfill
    I. Other (specify) _____
11. Type of financial responsibility. (circle one)
    A. Third party insurance provided by the state insurance contractor
    B. Self-insurance pursuant to Chapter 17-769.500 F.A.C.
    C. Not applicable
    D. None
12. **To the best of my knowledge and belief all information submitted on this form is true, accurate, and complete.**

Hugh L. Russ, Jr. / Alma Joint Venture — Printed Name of Owner, Operator or Authorized Representative

Hugh L. Russ Project Mgr. — Signature of Owner, Operator or Authorized Representative

Northwest District
160 Governmental Center
Pensacola, Florida 32501-5794
904-436-8300

Northeast District
7825 Baymeadows Way, Suite B 200
Jacksonville, Florida 32207
904-798-4200

Central District
3319 Maguire Blvd. Suite 232
Orlando, Florida 32803-3767
407-894-7555

Southwest District
4520 Oak Fair Blvd
Tampa, Florida 33610-7347
813 623 5561

South District
2269 Bay St
Fort Myers, Florida 33901 2696
813 332 6975

Southeast District
1900 S. Congress Ave. Suite A
West Palm Beach, Florida 33406
407-433 2650

FLORIDA PETROLEUM LIABILITY INSURANCE AND RESTORATION PROGRAM COMPLIANCE CHECKLIST

DATE 1/12/93
OER Facility # NONE
Facility Name Coral Creek Corporate Center
Facility Address 38.7 and Sawgrass Expressway
Coconut Creek, FL 33073
Contact Person/Telephone Hugh L. Russ (305 485-6591
Latitude 26/18/09 Longitude 80/12/05

For the items below that may indicate non-compliance or gross negligence, please explain in detail and provide supporting documentation.

YES	NO	UNKNOWN	I. Compliance with Chapter 376.3072, Florida Statutes and Chapter 17-769, F.A.C.
☐	☑	☐	1. Was any contamination discovered prior to January 1, 1989? If yes, explain.
☐	☐	☑	2. Petroleum Liability Insurance Program Affidavit form completed? If yes, give date notarized.
☐	☑		3. Is the site insured by FPLIPA? If not, supply the carrier insured with, or other type of financial responsibility mechanism used.
☐	☐	☑	4. Restoration Coverage Notice of Eligibility issued? If yes, give effective date.
☐	☑		5. Has site access ever been denied?
☑	☐		6. Has a Storage Tank Program compliance inspection ever been performed for this facility? If yes, give the date of the most recent inspection and supply a copy. 1/12/93
☐	☐	☑	7. Has the suspected petroleum storage system component responsible for the discharge been removed from service within 3 days of discovery. If no, explain. Tanks removed in 1989
☐	☐	☑	8. Have steps to obtain cleanup services been initiated within 3 days of the discharge discovery? If no, explain.

II. Information Required for Site Scoring and Ranking

☐	☑	9. Is there evidence of a contamination problem? If yes, explain in comment section.

If yes to 9, check one:

☐ a. Two or more monitoring wells/boreholes show >2" free product.

☐ b. Only 1 monitoring well shows >2" free product or monitoring wells show <2" free product or petroleum sheen.

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Facility # NONE
Date 1/12/93

yes to 9, check one:

|__| c. Monitoring wells are contaminated but contain no free product (vapors only).

|__| d. Soil contamination and/or recent product loss.

Check one:

10. Contamination Product Type

|__| a. Light petroleum (kerosene, gasoline, aviation fuel, etc.)

|__| b. Heavy petroleum (fuel oil, diesel or similar petroleum products)

|__| c. Unknown or other _____

Check those that apply:

11. Potable water

|__| a. Within 1/2 mile: Large wells >100,000 gpd
1. Indicate direction: _____
2. Estimate distance: _____

|__| b. Within 1/4 mile: small wells <100,000 gpd
1. Indicate direction: _____
2. Estimate distance: _____

|__| c. Surface water body used as a public water system.

12. Indicate below ~~proximity to population centers:~~ (restaurant, shopping center, house, etc.) produce warehouse

|__| a. < 500 feet: Indicate distance: _____

|X| b. > 500 feet: Estimate distance: ≈1000 ft

Please indicate how the site scoring and ranking information was determined. Tanks removed in 1989. Two excavated areas inspected. No floating observed in excavated areas. No monitoring wells on site.

Comments: Tanks removed in 1989 as per Roger Robinet of Missiner and Assoc (Environmental Consultant for owner). Site shows no visible signs of contamination (ie. soil stains, product sheen, etc)

Alan Canady Alan Canady — 1/12/93

Compliance Inspector — Inspection Date

DER District: _____ (or) Local Program: BCONRP

DER Form No.

DRAFT

3521
UZ

State of Florida
Department of Environmental Regulation

Pollutant Storage Tank System Inspection Report Form

Facility: ID. #: NONE County: Broward
Facility Name: Coral Creek Corporate Center
Facility Location: US441 / Sawgrass Expressway
Facility Contact: Alma Joint Venture / Hugh Russ Phone: 305/685-6591
Owner: Alma Joint Venture / Hugh L. Russ Jr. Phone: 305/685-6591
Owner Address: 4355 NW 128 ST Miami, FL 33054
Owner Contact: Hugh L. Russ Owner Change Date:
Latitude: 26 : 18 : 09 Longitude: 80 : 12 : 05 Fac. Type: M

Tank #	Size	Contents	Date Installed	Under or Above	Tank Type	Integral Piping	Monitoring System	Tank Status
1	UNK	UNK.	UNK	U	D	Y	Y	B
2	UNK.	UNK.	UNK	U	D	Y	Y	B
UNK = UNKNOWN								

Comments: > Observed two excavated areas adjacent to tractor/storage shed
> No U.G. tanks on site
> No floating product observed in excavation
> No monitoring wells on site
> Tanks removed in 1989 as per Roger Robinet of Missiner & Assoc.

Inspection Type: (Choose One)

- ☐ Routine
- ☒ Discharge (DRF)
- ☐ Installation
- ☐ Closure
- ☐ Abandoned
- ☐ Reinspection

Site Information: (All that apply)

- ☐ Near Public Wells
- ☐ Repaired
- ☐ Contaminated
- ☐ Upgraded
- ☐ Complaint
- ☐ Both UST & AST
- ☐ Acid Tanks
- ☐ Hazardous Materials

DER District or Local Program Broward County

Alan Canady
Inspector Name (Print):

Contact Name (Print):

Alan Canady 1/12/93
Inspector's Signature & Date

Contact's Signature & Date

DER Form 781-01-91

DRAFT

Name: Coral Creek Corp. Ctr
Facility I.D.#: None
Date: 1/12/93

UNDERGROUND STORAGE TANK COMPLIANCE INSPECTION FORM

			Yes	No	Unk	N/A
I.	**REGISTRATION/NOTIFICATION:** Comments:					
1.	Facility has registered all applicable tanks on site; 17-761.400	1.				
2.	Current registration placard is properly displayed; 17-761.410(6)	2.				
	Proper notification has been made for the following; 17-761.450:					
3.	Proper closure (30 days prior); (1) (a)	3.				
4.	Change of ownership (30 days after); (1) (b)	4.				
5.	Upgrading, replacement or installation (10 days prior); (1) (c)	5.				
6.	Change of tank status (in service/out of service), (within 30 days); (1) (d)	6.				
7.	Change of facility status (e.g. substances stored), (within 30 days); (1) (e)	7.				
8.	Change of method of financial responsibility (within 30 days); (3)	8.				
9.	Start of closure, upgrades or installation (24 hr. verbal or written); (4)	9.				
II.	**RECORD KEEPING:** Comments:					
10.	All records were maintained for two (2) years and were available for inspection within five (5) working days; 17-761.710 (1)	10.				
11.	Some but not all records were maintained for two (2) years and were available for inspection within five (5) working days; 17-761.710 (1)	11.				
III.	**REPORTING/DISCHARGE RESPONSE/REPAIRS:** Comments:					
	Proper reporting requirements been met for the following; 17-761.460:					
12.	Results of tightness test; (1)	12.				
13.	Any spill, overfill, or other discharge within one working day of discovery; (2)	13.				
14.	Suspected releases within one working day of discovery; (3) (a), (b)	14.				
15.	Confirmed releases (positive response of a release detection device) within one working day of discovery; (3) (c)	15.				
	The owner or the operator of the system which has discharged has:					
16.	Taken it out-of-service; 17-761.700 (1), had it repaired or replaced; .700, or properly closed it; .820 (1)	16.				
17.	Removed any regulated substances from the system; 17-761.820 (1)	17.				
18.	Tightness tested all repaired components before placing them back in service; 17-761.700 (6)	18.				
19.	Had repairs or replacements performed by a certified contractor; 489.105 (3)	19.				
20.	Had tightness tests performed by registered tank tester; 17-761.200	20.				
21.	Begun initial corrective actions for a release; 17-761.820 (2)	21.				
IV.	**INVENTORY REQUIREMENTS:** Comments:					
22.	All inventory requirements maintained in accordance with 17-761.720 (1)	22.				
23.	Some, but not all inventory requirements maintained in accordance with 17-761.720 (1)	23.				
V.	**PERFORMANCE STANDARDS/CATHODIC PROTECTION** Comments:					
	Storage tank criteria; 17-761.500, .520 and .550:					
24.	Facility meets applicable storage tank standards; (1)	24.				
25.	Systems meet siting requirements; (4)	25.				
26.	Tank(s) equipped with spill containment; (5) (b)	26.				
27.	Tank(s) equipped with overfill protection; (5) (b)	27.				
28.	Facility meets construction upgrading schedule; 17-761.510	28.				

DRAFT

INSPECTOR COPY

Name: Coral Creek Corporate Ct
Facility ID #: NONE
Date: 1/12/93

UNDERGROUND STORAGE TANK COMPLIANCE INSPECTION FORM

		Yes	No	Unk	N/A
V.	**PERFORMANCE STANDARDS/CATHODIC PROTECTION** Continued				
	Piping criteria; 17-761.500:				
29.	New piping has secondary containment; (2)				
30.	Dispensers are upgraded with properly installed and maintained liners; (6)				
31.	Facility meets construction upgrading schedule; 17-761.510 (6)				
	Cathodic Protection/Certified Contractors /Tightness Testing				
32.	Cathodic protection system provides continuous protection; 17-761.730 (1)-(4)				
33.	PSSSC conducted all storage tank repairs, installations or removals; 17-761.740 (1)-(9)				
34.	Test performed by a D.P.R.-registered tester; 17-761.740				
VI.	**RELEASE DETECTION/MONITORING WELLS** Comments:				
35.	New petroleum or hazardous substance storage tanks provided with an approved release detection system upon installation; 17-761.600 (3)				
36.	All release detection systems meet general release standards; 17-761.600				
37.	Release detection systems are monitored for a discharge at least every 30 days; 17-761.600 (5)				
38.	Groundwater monitoring wells are properly sampled and meet the requirements of 17-761.640 (1)				
39.	Vapor monitoring wells are properly sampled and meet the requirements of 17-761.640 (2)				
	An approved release detection system is provided for:				
40.	Existing hazardous substance storage tanks; 17-761.560				
41.	Existing vehicular fuel storage tanks; 17-761.610				
42.	Other existing regulated substance storage tanks; 17-761.620				
43.	Integral piping provided with secondary containment; 17-761.630				
44.	Integral piping without secondary containment; 17-761.640 (8)				
VII.	**OUT-OF-SERVICE STATUS** Comments:				
45.	Storage systems have been emptied of regulated substances; 17-761.200 (26)				
	Out-of-Service storage tank systems have; 17-761.800:				
46.	Corrosion protection properly maintained; (1) (a) (1)				
47.	Release detection system monitored for evidence of a discharge at least every six months; (1) (a) (2)				
48.	Vent lines open, ancillary equipment secured; (1) (b)				
49.	Been upgraded or replaced before returning to service; (1) (c)				
50.	Been tested tight before returning to service; (1) (c)				
51.	Been out-of-service for no more than two years; (1) (d)				
52.	Been out-of-service for no more than 12 months (unprotected bare steel systems); (2) (b)				
53.	Proper closure for an unmaintained tank; (2)				
54.	Had a closure assessment properly performed; (3)				
VIII.	**VARIANCE** Comments:				
55.	Facility applied for Alternate Procedure (Explain in comment) 17.761.850				
IX.	**Other** Comments:				
56.	Any other violations noted during inspection (Explain in comments)				

DRAFT

INSPECTOR COPY

IMAGE QUALITY

AS YOU REVIEW THE NEXT GROUP OF IMAGES, PLEASE NOTE THAT THE ORIGINAL DOCUMENTS WERE OF POOR QUALITY.

DRAFT

M&A MISSIMER & ASSOCIATES, INC.
Environmental and Groundwater Services
92 DEC 15 AM 11:19

Suite 101
600 Sandtree Drive
Lake Park, Florida 33403

(407) 775-6612
Fax (407) 775-6615

December 9, 1992

Mr. Shawn McSweeney
Broward County Office of Natural Resource Protection
2995 N. Dixie Highway
Fort Lauderdale, Florida 33334

RE: CLOSURE ASSESSMENT REPORT FOR UNDERGROUND STORAGE TANKS AT CORAL CREEK CORPORATE CENTER

Dear Mr. McSweeney:

During a site inspection at the referenced location in May, 1992, Missimer & Associates, Inc., (M&A) identified potential sources of contamination including the former location of two unregistered underground storage tanks. According to site personnel, the tanks were small (estimated 250 gallons each) and probably contained diesel for fueling farm vehicles. It is believed that the tanks were removed in 1989. A site location map and site plan are presented as Figures 1 and 2, respectively.

A limited assessment was conducted by collecting soil and groundwater samples for analysis. Soil contamination was determined by analysis using an organic vapor analyzer (OVA) equipped with a flame ionization detector (FID). Results of OVA analyses are presented as Table 1. Soil sampling locations are shown on Figure 3.

Two monitor wells were constructed in the area of the former tank location. Total naphthalenes of 285.9 micrograms per liter were identified in one well. Laboratory reports are attached.

Additional testing was done beyond the former tank location in areas identified with potential for contamination. One well sample and three composite soil samples were collected for laboratory analysis. Results of this testing indicated an area near the southeast corner of the maintenance building impacted by arsenic. Table 2 presents a list of the soil composite sampling locations.

An initial remedial action (IRA) is planned to remove contaminated soil. BCONRP will be informed of the schedule for this activity. Please contact us if you have any questions, or need any additional information.

Sincerely,

Roger L. Robinet 12/9/92

Roger L. Robinet, P.G.
Registered Geologist #1305
State of Florida

DRAFT

Florida Department of Environmental Regulation
Twin Towers Office Bldg. ● 2600 Blair Stone Road ● Tallahassee, Florida 32399-2400

Form Title: Closure Assessment Form
Effective Date: December 10, 1990
DER Application No. _____ (Filled in by DER)

Closure Assessment Form

Owners of storage tank systems that are replacing, removing or closing in place storage tanks shall use this form to demonstrate that a storage system closure assessment was performed in accordance with Rule 17-761 or 17-762, Florida Administrative Code. Eligible Early Detection Incentive (EDI) and Reimbursement Program sites do not have to perform a closure assessment.

Please Print or Type
Complete All Applicable Blanks

1. Date: December 9, 1992
2. DER Facility ID Number: Unregistered 3. County: Broward
4. Facility Name: Coral Creek Corporate Center
5. Facility Owner: Alma Joint Venture
6. Facility Address: State Road 7 and Sawgrass Expressway, Coconut Creek
7. Mailing Address: 4355 NW 128th St. Miami, FL 33054
8. Telephone Number: (305) 685-6591 9. Facility Operator: Hugh L. Russ, Jr.
10. Are the Storage Tank(s): **(Circle one or both)** A. Aboveground or (B. Underground)
11. Type of Product(s) Stored: Diesel
12. Were the Tank(s): **(Circle one)** A. Replaced (B. Removed) C. Closed in Place D. Upgraded (aboveground tanks only)
13. Number of Tanks Closed: Two 14. Age of Tanks: Unknown

Facility Assessment Information

Yes	No	Not Applicable	
☐	☒		1. Is the facility participating in the Florida Petroleum Liability Insurance and Restoration Program (FPLIRP)?
☒	☐		2. Was a Discharge Reporting Form submitted to the Department? If yes, When: December 7, 1992 Where: BCONRP
☒	☐		3. Is the depth to ground water less than 20 feet?
☒	☐	☐	4. Are monitoring wells present ~~around the storage system~~? If yes, specify type: ☒ Water monitoring ☐ Vapor monitoring
☐	☒	☐	5. Is there free product present in the monitoring wells or within the excavation?
☐	☐	☒	6. Were the petroleum hydrocarbon vapor levels in the soils greater than 500 parts per million for gasoline? Specify sample type: ☐ Vapor Monitoring wells ☐ Soil sample(s)
☒	☐	☐	7. Were the petroleum hydrocarbon vapor levels in the soils greater than 50 parts per million for diesel/kerosene? Specify sample type: ☐ Vapor Monitoring wells ☒ Soil sample(s)
☒	☐	☐	8. Were the analytical laboratory results of the ground water sample(s) greater than the allowable state target levels? (See target levels on reverse side of this form and supply laboratory data sheets)
☐	☐	☒	9. If a used oil storage system, did a visual inspection detect any discolored soil indicating a release?
☐	☒		10. Are any potable wells located within ¼ of a mile radius of the facility?
☒	☐		11. Is there a surface water body within ¼ mile radius of the site? If yes, indicate distance: 60 feet (on-site irrigation ditches)

Northwest District
160 Governmental Center
Pensacola, Florida 32501-5794
904-436-8300

Northeast District
7825 Baymeadows Way, Suite B 200
Jacksonville, Florida 32207
904-798-4200

Central District
3319 Maguire Blvd. Suite 232
Orlando, Florida 32803-3767
407-894-7555

Southwest District
4520 Oak Fair Blvd.
Tampa, Florida 33610-7347
813 623-5561

South District
2269 Bay St.
Fort Myers, Florida 33901-3998
813-332-6975

Southeast District
1900 S. Congress Ave. Suite A
West Palm Beach, Florida 33406
407-433-2650

DER Form # 17-761.900(6)
Form Title Closure Assessment Form
Effective Date December 10, 1990
DER Application No. _____ (Filled in by DER)

12. A detailed drawing or sketch of the facility that includes the storage system location, monitoring wells, buildings, storm drains, sample locations, and dispenser locations must accompany this form.
13. If a facility has a pollutant storage tank system that has both gasoline and kerosene/diesel stored on site, both EPA Method 602 and EPA Method 610 must be performed on the ground water samples obtained.
14. Amount of soils removed and receipt of proper disposal. NOT APPLICABLE
15. If yes is answered to any one of questions 5-9, a Discharge Reporting Form 17-761.900(1) indicating a suspected release shall be submitted to the Department within one working day.
16. A copy of this form and any attachments must be submitted to the Department's district office in your area and to the locally administered program office under contract with the Department within 60 days of completion of tank removal or filling a tank with an inert material.

– ALMA JOINT VENTURE

Hugh L. Rees PROJECT MANAGER — 12/14/92
Signature of Owner — Date

Roger L. Robl — 12/9/92
Signature of Person Performing Assessment — Date

Project Hydrogeologist
Title of Person Performing Assessment

State Ground Water Target Levels That Affect A Pollutant Storage Tank System Closure Assessment

State ground water target levels are as follows:

1. For gasoline (EPA Method 602):
   a. Benzene — 1 ug/l
   b. Total VOA — 50 ug/l
      - Benzene
      - Toluene
      - Total Xylenes
      - Ethylbenzene
   c. Methyl Test-Butyl Ether (MTBE) — 50 ug/l

2. For kerosene/diesel (EPA Method 610):
   a. Polynuclear Aromatic Hydrocarbons (PAHS) (Best achievable detection limit, 10 ug/l maximum)

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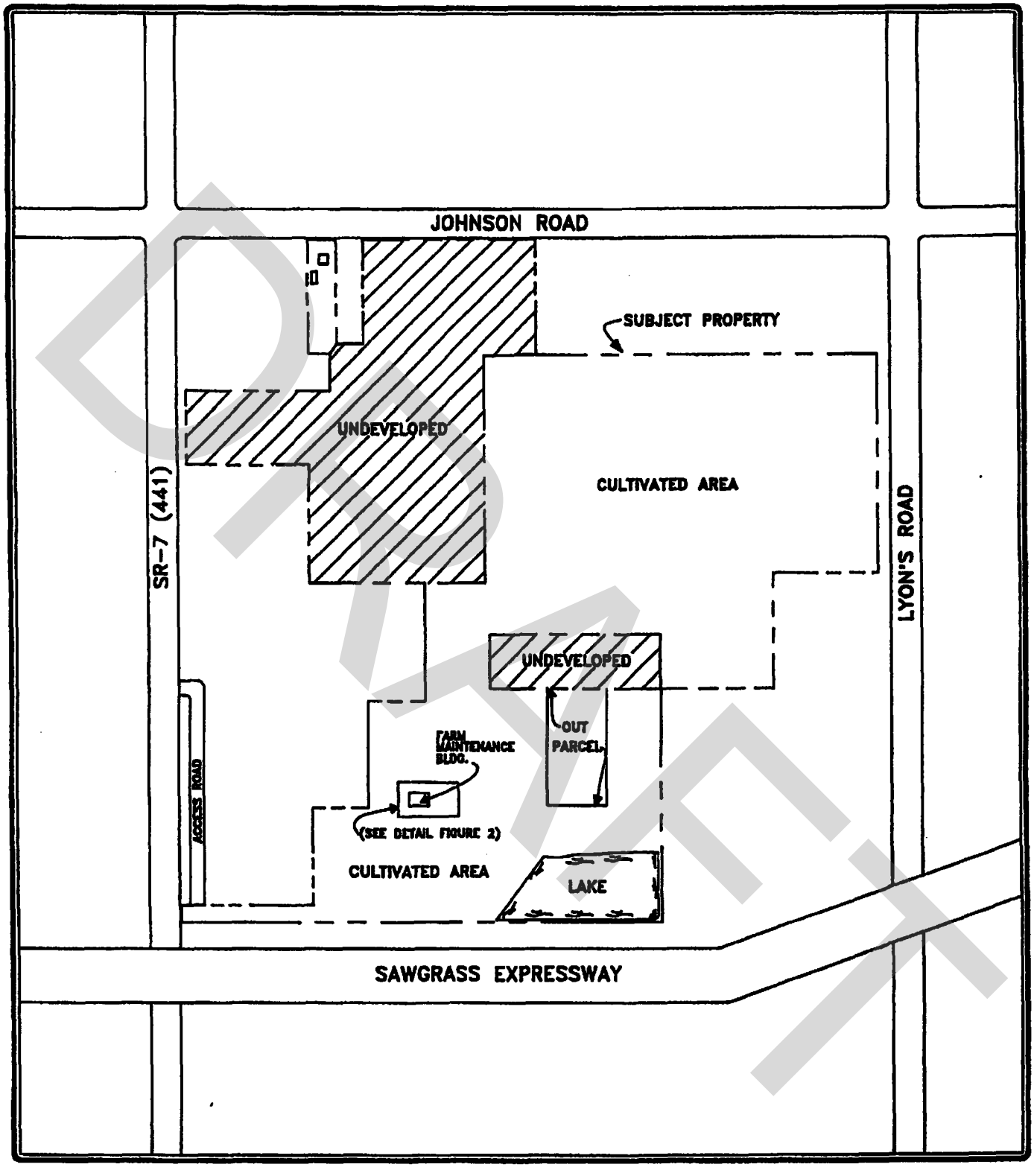

M&A	LEGEND: SCALE 0 750 FEET	NORTH
DATE: 12/08/92	SITE ADDRESS: CORAL CREEK CORPORATE CENTER, COCONUT CREEK, FLORIDA	DRN. BY: NDF
JOB NO: PE1-425	FIGURE 1. SITE LOCATION MAP	DWG. NO: P1425SIT

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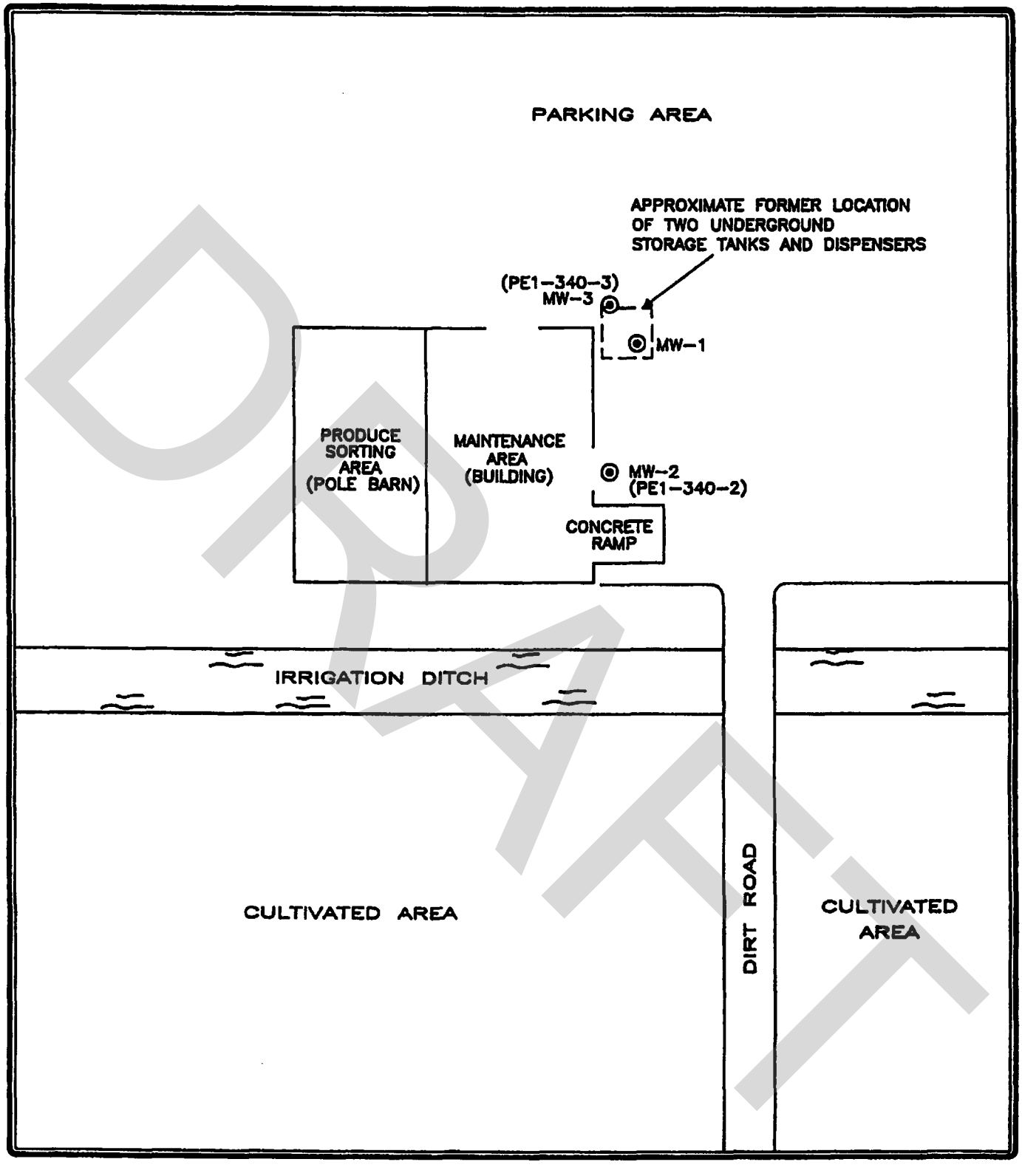

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MSA	LEGEND: ◎ – MONITORING WELL LOCATION SCALE 0 30 FEET	NORTH
DATE: 12/08/92	SITE ADDRESS: CORAL CREEK CORPORATE CENTER, COCONUT CREEK, FLORIDA	DRN. BY: NDF
JOB NO: PE1-425	FIGURE 2. DETAIL OF FARM MAINTENANCE AREA	DWG. NO: P1425MA

M&A **MISSIMER & ASSOCIATES, INC.**

Environmental and Groundwater Services

Suite 101
600 Sandtree Drive
Lake Park, Florida 33403

(407) 775-6612
Fax (407) 775-6615

RECEIVED
93 FEB -1 AM 11:27
STORAGE TANK
REGULATION

December 11, 1992

Mr. Sean McSweeney
Broward County Office of Natural Resource Protection
2995 N. Dixie Highway
Ft. Lauderdale, Florida 33334

RE: LETTER OF INTENT FOR CORAL CREEK CORPORATE CENTER SAWGRASS EXPRESSWAY AND STATE ROAD 7

Dear Mr. McSweeney:

Missimer & Associates, Inc., (M&A) has been contracted by Alma Joint Venture (AJV) to perform several tasks in response to the discovery of contamination near the former location of two underground storage tanks at the referenced site. Tasks include preparing a Discharge Reporting Form and a Closure Assessment Report, conducting initial remedial actions (IRA) to dispose of contaminated soil and preparation of a Broward County contamination assessment plan with recommendations for the next appropriate action.

The discharge reporting form has been submitted to the Broward County Office of Natural Resource Protection (BCONRP). The closure assessment report has been completed and you should receive that soon. The IRA will be scheduled and BCONRP will be notified as soon as the full extent of soil contamination is determined.

AJV does not qualify for state-funded reimbursement and will be financing the project tasks themselves. Please contact us if you have any questions or need additional information.

Sincerely,

Roger L. Robinet, P.G.
Project Hydrogeologist

RLR:rma

#5 c:\correa\pe1-4251.aj

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INITIAL REMEDIAL ACTION

31. Date Discharge was ceased. Unknown

32. Date Initial Remedial Action was started. January 7, 1993

33. Describe location(s) where FFP was recovered. N/A

34. Amount of FFP recovered. N/A

35. Describe how the FFP was recovered. N/A

35a. Transporter N/A License # N/A

35b. Disposal Method N/A

36. Describe location(s) where contaminated soil was excavated.

Contaminated soil was removed from two areas: petroleum-impacted soil from the northeast corner of the Farm Maintenance building; and arsenic-impacted soil from the area adjacent to the east side of the building. The petroleum-impacted soil excavation was approximately 15 feet by 12 feet and 3 feet deep (watertable depth). The arsenic-impacted soil excavation was approximately 23 feet by 18 feet and 3 feet deep (watertable depth).

37a. Have the contaminated soils been disposed of by incineration? Yes

37b. Transporter Mid-Florida Trucking License # Unknown; company is out of business

c. Disposal Facility TPS Technologies, 9401 Fairgrounds Road, West Palm Beach, FL 33411

37d. Describe how the contaminated soils have been treated.

The contaminated soils were treated by incineration.

DRAFT

ViroGroup
Air • Water • Soil
TECHNOLOGY

Missimer Division
ViroGroup, Inc.
600 Sandtree Drive
Suite 101
Palm Beach Gardens, FL 33403
Phone 407-775-6612
FAX 407-775-6615

March 16, 1993

Mr. Abu Canady
Broward County Office of Natural Resource Protection
2995 N. Dixie Highway
Ft. Lauderdale, Florida 33334

RE: INITIAL REMEDIAL ACTION AT CORAL CREEK CORPORATE CENTER; ALMA JOINT VENTURE

Dear Mr. Canady:

ViroGroup, Inc./Missimer Division submitted a closure assessment report to the Broward County Office of Natural Resource Protection (BCONRP) for the referenced facility on December 9, 1992, located as shown on Figure 1. The report identified an area of petroleum-impacted soil and arsenic-impacted soil, as shown on Figure 2, which required initial remedial action to remove soil.

The petroleum-impacted soil near the previously-excavated petroleum storage tanks was delineated by OVA readings as described in the closure assessment report. The area of arsenic-impacted soil was delineated with 16 laboratory analyses for arsenic by EPA Method 3050/7061. The location of arsenic concentrations in the soil are shown on Figure 3. The laboratory reports are included as Appendix A. A soil sample was also analyzed for pesticides and PCB's by EPA Method 8080. The results showed BDL and are included as Appendix B.

The two areas of impacted soil were excavated on January 7, 1993, and stockpiled separately on site. The location and depth of the two areas excavated are shown on Figure 4. Each stockpile of soil was estimated to be approximately 75 cubic yards. The stockpiles of soil were sand-bermed and covered with visquene to prevent further contamination. During the excavation process, a composite soil sample was collected from the area of arsenic-impacted soil and labeled sample P-1A. A second composite sample was collected from the soil after it had been stockpiled and was labeled P-1B. A composite soil sample was also collected from the excavation of the petroleum-impacted soil and labeled P-2. The laboratory reports are included as Appendix C.

Concentrations of TRPH in the 3 composite soil samples indicated a petroleum

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ViroGroup
Air • Water • Soil
TECHNOLOGY

product. One additional soil sample was collected from each stockpile and analyzed for pesticides and PCB's by EPA Method 8080, plus lead, and arsenic. The composite soil sample from the arsenic-impacted stockpile was labeled Pile 1. The composite soil sample from the petroleum-impacted stockpile was labeled Pile 2. All EPA Method 8080 were BDL.

The arsenic concentration from the Pile 1 sample was 14.2 milligrams per kilogram (mg/kg), which is above the clean fill standard of 10 mg/kg. A TCLP analysis for arsenic was performed on the sample labeled Pile 1. Results from this analysis showed BDL. The laboratory reports are included as Appendix D.

Based on the laboratory data from the two stockpiles, TPS Technologies, Inc., located in West Palm Beach, Florida, accepted the soil for disposal at their incineration facility. Manifests for disposal of the soil, which totaled 208.18 tons,is included as Appendix E.

In summary, through the use of OVA readings and laboratory analyses, we feel that the extent of contamination was delinated before the removal of any soil. Groundwater sampling conducted prior to the soil excavation was described in the closure assessment report submitted in December, 1992. Laboratory analyses on soil samples seem to indicate the source of contamination as a petroleum product. All samples analyzed for EPA Method 8080 were BDL. With the removal of all impacted-soils in January, 1993, we feel that the source of groundwater contamination has been eliminated. Thus, the potential for no further action at this facility is high.

If you have further questions or I can be of assistance, please call me at (407) 775-6612.

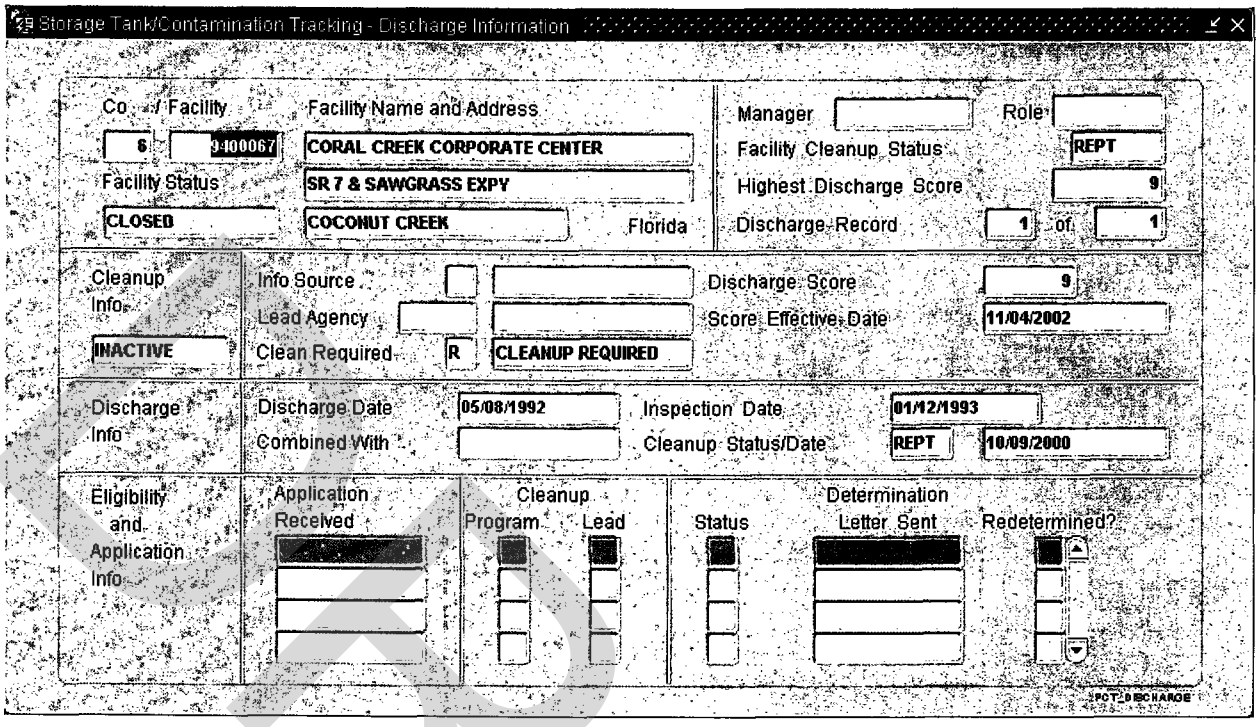
Sincerely,

Kurt E. Grunert
Project Manager

KEG:rma

Attachment

DRAFT



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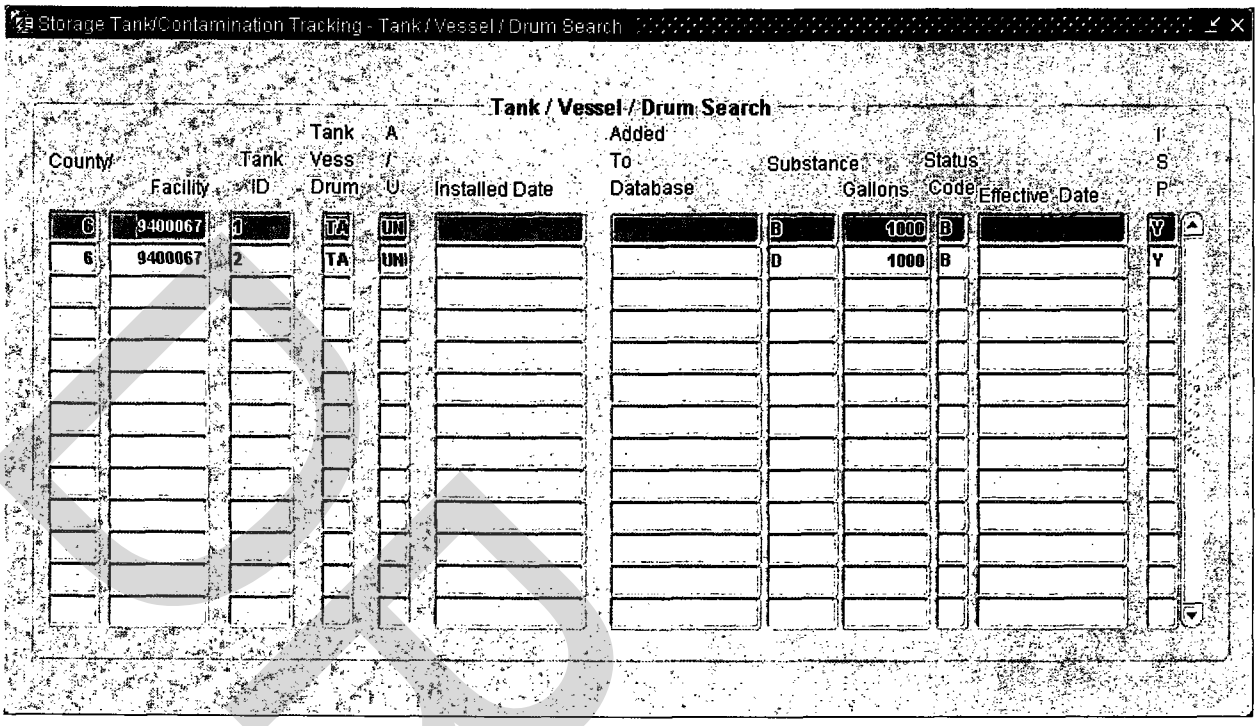

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Florida Department of Environmental Regulation
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DER Form # 17-761.900(2)
Form Title Storage Tank Registration Form
Effective Date December 10, 1990
DER Application No _____ (Filled in by DER)

RECEIVED DER
93 FEB -1 AM 11:23
STORAGE TANK REGULATION

Storage Tank Registration Form

Please Print or Type - Review Instructions Before Completing Form

1. DER Facility ID Number: 06/9400067 2. Facility Type: M
3. New Registration [X] New Owner Data [ ] Facility Revision [ ] Tank(s) Revision [ ]
4. County and Code of tank(s) location: _____ / 06

5. Facility Name: Coral Creek Corporate Center
Tank(s) Address: 0 ~~5847~~ SR. 7 & Sawgrass Expressway
City/State/Zip: Coconut Creek, FL 33073
Contact Person: Hugh L. Russ Telephone: (305) 685-6591
6. Financial Responsibility Type: _____

7a. Tank(s) Owner: Alma Joint Venture
Owner Mailing Address: 4355 NW 128th street
City/State/Zip: Miami, FL 33054
Contact Person: Hugh L. Russ Telephone: (____) _____

7b. New Owner Signature/Change Date: _____ / ____/____/____

8. Location (optional) Longitude: 80 ° 12 ' 05 " Latitude: 26 ° 18 ' 09 " Section____ Township____ Range____

Complete One Line For Each Tank At This Facility (Use Codes - See Instructions)

Complete 9 - 16 for tanks in use; 9 - 19 for tanks out of use

9	10	11	12	13	14	15	16	17	18	19
1	1000	B	xx/xx	4	C	B	Y	B		
2	1000	D	xx/xx	4	C	B	Y	B		

20. _____ Certified Contractor* DPR# _____ Department of Professional Regulation License Numbe

*For new tank installation or tank removal

To the best of my knowledge and belief all information submitted on this form is true, accurate and complete.

Abu Canady BCONRP — Print name & title of owner or authorized person
Abu Canady — Signature
1/13/93 — Date

Northwest District | Northeast District | Central District | Southwest District | South District | Southeast District 1900 S Congress Ave., Suite A

DRAFT

Florida Department of Environ
Twin Towers Office Bldg. • 2600 Blair Stone Road •

Post-it™ brand fax transmittal memo 7671 | # of pages ▸ 6

To Carol Nash	From Alfred Gomez
Co. DEP	Co. Broward DNRP
Dept. Storage Tanks	Phone # 305-519-1259
Fax # 904-922-4939	Fax #

Storage Tank Re

Please Print or Type - Review Instructions before Completing Form

1. DER Facility ID Number: None 06/9400067 2. Facility Type: M
3. New Registration [X] New Owner Data [ ] Facility Revision [ ] Tank(s) Revision [ ]
4. County and Code of tank(s) location: Broward 06 /

5. Facility Name: Coral Creek Corporate Center
Tank(s) Address: S.R. 7 & Sawgrass Expressway
City/State/Zip: Coconut Creek, FL. 33073
Contact Person: Hugh L. Russ Telephone: (305) 685-6541
6. Financial Responsibility Type:

7a. Tank(s) Owner: Alma Joint Venture
Owner Mailing Address: 4355 N.W. 128th Street
City/State/Zip: Miami FL. 33054
Contact Person: Hugh L. Russ Telephone: (___) ___

7b. New Owner Signature/Change Date: ___ / ___ / ___

8. Location (optional) Latitude: 80°12'05" Longitude: 26°18'09" Section___ Township___ Range___

Complete One Line For Each Tank At This Facility (Use Codes - See Instructions)

Complete 9 - 16 for tanks in use; 9 - 19 for tanks out of use

9	10	11	12	13	14	15	16	17	18	19
1	1000	B	xx/xx	U	C	B	Y	B		
2	1000	D	xx/xx	U	C	B	Y	B		

0. ___ Certified Contractor* DPR# ___ Department of Professional Regulation License Number*

*For new tank installation or tank removal

) the best of my knowledge and belief all information submitted on this form is true, accurate and complete.

Alfred E. Gomez BC DNRP
rint name & title of owner or authorized person

Alfred E. Gomez
Signature

1-5-94
Date

DRAFT

Site 5 BOCA #7838
6330 N SR 7
Facility ID: 9807767
Risk Rating: Medium

DRAFT

BROWARD ENVIRONMENTAL PROTECTION DEPARTMENT
2007

Discharge Report Form

07 SEP 17 AM 10:24

PLEASE PRINT OR TYPE

DRP Form # 62-761.900(1)
Form Title Discharge Report Form
Effective Date: July 11, 1998

Instructions are on the reverse side. Please complete all **applicable** blanks

1. **Facility ID Number** (if registered): 06/9807767 2. **Date of form completion:** 9/14/07

3. **General information**
Facility name or responsible party (if applicable): Shell Regency Lakes
Facility Owner or Operator, or Discharger: Motiva Enterprises LLC
Contact Person: Annette Dokken Telephone Number: (561) 433-2052 County: Broward
Facility or Discharger Mailing Address: 7765 Lake Worth Road, #319, Lake Worth, FL 33467
Location of Discharge (street address): 6330 State Road 7, Coconut Creek, FL 33073
Latitude and Longitude of Discharge (if known) 26:18:41.6355 N, 80:12:05.7081 W

4. **Date of receipt of test results or discovery of confirmed discharge:** 9/12/07 month/day/year

5. **Estimated number of gallons discharged:** Unknown

6. **Discharge affected:** [ ] Air [ ] Soil [✓] Groundwater [ ] Drinking water well(s) [ ] Shoreline [ ] Surface water (water body name)

7. **Method of discovery** (check all that apply)

[ ] Liquid detector (automatic or manual)	[ ] Internal inspection	[ ] Closure/Closure Assessment
[ ] Vapor detector (automatic or manual)	[ ] Inventory control	[✓] Groundwater analytical samples
[ ] Tightness test	[ ] Monitoring wells	[ ] Soil analytical tests or samples
[ ] Pressure test	[ ] Automatic tank gauging	[ ] Visual observation
[ ] Statistical Inventory Reconciliation	[ ] Manual tank gauging	[ ] Other

8. **Type of regulated substance discharged:** (check one)

[ ] Unknown	[ ] Used/waste oil	[ ] Jet fuel	[ ] Heating oil	[ ] New/lube oil
[✓] Gasoline	[ ] Aviation gas	[ ] Diesel	[ ] Kerosene	[ ] Mineral acid

[ ] Hazardous substance - includes CERCLA substances from USTs above reportable quantities, pesticides, ammonia, chlorine, and derivatives (write in name or Chemical Abstract Service (CAS) number)
[ ] Other

9. **Source of Discharge:** (check all that apply)

[ ] Dispensing system	[ ] Pipe	[ ] Barge	[ ] Pipeline	[ ] Vehicle
[ ] Tank	[ ] Fitting	[ ] Tanker ship	[ ] Railroad tankcar	[ ] Airplane
[✓] Unknown	[ ] Valve failure	[ ] Other Vessel	[ ] Tank truck	[ ] Drum

[ ] Other

10. **Cause of the discharge:** (check all that apply)

[ ] Loose connection	[ ] Puncture	[ ] Spill	[ ] Collision	[ ] Corrosion
[ ] Fire/explosion	[ ] Overfill	[ ] Human error	[ ] Vehicle Accident	[ ] Installation failure

[✓] Other Unknown

11. **Actions taken in response to the discharge:**

12. **Comments:** A Site Assessment will be initiated per Chapter 62-770, FAC.

13. **Agencies notified** (as applicable):

[ ] State Warning Point *1-800 320-0519*	[ ] National Response Center *1-800-424-8802*	[ ] Florida Marine Patrol *(800) 342-5367*	[ ] Fire Department.	[ ] DEP (district/person) [✓] County Tanks Program

14. **To the best of my knowledge and belief, all information submitted on this form is true, accurate and complete.**

Craig Hurst, Authorized Rep. GES, Inc.
Printed Name of Owner, Operator or Authorized Representative,

Signature of Owner, Operator or Authorized Representative,

DRAFT

Invalid RED

Entered 23 Oct 07

Revised 20 Jul 05

Storage Tank System Leak Autopsy Report Form

Version 5, 20 Jul 05. Please check all blocks that apply for the entire form and **PRINT LEGIBLY**

Initials ____
Date ____

Site Information

Facility Name	Facility ID Number	County	Owner/Operator Name	Discharge Date
Shell REGENCY LAKES	06/9807767 C	Broward #16	Motiva Enterprices	09/12/2007

System Information (At the Time of Release)

Tank

Tank Type	
☒	**Underground Storage Tank** (greater than 110 gallons containing pollutants or CERCLA Hazardous Substances)
☐	**Shop-fabricated Aboveground Storage Tank** (greater than 550 gallons containing pollutants)
☐	**Field-erected Aboveground Storage Tank** (greater than 50,000 gallons containing pollutants)

Tank installation date: 10/01/2005(Note if unknown)
Tank manufacturer name:XERXES (Note if unknown)
Piping installation date10/01/2005 (Note if unknown)
Piping manufacturer name:Double Wall Smith (Note if unknown)

System Information

Please check all blocks that apply for the entire form

USTs

	Material		Other Attributes		Ancillary Equipment
☐	Unprotected steel	☐	Sacrificial anodes	☒	Spill bucket
☐	Galvanized steel	☐	Impressed current system	☐	No spill containment
☐	Cathodic-protected steel	☐	Internal lining	☒	Overfill protection
☐	Fiberglass-coated steel	☐	Single wall	☐	No overfill protection
☒	Fiberglass	☒	Double wall (same material)	☐	Flow shut-off
☐	Other approved	☐	Double wall (different material)	☒	Ball check valve
☐	Polyethylene-jacketed	☐	Secondary containment with a liner	☐	Alarm system
☐	Concrete	☐	Other approved (tank bladders, etc.)	☐	Remote fill
☐	Unknown	☐	Compartmented	☐	Tight fill
☐	Other (Specify)	☐	External liner	☐	Other (specify)

ASTs

	Material		Other Attributes		Ancillary Equipment
☐	Steel	☐	Single wall	☐	Overfill protection
☐	Concrete	☐	Shop-fabricated	☐	No overfill protection
☐	Polyethylene	☐	Field-erected	☐	Flow shut-off
☐	Approved synthetic	☐	Synthetic liner beneath tank (SC)	☐	Single level alarm system
☐	Other approved	☐	Concrete beneath tank (SC)	☐	Gauges
☐	Cut and cover	☐	Double wall	☐	Other approved alarms
☐	Unknown	☐	Other approved secondary containment	☐	High & high-high level alarm system
☐	Other (specify)	☐	Secondary containment around pumps/valves	☐	Spill containment using an impervious dike field (for shop-fabricated tanks)
		☐	Internal secondary containment	☐	No spill containment
		☐	Impressed current system	☐	Other (specify)
		☐	Synthetic dike field liner	☐	
		☐	Concrete dike field liner	☐	
		☐	Other approved dike field liner	☐	
		☐	No dike field secondary containment		

DRAFT

Piping – AST or UST

	Material		Other Attributes		Ancillary Equipment
☐	Unprotected steel	☐	Sacrificial anodes	☒	Dispenser(s)
☐	Galvanized steel	☐	Impressed current system	☐	No dispenser(s)
☐	External coating	☐	Single wall	☒	Dispenser sump(s)
☐	Other metallic	☒	Double wall (same material)	☐	No dispenser sumps
☐	Cathodic-protected steel	☐	Double wall (different material)	☒	Piping sump(s)
☒	Fiberglass	☐	Double-wall within a piping chase	☐	No piping sumps
☐	Flexible thermoplastic Polyethylene	☐	Co-axial	☐	Single check valve beneath dispenser
☐	Semi-rigid high-density polyethylene	☐	Secondary containment with a synthetic liner	☐	Foot valves
☐	Fiberglass-coated steel	☐	Other approved secondary containment (box trench liner, etc.)	☐	Mechanical line leak detector (3-gallon/hr test)
☐	Other approved	☒	Pressurized	☒	Electronic line-leak detector (3-gallon/hr test)
☐	Unknown	☐	Not-pressurized except when in use	☐	Continuous line-leak detector (.2gph test)
☐	Other (specify)	☐	Suction	☐	Electronic line-leak detector (.2gph test)
		☐	Manifolded	☐	No line-leak detector
		☐	Bulk product	☐	Anti-siphon valves
		☐	Small diameter	☐	Block valves
		☐	Hydrant system	☐	Solenoid valves
		☐	Aboveground, no contact with soil	☐	Remote fill with spill protection
		☐	Over surface water	☐	Remote fill without spill protection
		☐	Other (Specify)	☐	Spill containment within dike field (shop-fabricated tanks)
				☐	Spill containment outside dike field (shop-fabricated tanks)
				☐	Other (Specify)

Leak Detection Method Used at the Facility

	UST		AST		Piping
☐	Interstitial monitoring using vacuum	☐	Interstitial monitoring using vacuum	☐	Interstitial monitoring using vacuum
☐	Interstitial monitoring using pressure	☐	Interstitial monitoring using pressure	☐	Interstitial monitoring using pressure
☐	Interstitial monitoring using a hydrostatic system	☐	Interstitial monitoring using a hydrostatic system	☐	Interstitial monitoring using a hydrostatic system
☒	Interstitial monitoring with sensors or probes	☐	Interstitial monitoring with sensors or probes	☒	Interstitial monitoring with sensors or probes
☒	Interstitial monitoring with visual inspections	☐	Interstitial monitoring with tank bottom visual inspections	☐	Interstitial monitoring with visual inspections
☐	Interstitial monitoring within an external UST liner system	☐	Visual inspections of the dike-field area	☐	Interstitial monitoring within an external liner system
☒	Electronic system with immediate notice to owner	☐	Electronic system with immediate notice to owner	☐	Electronic system with immediate notice to owner
☒	Groundwater monitoring wells	☐	Groundwater monitoring wells	☐	Groundwater monitoring wells
☐	Vapor monitoring wells	☐	Vapor monitoring wells	☐	Vapor monitoring wells
☐	Statistical Inventory Reconciliation	☐	Tracer technology	☐	Pressure tests (small diameter piping)
☒	Automatic Tank Gauge	☐	Cable systems	☐	Pressure tests (bulk product piping)
☐	Manual tank gauging	☐	Fiber-optic technologies	☐	External cable systems
☐	Other approved methods	☐	SPCC plans	☐	Tracer technology
☐	Unknown	☐	Tank shell monitoring system	☐	Mechanical line leak detectors
☐	None	☐	Other approved methods	☒	Electronic line leak detectors
☐		☐	Other (specify)	☐	Other approved methods

DRAFT

		☐	None	☐	None

Release Information

Date of receipt of test results or discovery of confirmed discharge: 09/14/2007 month/day/year	
Estimated number of gallons discharged: UNK	Latitude 26-18-41 Longitude 80-12-05 of the Discharge

Discharge affected

☐	Air	☐	Drinking water well(s)
☐	Soil	☐	Surface water
☒	Ground water	☐	Other____

Type of regulated substance discharged: (check one)

☒	Gasoline	☐	Bio-diesel
☐	Diesel	☐	Used/waste oil
☐	Kerosene	☐	New/lube oil
☐	Jet fuel	☐	Mineral acid
☐	Aviation gas	☐	Petroleum Contact Water
☐	Gasohol	☐	Pesticides
☐	Emergency Generator Diesel Fuel	☐	Chlorine Compounds
☐	Heating oil	☐	Ammonia Compounds
☐	Hazardous substance	☐	Petroleum Derivative Products
☐	Grades 5 & 6 Residual Oils	☐	Other
☐	Ethanol	☐	Unknown

Method of Discovery of the Discharge

☐	Leak detection methods>>>>>>	**>>>>>>If Leak Detection, specify method:**			
☐	Closure-in-place	☐	Manual tank gauging	☐	Mechanical LLD
☐	Removal	☐	Groundwater monitoring	☐	Electronic LLD
☐	Installation or upgrade	☐	Vapor monitoring	☐	Cable systems
☐	Property transfer	☐	SIR	☐	Tracer technologies
☐	Inventory reconciliation	☐	ATG	☐	Visual Inspection of USTs
☐	Visual	☐	Tank tightness testing	☐	Visual inspection of ASTs
☐	Olfactory	☐	External electronic sensors or probes	☐	Visual inspections of the dike-field area
☐	Water in UST	☐	Interstitial monitoring using vacuum	☐	Bulk product piping pressure tests
☐	Annual or regularly scheduled tank tightness testing	☐	Interstitial monitoring using pressure	☐	Small diameter piping pressure tests
☐	Tank or line tightness testing performed for other reasons_____	☐	Interstitial monitoring using a hydrostatic system	☐	Tank shell monitoring system
☐	UST internal inspection	☐	Interstitial monitoring *with sensors or probes*	☐	SPCC Plans
☐	ASTs– API 653 or 570 assessment	☐	Interstitial monitoring with visual inspections	☐	Fiber-optic systems
☐	Hydrostatic test	☐	Interstitial monitoring with AST bottom visual inspections	☐	Other approved methods
☐	Integrity test	☐	Interstitial monitoring within an external liner system	☐	Other (specify)_____
☒	Analytical tests or samples				
☐	Tracer or helium tests				
☐	Unknown				
☐	Other _____				

	Did the method of Leak Detection relied on for compliance purposes fail to detect the release? **(Y☐ N☐ U☒) If so, what was the method relied on for compliance purposes?** ____

DRAFT

Source of Discharge (if there are multiple sources, check all that apply, but explain in comments):

	USTs		Small Diameter Piping
☐	Single-wall UST that is not protected from corrosion	☐	Single-wall small diameter steel pipe that is not corrosion-protected
☐	Single-wall fiberglass UST	☐	Single-wall rigid fiberglass small diameter piping
☐	*Single-wall steel UST coated with fiberglass*	☐	*Single-wall small diameter flexible polyethylene piping*
☐	Single-wall internally-lined UST	☐	Single-wall small diameter semi-rigid polyethylene piping
☐	Single-wall steel UST with an impressed current cathodic protection system	☐	Single-wall small diameter corrosion-protected steel pipe
☐	Single-wall UST with sacrificial anodes	☐	Single-wall aboveground small diameter steel pipe
☐	Single-wall UST jacketed with polyethylene coating	☐	Double-wall rigid fiberglass small diameter piping
☐	Other-approved single-wall UST	☐	Double-wall rigid co-axial fiberglass small diameter piping
☐	Single-wall UST within an external liner system	☐	Double-wall small diameter flexible polyethylene piping
☐	Single-wall UST with an internal bladder system	☐	Double-wall small diameter semi-rigid polyethylene piping
☐	Double-wall fiberglass UST	☐	Double-wall small diameter corrosion-protected steel pipe
☐	Double-wall steel UST coated with fiberglass	☐	Single-wall small diameter piping protected by a liner
☐	Double-wall steel UST with sacrificial anodes		**Bulk Product Piping**
☐	Double-wall steel UST with an impressed current cathodic protection system	☐	Single-wall bulk product steel pipe that is not corrosion-protected
☐	Double-wall UST jacketed with polyethylene coating	☐	Single-wall rigid fiberglass bulk product piping
☐	UST with internal secondary containment	☐	Single-wall bulk product flexible polyethylene piping
☐	UST vent line	☐	Single-wall bulk product semi-rigid polyethylene piping
	UST equipment	☐	Single-wall bulk product corrosion-protected steel pipe
☐	UST submersible turbine pump	☐	Single-wall aboveground bulk product steel pipe
☐	UST electronic line leak detector	☐	Double-wall rigid fiberglass bulk product piping
☐	UST mechanical line leak detector	☐	Double-wall rigid co-axial fiberglass bulk product piping
☐	UST dispenser (Meter, filter, connections, or other)	☐	Double-wall bulk product flexible polyethylene piping
☐	UST flex-connector	☐	Double-wall bulk product semi-rigid polyethylene piping
☐	UST spill bucket	☐	Double-wall bulk product corrosion-protected steel pipe
☐	UST shear valves		**AST equipment**
☐	UST swing joints	☐	AST flex-connector
☐	UST dispenser sumps	☐	Valves (any type but shear)
☐	UST piping sumps	☐	AST spill containment system
☐	UST fill pipe	☐	AST Vents
☐	UST remote fill pipe	☐	Hydrant pit (AST systems)
☐	UST vapor riser pipe	☐	Pump (ASTs)
☐	UST vent lines	☐	AST shear valves
☐	UST vapor recovery	☐	AST piping sump
	ASTs	☐	AST dispenser sump
☐	Single-wall shop-fabricated steel AST within secondary containment		**Other Sources**
☐	Single-wall shop-fabricated non-steel AST within secondary containment	☐	Delivery vehicle
☐	Double-wall shop-fabricated steel AST	☐	Customer vehicle
☐	Double-wall shop-fabricated non-steel AST	☐	Barge or vessel
☐	Concrete-vaulted double-wall AST	☐	Steel pipeline not regulated by DEP
☐	Fixed-roof field-erected AST	☐	Non-regulated system (if so, file is invalid)
☐	Floating roof field-erected AST	☒	Unknown (if unknown, file is invalid) ✓
		☐	Other (Specify)___

Cause of the Discharge (if there are multiple causes, check all that apply, but explain in comments)

☐	*Loose Component (filter, pipe connection, bung)*	☐	Puncture
☐	Corrosion	☐	Mechanical or wear damage
☐	Improper installation	☐	Physical damage
☐	Material Failure (crack, split, etc.)	☐	Human error
☐	Material Incompatibility	☐	Vandalism or malicious intent
☐	Spill (other than customer)	☐	Fire/explosion
☐	Customer spill	☐	Weather
☐	Vehicle accident	☐	Natural disaster (sinkholes, earthquakes, etc.)
☐	Vehicle overfill	☒	Unknown ✓
☐	Tank overfill	☐	Other (Specify)_____

DRAFT

Release Identified by:

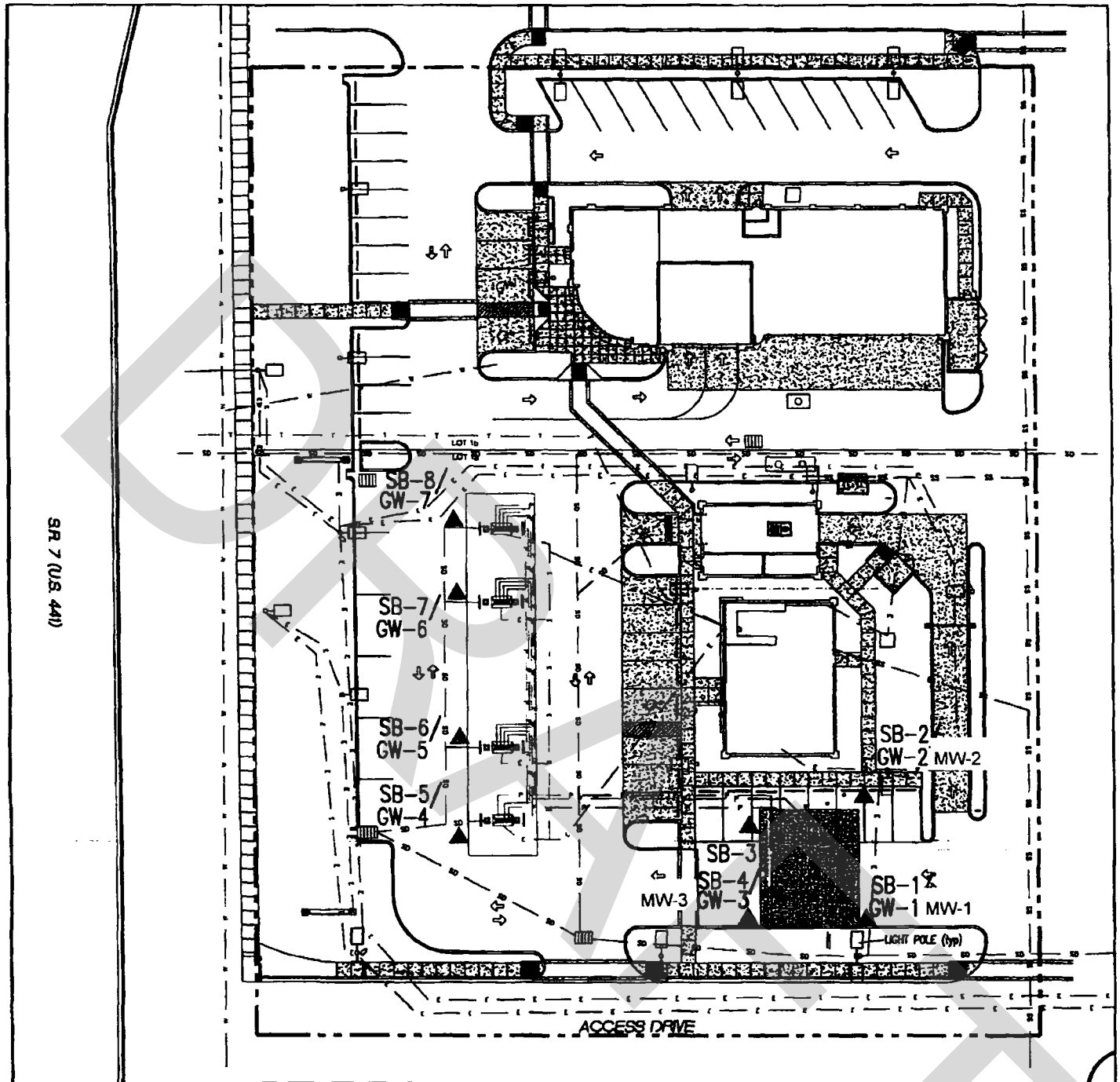
☐	Owner/Operator	☒	Service Contractor	☐	Local Government Inspector
☐	Third Party	☐	State Inspector	☐	Other (Specify)

Additional Information: (Attach Photos if available)

Groundwater analysis samples was taking and site assessment was initiated. Monitoring wells was drill around the tank farm and temporary wells. During Broward County EPD inspection wells around the tank farm was checked with disposable bailers.

SIGNATURE:_____ AFFLILIATION:Broward County EPD

DRAFT



LEGEND:

- ▲ SOIL BORING/GROUNDWATER SAMPLING LOCATION
- FPL LINE
- STORM SEWER
- SANITARY SEWER
- WATER LINE
- PRODUCT LINE
- TELEPHONE LINE

Poor Original

Original

N.T.S.

SITE MAP

DRAWN: D.S. CHECKED: M.E. DATE: JULY 2007	URS 7800 CONGRESS AVENUE, SUITE 200 BOCA RATON, FLORIDA 33487 PHONE: (561) 994-6900 FAX: (561) 994-6524	SHELL SERVICE STATION 6330 STATE ROAD 7 COCONUT CREEK, FLORIDA DATE: JULY 2007	FIGURE: 2

G:\024\Shell DD Project\192 South State Road\DRAWINGS\SITE MAP.dwg

Table 1

GROUNDWATER ANALYTICAL SUMMARY (BTEX/MTBE/TRPH)

Shell Service Station # 169443
6330 State Road 7
Coconut Creek, Broward County, Florida
FDEP Fac ID No. 06/9807767

Sample Identification	Date Sampled	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	TBA (ug/L)
GCTL		**1**	**40**	**30**	**20**	**20**	**1,400**
NADC		**100**	**400**	**300**	**200**	**200**	**14,000**
GW-1	21-Jun-07	**30.10**	2.25	<0.20	6.420	<0.26	66.10
GW-2	21-Jun-07	**87.29**	0.16	<0.20	1.270	8.03	66.20
GW-3	21-Jun-07	**11.41**	2.03	<0.20	4.280	<0.26	34.60
GW-4	21-Jun-07	<0.21	<0.16	<0.20	<0.23	<0.26	<2.00
GW-5	22-Jun-07	<0.21	<0.16	<0.20	<0.23	<0.26	<2.00
GW-6	22-Jun-07	<0.21	<0.16	<0.20	<0.23	<0.26	<2.00
GW-7	22-Jun-07	<0.21	<0.16	<0.20	<0.23	<0.26	<2.00
MW-1	30-Aug-07	**34.05**	10.05	<0.20	6.893	0.26	102
MW-2	30-Aug-07	**13.92**	1.114	<0.20	<0.23	<0.26	37.60
MW-3	30-Aug-07	**2.88**	<.16	<0.20	<0.23	<0.26	13.80

NOTES:

All results in ppb (ug/L).
MTBE - methyl-tert-butyl ether
TBA - tert-Butyl alcohol
TRPH - total recoverable petroleum hydrocarbons
GCTL - Groundwater Cleanup Target Level
NADC - Natural Attenuation Default Concentrations
ug/L=micrograms per liter
Samples collected from GW-1 through GW-7 were collected from temporary well points via no purge method
Samples collected from MW-1, MW-2, MW-3 were collected from permanent monitoring wells via FDEP SOP 001/01 FS2200

DRAFT

Groundwater
& Environmental Services, Inc.

6500 Northwest 12th Avenue • Suite 109 • Fort Lauderdale, Florida 33309 • (866) 565-7650 • Fax (866) 334-9883

DRAFT

September 14, 2007

Mr. Al Gomez
Environmental Protection Department
Pollution Prevention and Remediation Division
218 S.W. 1st Ave
Fort Lauderdale, Florida 33301

RE: Discharge Report Form
Shell Service Station #169443
6330 State Road 7, Coconut Creek, FL 33073
FDEP ID No.: 06/9807767

Dear Mr. Gomez:

Please find attached, a Discharge Report Form (DRF) for the above referenced facility. This DRF is being filed in response to laboratory analytical results of groundwater samples collected at the above referenced site. A summary of groundwater sampling results and a site map are also attached for your reference.

If you have any questions, please contact the undersigned at (866) 565-7650 ext. 3316.

Sincerely,
Groundwater & Environmental Services, Inc.

Ted Watabe
Project Manager

Enclosures

Cc: Annette Dokken (Shell Oil Products US)

Florida Department of Environmental Protection
Twin Towers Office Bldg. 2600 Blair Stone Road. Tallahassee, Florida 32399-2400
Division of Waste Management
Bureau of Petroleum Storage Systems

Storage Tank Facility Discharge Site Inspection

DRAFT

Facility Information

Facility ID:	9807767	County:	BROWARD	Inspection Date:	09/19/2007
Facility Name:	SHELL REGENCY LAKES			Facility Type:	C - Fuel user/Non-retail
	6330 N SR 7			# Of Inspected ASTs:	0
	COCONUT CREEK, FL 33073			USTs:	3
Latitude:	26° 18' 41.6355"			Mineral Acid Tanks:	0
Longitude:	80° 12' 5.7081"				
L/L Method:	DPHO				

Inspection Result

Result : Minor Out of Compliance

Description: Facility is out of compliance

No re-inspection needed for this Facility.

Financial Responsibility

Financial Responsibility: INSURANCE

Insurance Carrier: AMERICAN HOME ASSURANCE

Effective Date: 01/01/2007 Expiration Date: 01/01/2008

Signatures

TKBWNR - BROWARD COUNTY ENVIRONMENTAL PROTECTION DEPT
Storage Tank Program Office

(954) 519-1260
Storage Tank Program Office Phone Number

JOSE MARTINEZ
Inspector Name

Melinda Blanco
Facility Representative Name

Jose A Martinez
Inspector Signature

Melinda Blanco
Facility Representative Signature

System Tests

Test Name	Due Date	Completed Date	Result

Completed Tests

Annual Operability Test	08/01/2007	08/01/2006	Passed

Reviewed Records

Record Category	Record Type	From Date	To Date
Two Years	Monthly Maint. Visual Examinations and Results	09/08/2006	09/19/2007
Two Years	Storage Tank Fuel Inventory	09/08/2006	09/19/2007

Outstanding Violations

Significance Name: Minor

Rule Number(s): 62-761.600(1)(a)2.

Violation Text: Not installed, calibrated, operated, and maintained per manufacturer's specifications.

Explanation: The annual test and certification for the continuous automatic release detection equipment is not on file.

Corrective Action: Owner/operator should have the annual test and certification for the continuous automatic release detection equipment on file.

Comments:

09/19/2007 The annual test and certification for the continuous automatic release detection equipment is not on file.

Inspection Comments

09/19/2007 Groundwater analysis samples was taking and site assessment was initiated. Monitoring wells was drill around the tank farm and temporary wells. During Broward County EPD inspection wells around the tank farm was checked with disposable bailers.

Inspection Attachments

01. Monitoring wells around the tank farm was checked with disposible bailers.



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Florida Department of Environmental Protection
Bob Martinez Center, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400
Division of Waste Management
Bureau of Petroleum Storage Systems

Storage Tank Facility Inspection Cover Page Report

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District:	SOUTHEAST	Type:	Fuel user/Non-retail
County:	BROWARD	Status:	OPEN
Id:	9807767	Latitude:	26° 18' 41.6355"
Name:	SHELL REGENCY LAKES	Longitude:	80° 12' 5.7081"
	6330 N SR 7	LL Method:	DPHO
	COCONUT CREEK, FL 33073	LL Status:	REVIEWED
Contact:		Status Date:	03/10/2006
Phone:			

ACCOUNT OWNER INFORMATION

Name: MOTIVA ENTERPRISES LLC
PO BOX 22087 - CMS MS F-76
GREENSBORO,NC 27420-2087
Contact: VICKIE WALKER (281)874-1488 FAX: 720-889-1011
Phone: (303) 986-8011

Effective Date: 02/07/2006
Placard #/ Date: 284281 - 06/22/2007

TANK OWNER INFORMATION

Name: MOTIVA ENTERPRISES LLC
PO BOX 22087 - CMS MS F-76
GREENSBORO,NC 27420-2087
Contact: VICKIE WALKER (281)874-1488 FAX: 720-889-1011
Phone: (303) 986-8011

Effective Date: 02/07/2006

Tank	Size	Content	Installed	Placement	Status
1	20000	Unleaded Gas (B)	10/01/2005	UNDERGROUND	In Service(U)

Constructions	Pipings	Monitorings
(A) Ball check valve	(C) Fiberglass	(F) Monitor dbl wall tank space
(E) Fiberglass	(F) Double wall	(G) Electronic line leak detector
(I) Double wall	(J) Pressurized piping system	(L) Automatic tank gauging - USTs
(M) Spill containment bucket	(K) Dispenser liners	(1) Continuous electronic sensing
		(3) Electronic monitor pipe sumps
		(4) Visual inspect dispenser liners

Tank	Size	Content	Installed	Placement	Status
2	12000	Unleaded Gas (B)	10/01/2005	UNDERGROUND	In Service(U)

Constructions	Pipings	Monitorings
(A) Ball check valve	(C) Fiberglass	(F) Monitor dbl wall tank space
(E) Fiberglass	(F) Double wall	(G) Electronic line leak detector
(I) Double wall	(J) Pressurized piping system	(L) Automatic tank gauging - USTs
(M) Spill containment bucket	(K) Dispenser liners	(1) Continuous electronic sensing
		(3) Electronic monitor pipe sumps
		(4) Visual inspect dispenser liners

Tank	Size	Content	Installed	Placement	Status
3	10000	Vehicular Diesel (D)	10/01/2005	UNDERGROUND	In Service(U)

Constructions	Pipings	Monitorings
(A) Ball check valve	(C) Fiberglass	(F) Monitor dbl wall tank space
(E) Fiberglass	(F) Double wall	(G) Electronic line leak detector
(I) Double wall	(J) Pressurized piping system	(L) Automatic tank gauging - USTs
(M) Spill containment bucket	(K) Dispenser liners	(1) Continuous electronic sensing
		(3) Electronic monitor pipe sumps
		(4) Visual inspect dispenser liners

Insurance Documents

FR Type	Effective Date	Expiration Date	Company Name
INSURANCE	01/01/2007	01/01/2008	AMERICAN HOME ASSURANCE

Legacy Compliance Activity Information

Activity Code	Date Initiated	Date Complete	Results	Inspector	AST/UST Count	Project Description
TIN	12/06/2005		IN-COMPLIANCE	WICKE_C	3/0	COMPLIANCE ASSURANCE

Compliance Activity Information

Activity Code	Date Done	Results	Inspector	AST/UST Count	Project Name
Site Inspection Activity	02/27/2007	In Compliance	MARTINEZ_J	0/3	Annual Compliance Project
Site Inspection Activity	09/19/2007	Minor Out of Compliance	MARTINEZ_J	0/3	Annual Compliance Project
Site Inspection Activity	09/19/2007	Minor Out of Compliance	MARTINEZ_J	0/3	Discharge Project
Issue Non-Compliance Letter Activity	09/19/2007	Satisfied	MARTINEZ_J	/	Non-Compliance Project

DRAFT

Compliance Activity Information

Activity Code	Date Done	Results	Inspector	AST/UST Count	Project Name
Document Receipt Activity	09/17/2007	Satisfied	GOMEZ_A	/	Discharge Project

Open Violations

Insp Date	Viol#	Significance	Violation Text	Corrective Action
09/19/2007	1059	Minor	Not installed, calibrated, operated, and maintained per manufacturer's specifications.	Owner/operator should have the annual test and certification for the continuous automatic release detection equipment on file.

No Discharges found

End of Data for Facility # 9807767

DRAFT

DEP Form # 62-761.900(1)
Form Title Discharge Report Form
Effective Date: July 11, 1998

Discharge Report Form

07 SEP 17 AM 10:24

PLEASE PRINT OR TYPE

Instructions are on the reverse side. Please complete all **applicable** blanks

1. **Facility ID Number** (if registered): 06/9807767 2. **Date of form completion**: 9/14/07

3. **General information**
Facility name or responsible party (if applicable): Shell Regency Lakes
Facility Owner or Operator, or Discharger: Motiva Enterprises LLC
Contact Person: Annette Dokken Telephone Number: (561) 433-2052 County: Broward
Facility or Discharger Mailing Address: 7765 Lake Worth Road, #319, Lake Worth, FL 33467
Location of Discharge (street address): 6330 State Road 7, Coconut Creek, FL 33073
Latitude and Longitude of Discharge (if known) 26:18:41.6355 N, 80:12:05.7081 W

4. **Date of receipt of test results or discovery of confirmed discharge:** 9/12/07 month/day/year

5. **Estimated number of gallons discharged:** Unknown

6. **Discharge affected:** [ ] Air [ ] Soil [✓] Groundwater [ ] Drinking water well(s) [ ] Shoreline [ ] Surface water (water body name) _____

7. **Method of discovery** (check all that apply)

[ ] Liquid detector (automatic or manual)	[ ] Internal inspection	[ ] Closure/Closure Assessment
[ ] Vapor detector (automatic or manual)	[ ] Inventory control	[✓] Groundwater analytical samples
[ ] Tightness test	[ ] Monitoring wells	[ ] Soil analytical tests or samples
[ ] Pressure test	[ ] Automatic tank gauging	[ ] Visual observation
[ ] Statistical Inventory Reconciliation	[ ] Manual tank gauging	[ ] Other _____

8. **Type of regulated substance discharged:** (check one)

[ ] Unknown	[ ] Used/waste oil	[ ] Jet fuel	[ ] Heating oil	[ ] New/lube oil
[✓] Gasoline	[ ] Aviation gas	[ ] Diesel	[ ] Kerosene	[ ] Mineral acid

[ ] Hazardous substance - includes CERCLA substances from USTs above reportable quantities, pesticides, ammonia, chlorine, and derivatives (write in name or Chemical Abstract Service (CAS) number) _____
[ ] Other _____

9. **Source of Discharge:** (check all that apply)

[ ] Dispensing system	[ ] Pipe	[ ] Barge	[ ] Pipeline	[ ] Vehicle
[ ] Tank	[ ] Fitting	[ ] Tanker ship	[ ] Railroad tankcar	[ ] Airplane
[✓] Unknown	[ ] Valve failure	[ ] Other Vessel	[ ] Tank truck	[ ] Drum

[ ] Other _____

10. **Cause of the discharge:** (check all that apply)

[ ] Loose connection	[ ] Puncture	[ ] Spill	[ ] Collision	[ ] Corrosion
[ ] Fire/explosion	[ ] Overfill	[ ] Human error	[ ] Vehicle Accident	[ ] Installation failure

[✓] Other Unknown

11. **Actions taken in response to the discharge:** _____

12. **Comments:** A Site Assessment will be initiated per Chapter 62-770, FAC.

13. **Agencies notified** (as applicable):

[ ] State Warning Point *1-800 320-0519*	[ ] National Response Center *1-800-424-8802*	[ ] Florida Marine Patrol *(800) 342-5367*	[ ] Fire Department _____	[ ] DEP (district/person) [✓] County Tanks Program

14. **To the best of my knowledge and belief, all information submitted on this form is true, accurate, and complete.**

Craig Hurst, Authorized Rep. GES, Inc.
Printed Name of Owner, Operator or Authorized Representative.

Signature of Owner, Operator or Authorized Representative.

DRAFT

DATA ENTERED

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)

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

NOV 30 '05

Please review *Registration Instructions* before completing the form. #9807767

Please check all that apply	[√] New Registration	[ ] New Owner	[ ] New Tanks
	[ ] Facility Info Update/Correction	[ ] Owner Info Update/Correction	[ ] Tank Info Update/Correction

A. FACILITY INFORMATION

County: 06 Broward **DEP Facility ID:** 9807767

Facility Name: ~~Shell, Regency Lakes~~

Facility Address: ~~6330 N State Rd 7~~ City: ~~Coconut Creek~~ Zip: ~~33073~~

Facility Contact: _____ Business Phone: (____)_____

Facility Type(s): C NAICS Code: _____ Financial Responsibility: _____

24 Hour Emergency Contact: _____ **Emergency Phone:** (____)_____

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:	Facility - Responsible Person Relation Type:	Effective Date
Mail address:	**[√] Facility Account Owner (pays fees)**	
City, ST, Zip:	Facility Account Owner information must be provided when the	
Contact:	facility contains active (in-use) storage tanks on site.	
Telephone:	**STCM Account Number (if known)** 59118	
Identify other appropriate facility relationships for this party: [ ] Facility Owner/Operator [√] Property Owner [√] Storage Tank Owner		

Name:	Other owner, relationship type(s)	Effective Date
Mail address:	[ ] Facility Owner/Operator	
City, ST, Zip:	[ ] Property Owner	
Contact:	[ ] Storage Tank Owner	
Telephone:	[ ] Other:	

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	U	20,000		B			AEIM	CFJK	
2	T	U	12,000		B			AEIM	CFJK	
3	T	U	10,000		D			AEIM	CFJK	

Certified Contractor (performing tank installation or removal): B&M Construction DBPR License No.: PCC-056868

Registration Certification: **To the best of my knowledge and belief, all information submitted on this form is true, accurate, and complete.**

Charles J. Wicke, Broward County EPD — **Printed Name & Title**

Charles J. Wicke — **Signature**

10/12/05 — **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

DRAFT

Site 6 Hampton Inn and Suites
5740 N State Road 7
Facility ID: 9814296
Risk Rating: Low

DRAFT

Site 7 Marathon – Winston Park
5425 Lyons Rd
Facility ID: 9801357
Risk Rating: Medium

DRAFT

Florida Department of Environmental Regulation
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Form Title: Storage Tank Registration Form
Effective Date: December 10, 1990
DER Application No. _____ (Filled in by DER)

12345

Storage Tank Registration Form

63432

Please Print or Type - Review Instructions Before Completing Form

1. DER Facility ID Number: 06 9801357 2. Facility Type: A
3. New Registration ☒ New Owner Data ☐ Facility Revision ☐ Tank(s) Revision ☐
4. County and Code of tank(s) location: Broward / 06

5. Facility Name: BP/Amoco #14091
Tank(s) Address: 5425 Lyons Rd.
City/State/Zip: Coconut Creek, FL, 33073
Contact Person: Rolando Bethart Telephone: (____) _____
6. Financial Responsibility Type: FPLIRP

7a. Tank(s) Owner: BP/Amoco Oil Company Acct # 778
Owner Mailing Address: 600 Corporate Dr. - Ste 500
City/State/Zip: Ft. Lauderdale, FL 33334
Contact Person: Rolando Bethart Telephone: (954) 938-2700

7b. New Owner Signature/Change Date: _____ / ___/___/___

8. Location (optional) Latitude: ___°___'___" Longitude: ___°___'___" Section 7 Township 48 Range 42

Complete One Line For Each Tank At This Facility (Use Codes - See Instructions)

Complete 9 - 16 for tanks in use; 9 - 19 for tanks out of use

9	10	11	12	13	14	15	16	17	18	19
1	10m	B	12/98	U	EIm NP	FKN	FGL			
2	10m	B	12/98	U	EIm NP	FKN	FGL			
3	10m	B	12/98	U	EIm NP	FKN	FGL			

20. Bobby L. Moore
Certified Contractor*

DPR# PCC 045039
Department of Professional Regulation License Number*

*For new tank installation or tank removal

To the best of my knowledge and belief all information submitted on this form is true, accurate and complete.

Mark Pawles - Consultant _____ 3-11-99
Print name & title of owner or authorized person Signature Date

DRAFT

STORAGE TANK REGISTRATION CODES LIST

(#2) FACILITY TYPE CODES

A. Retail/fuel seller
B. Residence
C. Non-retail/fuel user not seller
D. Inland bulk petroleum storage
E. Industrial plant
F. Federal government
G. State government
H. Local, city government
I. County government
J. Collection station
K. Bulk chemical storage
L. Chemical user facility
M. Agricultural facility
N. Indian land
T. Bulk product facility
V. Marine fueling facility
Z. Other: _____

(4) County code
(5) Facility information

(#6) FINANCIAL RESPONSIBILITY CODES

A. State Program - Third Party Liability/State contractor (FPLIPA/AIG)
B. State Program - Third Party Liability/Self insurance with other carrier; other federal financial responsibility mechanism.
C. Other coverage meeting federal financial responsibility requirements.
D. None

(7) Owner information
(8) Tank site information
(9) Tank number
(10) Tank size

(#11) CONTENT CODES

A. Leaded gasoline
B. Unleaded gasoline
C. Gasohol
D. Vehicular diesel
E. Aviation gasoline
F. Jet Fuel
G. Diesel; emergency generator
H. Diesel; generator or pump
K. Kerosene
L. Waste oil
M. Fuel oil; on site heating
N. Fuel oil; distribution
O. New/lube oil
Q. Pesticide
R. Ammonia compound
S. Chlorine compound
T. Hazardous substance
U. Mineral acid
V. Bunker 'C' residual oil
W. Petroleum additive (pollutant)
Y. Unknown
Z. Other: _____

(12) Tank installation date
(13) Tank placement (U or A)

(#14) TANK CONSTRUCTION CODES

A. Overfill protection - ball check valve
B. Interior lined or lined bottom steel
C. Bare, painted, or asphalted steel
D. Unknown
E. Fiberglass
F. Fiberglass-clad steel, composite
G. Cathodically protected & coated steel, sacrificial anode
H. Cathodically protected & coated steel, impressed current
I. Double-walled
J. Secondary containment, synthetic liner
K. Secondary containment, concrete
L. Compartmented
M. Spill containment
N. Overfill protection - flow shut off
O. Overfill protection - tight fill
P. Impervious berm
Q. Earth berm
R. Impervious base
S. Earth base
T. Small use tank
U. Field erected tank
W. Tank built on supports
X. Concrete
Y. Other: _____
Z. Department approved alternate

(#15) PIPING CONSTRUCTION CODES

A. Aboveground, not in contact with soil
B. Galvanized or unprotected metal
C. Fiberglass
E. Cathodically protected steel
F. Double-walled
G. Secondary containment
H. Airport hydrant piping
I. Suction piping system
J. Pressurized piping system
K. Dispenser liners
L. Bulk product transfer lines
Y. Unknown
Z. Department approved alternate

(#16) LEAK DETECTION METHODS

A. Vapor monitoring
B. Groundwater monitoring
E. Interstitial monitoring, tank liners
F. Interstitial monitoring, double-walled tank
G. Piping/in-line leak detectors with automatic shut-off
H. Piping/in-line flow restrictors
I. Not required, see rule for exemptions
J. Interstitial monitoring, piping liners
K. Interstitial monitoring, double-walled piping
L. Automatic tank gauging system
M. Manual tank gauging system
Y. Unknown
Z. Department approved alternate

(#17) TANK STATUS/DISPOSAL CODES

*A. Properly closed in place: underground tank filled with sand or concrete; aboveground tank properly closed
*B. Removed from the site . . *A or B: Closure Assessment required
F. Unmaintained storage tank - tank not in use and not properly disposed; or tank discovered abandoned
T. Temporary out-of-service
U. In-service

(18) Gallons left
(19) Status date
(20) Specialty Contractor

DRAFT

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: 9801357 County: BROWARD Inspection Date: 07/05/2019
Facility Type: A - Retail Station
Facility Name: MARATHON-WINSTON PARK #612 # of Inspected ASTs: 0
5425 LYONS RD USTs: 3
COCONUT CREEK, FL 33073-2827 Mineral Acid Tanks: 0
Latitude: 26° 17' 54.6241"
Longitude: 80° 11' 12.899"
LL Method: DPHO

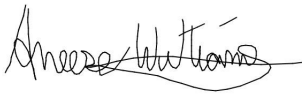
Inspection Result:

Result: Minor Out of Compliance

Signatures:

TKBWNR - BROWARD COUNTY ENVIRONMENTAL PROTECTION DEPT (954) 519-1259

Storage Tank Program Office and Phone Number

Aneese J Williams	Tyron Beasley
Inspector Name	**Representative Name**
	
Inspector Signature **Principal Inspector** **BROWARD COUNTY ENVIRONMENTAL PROTECTION DEPT**	**Representative Signature** **Technician** **South Florida Sales & Service Inc**

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: LETTER OF CREDIT

Insurance Carrier:

Effective Date: 05/31/2019 Expiration Date: 05/31/2020

DRAFT

Facility ID: 9801357

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
Annual Operability Test	09/25/2018	Passed	07/26/2019	09/25/2019	Overfill testing done by Hy-Tech Petroleum
Annual Operability Test	09/25/2018	Passed	07/26/2019	09/25/2019	Annular Space testing done by Hy-Tech Petroleum
Annual Operability Test	09/25/2018	Passed	07/26/2019	09/25/2019	Liquid Level Probe testing done by Hy-Tech Petroleum
Annual Operability Test	09/25/2018	Passed	07/26/2019	09/25/2019	Done by Hy-Tech Petroleum
Annual Inline Leak Detector Test	09/25/2018	Passed	07/26/2019	09/25/2019	Done by Hy-Tech Petroleum

Reviewed Records

Record Category	Record Type	From Date	To Date	Reviewed Record Comment
Two Years	Monthly Maint. Visual Examinations and Results	06/07/2017	06/14/2019	
Other	Current Local Government Permit, If Applicable	01/01/2018	07/05/2019	County License is current until 12/31/2019
Two Years	Certificate of Financial Responsiblity	05/31/2019	07/05/2019	Letter of Credit is current until 5/31/2020

New Violations

Type: Violation

Significance: Minor

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Rule:	62-761.700(3)(b), 62-761.700(3)(b)1., 62-761.700(3)(b)2.
Violation Text:	Spill containment, sumps, and interstices not accessible. Water/regulated substances not timely removed. Petroleum contact water not properly managed.
Explanation:	Water was in the premium fill/vapor recovery sump (High Liquid Alarm) Water in excess of one inch in depth, or any regulated substance collected in secondary containment, spill containment systems, or in piping sumps and dispenser sumps shall be removed within 72 hours of discovery and be either reused or properly disposed.
Corrective Action:	Remove water from premium fill/vapor recovery sump and send a picture to me at aneesewilliams@broward.org

Type:	Violation
Significance:	Minor
Rule:	62-761.700(1), 62-761.700(1)(a), 62-761.700(1)(a)1., 62-761.700(1)(a)2.
Violation Text:	Storage tank system has a not repaired component which has or could cause a release or discharge.
Explanation:	Test button on the overfill acknowledged is missing.
Corrective Action:	Replace the test button on the overfill acknowledged and send a picture to me at aneesewilliams@broward.org

Type:	Violation
Significance:	Minor
Rule:	62-761.700(3), 62-761.700(3)(a), 62-761.700(3)(a)1., 62-761.700(3)(a)1.a., 62-761.700(3)(a)1.b., 62-761.700(3)(a)1.c., 62-761.700(3)(a)1.d., 62-761.700(3)(a)1.e., 62-761.700(3)(a)1.f., 62-761.700(3)(a)2.
Violation Text:	Failure to conduct required periodic containment and interstitial integrity testing.
Explanation:	No Spill Bucket Testing and no Piping & Dispenser Sump Periodic Testing. Periodic testing of storage tank system components shall occur according to the following schedule: Single-walled spill buckets - by January 11, 2018, and every 12 months thereafter. Double-walled spill buckets - by October 13, 2018, and every 3 years thereafter.
Corrective Action:	Once the spill bucket testing is complete send the results to me at aneesewilliams@broward.org

Type:	Violation
Significance:	Minor
Rule:	62-761.700(3)(b), 62-761.700(3)(b)1., 62-761.700(3)(b)2.
Violation Text:	Spill containment, sumps, and interstices not accessible. Water/regulated substances not timely removed. Petroleum contact water not properly managed.

DRAFT

Explanation:	Water in all spill buckets.
Corrective Action:	Remove water from all spill buckets and send pictures to me at aneesewilliams@broward.org

Type:	Violation
Significance:	Minor
Rule:	62-761.700(1), 62-761.700(1)(a), 62-761.700(1)(a)1., 62-761.700(1)(a)2.
Violation Text:	Storage tank system has a not repaired component which has or could cause a release or discharge.
Explanation:	All fill piping, all vapor recovery piping and STP's had major corrosion.
Corrective Action:	Removed corroded areas on all fill piping, vapor recovery piping and STP's. Apply anti-corrosion paint, send pictures to me at aneesewilliams@broward.org

Site Visit Comments

07/05/2019

Facility has (3) 10,000 gallon double wall underground storage tanks: one premium and two regular.
All sump manway covers were securely closed and in good condition.
The sump piping was inspected.
All STP sump piping is in good condition.
All STP's had major corrosion.
Remove corrosion from the STP’s and apply anti-corrosion paint.
Both regular sumps had a little water.
Water was in the premium fill/vapor recovery sump.
Remove water from premium fill/vapor recovery sump.
Test boots are pulled back from fitting to allow product to flow back into sump.
Verified sensors were in place and at upright position.
All spill buckets were inspected, facility has double-walled spill buckets.
Petroleum Contact Water (PCW) was inside all fill spill buckets.
Water or any regulated substances collected in these storage tank system components shall be removed and be either reused or properly disposed of.
During the summer months it rains a lot, after a rain event I would recommend getting someone to pump the water out.
The fills were inspected.
Fill manway covers are color coded per API standards.
Fill cap gaskets were in place and secure.
All fill piping had major corrosion.
Remove corrosion from all fill piping and apply anti-corrosion paint.
Tank has a ball float valve, which is an overfill protection device that is required on all underground storage tanks to prevent an incident, release, or discharge from a storage tank during filling of the storage tank system.
Vapor recovery poppet caps were in place, cap gasket is secure and fits tightly onto the dry break poppet.
The spring loaded valve is working properly.

DRAFT

All vapor recovery piping had major corrosion.
Remove corrosion from all vapor recovery piping and apply anti-corrosion paint.
Observed the vent piping and vent caps are on.
There is a overfill alarm and alarm acknowledgement switch by the vents.
Test button on the overfill acknowledged is missing.
Replace the test button on the overfill acknowledged.
The UST's are monitored by a Veeder-Root TLS-350 system.
Veeder-Root is used for automatic tank gauging.
System Status Report and Liquid Status Test had a High Liquid Alarm.
The display had a L3 High Liquid Alarm.
Visual and audible alarms are functioning properly.
The Veeder-Root monitors the interstitial space on the tanks, the STP sumps, and the dispenser liners.
The dispensers and dispenser liners were inspected.
Liners were all free of liquid and in good condition.
Sensors were mounted in the correct positions.
Dispenser sump piping looked good.
Shear valves are properly anchored.
The hoses are in good condition, no tears or holes.
Nozzles and breakaways are in good condition.

Hy-Tech Petroleum conducted the following tests: operability, line leak and overfill.
All testing passed.

No Spill Bucket Testing and no Piping & Dispenser Sump Periodic Testing.
Periodic testing of storage tank system components shall occur according to the following schedule: Single-walled spill buckets - by January 11, 2018, and every 12 months thereafter. Double-walled spill buckets - by October 13, 2018, and every 3 years thereafter. Once the testing is complete send the results to me at aneesewilliams@broward.org

Reviewed cover page.
Reviewed site diagram.
Verified Coordinates.
County license is current.
FDEP placard is current.
Monthly visual inspections are available.
Certificate of Financial Responsibility Insurance is current.
Part F (Alternative Procedure), Part H & P are available.

Class A Owner Training Certification is available.
Class B Maintenance Training Certification is available.
Class C Operator Training Certification is available.

Report sent to
Rick Herweh
rick@apecgas.com

Ray Harrell
ray@pumptechs.net

DRAFT

Facility ID: 9801357

Inspection Photos

Added Date 07/22/2019

Facility Photo



Added Date 07/22/2019

Tank Area



Added Date 07/22/2019

Regular 1 STP Sump



Added Date 07/22/2019

Regular 1 Fill/Vapor Recovery Sump



DRAFT

Facility ID: 9801357

Added Date 07/22/2019

Regular 2 STP Sump



Added Date 07/22/2019

Regular 2 Fill/Vapor Recovery Sump



Added Date 07/22/2019

Premium STP Sump



Added Date 07/22/2019

Premium Fill/Vapor Recovery Sump



DRAFT

Facility ID: 9801357

Added Date 07/22/2019

Vents



Added Date 07/22/2019

Overfill Test Button Missing



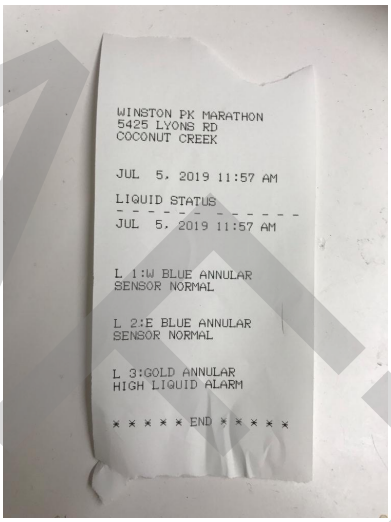
Added Date 07/22/2019

7/5/2019 Veeder-Root: High Liquid Alarm



Added Date 07/22/2019

7/5/2019 Liquid Status: High Liquid Alarm

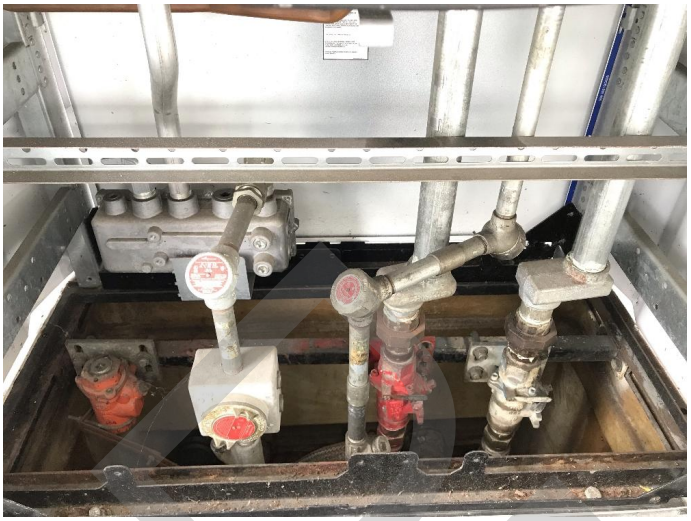


DRAFT

Facility ID: 9801357

Added Date 07/22/2019

Dispenser



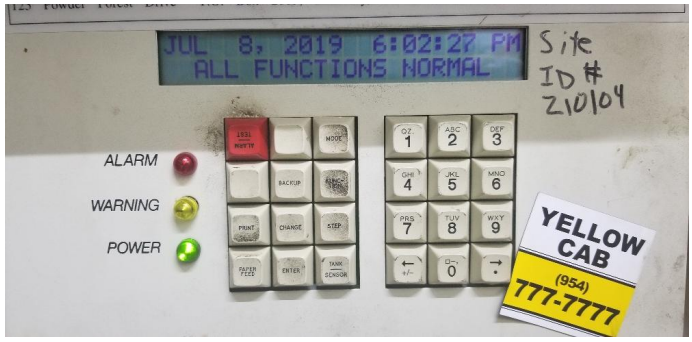
Added Date 07/22/2019

7/8/2019 Liquid Status: All Normal



Added Date 07/22/2019

7/8/2019 Veeder-Root: All Functions Normal



DRAFT

Environmental Protection and Growth Management Department
ENVIRONMENTAL AND CONSUMER PROTECTION DIVISION
One North University Drive, Suite 102, Plantation, FL 33324
954-519-1260 · FAX 954-519-1494

WARNING NOTICE

WARNING NOTICE NUMBER: WRN19-0333

Pursuant to Chapter 27 of the Broward County Code of Ordinances ("Code" or "BCC"), the Environmental Protection and Growth Management Department (Department) has the authority and duty to control and regulate activities and facilities which adversely affect the air, water, soil and other natural resources of Broward County.

The Department certifies that it has just grounds to believe that on or about July 05, 2019, at the location below, the following Respondent(s) was/were in violation of the sections of the Broward County Code identified in each count:

Location: 5425 LYONS RD
Coconut Creek, FL 33073

COUNT 1: Respondent: Automated Petroleum and Energy Company, Incorporated

Violated Section 27-306(c) , BCC, which states:

"... The construction and operation of a storage tank facility shall be in accordance with the applicable provisions of the Broward County Local Amendments to the Florida Fire Prevention Code, the Florida Building Code, the most current version of Chapters 62-252, 62-761, and 62-762, F.A.C., this article, and the code ..."

By: Failing to demonstrate compliance with the most current version of Rule 62-761.700(1)(a)2. F.A.C. by failing to perform repairs on a storage tank component that is discovered to have an operational or structural problem that could potentially result in a discharge or release. Specifically, for the underground storage tank systems, the piping and risers in the STP sumps and fill pipes showed signs of corrosion and deterioration.

Corrective Action:

Respondent shall repair and/or replace all corroded and deteriorated piping and risers in the STP sumps and fill pipes for the underground storage tank systems. Upon completion, Respondent shall email pictures confirming completed repairs to Aneese Williams at aneesewilliams@broward.org and shall maintain records of the repairs in the facility's records.

Correct within 30 day(s) of service of this notice.

DRAFT

Accordingly, the Respondent(s) is/are hereby advised to correct and respond to the aforesaid allegation(s) within the time period identified in each count above, or by advising the Department of any circumstances which it believes make this/these allegation(s) inapplicable.

Failure to comply with this Warning Notice may result in the issuance of a Notice of Violation and a Notice of Hearing to Assess a Civil Penalty. Pursuant to a Notice of Violation, a Civil Penalty in an amount up to $15,000.00 per violation per day may be levied by a Hearing Examiner.

Your response or any questions concerning this Warning Notice should be directed to Aneese Williams at phone: (954) 818-7531, FAX: (954) 765-4804 or email: ANEESEWILLIAMS@broward.org.

Issued By: Aneese Williams, Environmental and Consumer Protection Division
Phone: (954) 818-7531 FAX: (954) 765-4804 Email: ANEESEWILLIAMS@broward.org
Issued Date: 09/18/2019

Registered Agent/Mailed To:

William D. McKnight
(for Automated Petroleum and Energy Company, Incorporated)
805 Arrowhead Lane
Brandon, FL 33510
RRR: 7016 0600 0001 0886 7844

DRAFT

Site 8 Coconut Creek – Shell Station
6135 Lyons Road
Facility ID: 9805503
Risk Rating: Medium

DRAFT

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 Complaint Site Inspection Report

Facility Information:

Facility ID: 9805503 County: BROWARD Inspection Date: 09/05/2017
Facility Type: A - Retail Station
Facility Name: COCONUT CREEK-SHELL-STATION # of Inspected ASTs: 0
6135 LYONS RD USTs: 3
COCONUT CREEK, FL 33073 Mineral Acid Tanks: 0
Latitude: 26° 18' 17.0437"
Longitude: 80° 11' 9.5279"
LL Method: DPHO

Inspection Result:

Result: In Compliance

Signatures:

TKBWNR - BROWARD COUNTY ENVIRONMENTAL PROTECTION DEPT (954) 519-1259

Storage Tank Program Office and Phone Number

Clearvens C JeanBaptiste	Nazarena Rosales
Inspector Name	**Representative Name**
	
Inspector Signature **Principal Inspector** **BROWARD COUNTY ENVIRONMENTAL PROTECTION DEPT**	**Representative Signature**

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 15, 2018. For further information please visit: http://www.dep.state.fl.us/waste/categories/tanks/pages/op_train.htm

Financial Responsibility:

Financial Responsibility: INSURANCE
Insurance Carrier: NAUTILUS INSURANCE COMPANY
Effective Date: 11/23/2016 Expiration Date: 11/23/2017

DRAFT

Completed System Tests

Type	Date Completed	Results	Reviewed	Next Due Date	Comment
Annual Operability Test	09/07/2016	Passed	04/14/2017	09/07/2017	From Discovery Tank Testing
Annual Inline Leak Detector Test	09/07/2016	Passed	04/14/2017	09/07/2017	From Discovery Tank Testing

DRAFT

Site Visit Comments

09/05/2017

Arrived on site for a scheduled re-inspection

Found contractors on site from World Petroleum Inc and Petroleum Equipment Sales and Services Inc.

Companies on site conducting fuel testing

Contractor informed me that customers had complain about water in their gas tanks, and as such both contractors on site to clean the fuel

Fuel was removed from tanks and cleaned by World Petroleum Inc

Representative from Petroleum equipment sales and services said that no water found in tanks, sumps or dispensers.

I was informed that facility requested a total of 4 fuel samples but no water found

Made request for sampling report

Report to
Nazarena Rosales
(areamanager@chamblissgroup.com)

Inspection Photos

Facility ID: 9805503

Added Date 09/05/2017

tank



Added Date 09/05/2017

open sumps



Added Date 09/05/2017

truck



Added Date 09/05/2017

petroleum

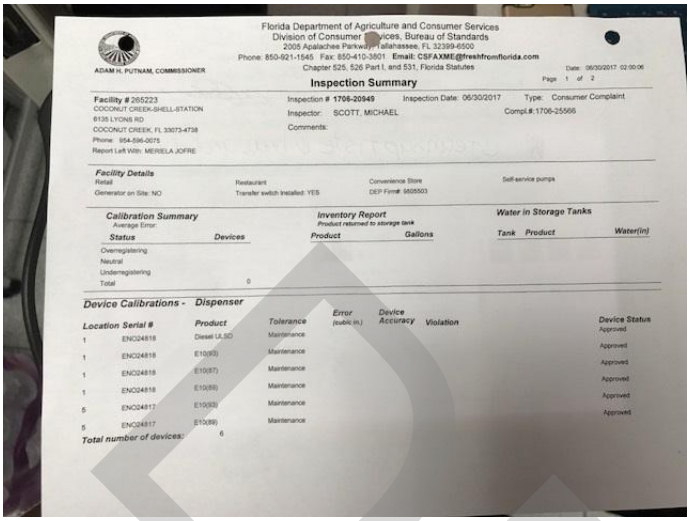


DRAFT

Facility ID: 9805503

Added Date 09/05/2017

Dept Agriculture inspection



Florida Department of Agriculture and Consumer Services
Division of Consumer Services, Bureau of Standards
2005 Apalachee Parkway, Tallahassee, FL 32399-6500
Phone: 850-921-1545 Fax: 850-410-3501 Email: CSFAXME@freshfromflorida.com
Chapter 525, 526 Part I, and 531, Florida Statutes

ADAM H. PUTNAM, COMMISSIONER

Date: 06/30/2017 02:00:06

Inspection Summary

Page 1 of 2

Facility # 265223
COCONUT CREEK-SHELL-STATION
6135 LYONS RD
COCONUT CREEK, FL 33073-4738
Phone: 954-596-2075
Report Left With: MERELA JOFRE

Inspection # **1706-20949** Inspection Date: 06/30/2017 Type: Consumer Complaint
Inspector: SCOTT, MICHAEL Compl.#:1706-25566
Comments:

Facility Details
Retail | Restaurant | Convenience Store | Self-service pumps
Generator on Site: NO | Transfer switch Installed: YES | DEF Firm#: 9805503

Calibration Summary
Average Error:

Status	Devices
Overregistering	
Neutral	
Underregistering	
Total	0

Inventory Report
Product returned to storage tank

Product	Gallons

Water in Storage Tanks

Tank	Product	Water(in)

Device Calibrations - Dispenser

Location	Serial #	Product	Tolerance	Error (subtr. in.)	Device Accuracy	Violation	Device Status
1	ENO24818	Diesel ULSD	Maintenance				Approved
1	ENO24818	E10(93)	Maintenance				Approved
1	ENO24818	E10(87)	Maintenance				Approved
1	ENO24818	E10(89)	Maintenance				Approved
5	ENO24817	E10(93)	Maintenance				Approved
5	ENO24817	E10(89)	Maintenance				Approved

Total number of devices: 6

DRAFT

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 Compliance Assistance Site Inspection Report

Facility Information:

Facility ID: 9805503 County: BROWARD Inspection Date: 06/26/2017
Facility Type: A - Retail Station
Facility Name: COCONUT CREEK-SHELL-STATION # of Inspected ASTs: 0
6135 LYONS RD USTs: 3
COCONUT CREEK, FL 33073 Mineral Acid Tanks: 0
Latitude: 26° 18' 17.0437"
Longitude: 80° 11' 9.5279"
LL Method: DPHO

Inspection Result:

Result: Minor Out of Compliance

Signatures:

TKBWNR - BROWARD COUNTY ENVIRONMENTAL PROTECTION DEPT (954) 519-1259

Storage Tank Program Office and Phone Number

Clearvens C JeanBaptiste	Mariela Jofre (coconutcreek@chamblissgroup.
Inspector Name	**Representative Name**
Inspector Signature **Principal Inspector** **BROWARD COUNTY ENVIRONMENTAL PROTECTION DEPT**	**Representative Signature**

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 15, 2018. For further information please visit: http://www.dep.state.fl.us/waste/categories/tanks/pages/op_train.htm

Financial Responsibility:

Financial Responsibility: INSURANCE
Insurance Carrier: NAUTILUS INSURANCE COMPANY
Effective Date: 11/23/2016 Expiration Date: 11/23/2017

DRAFT

Completed System Tests

Type	Date Completed	Results	Reviewed	Next Due Date	Comment
Annual Inline Leak Detector Test	09/07/2016	Passed	04/14/2017	09/07/2017	From Discovery Tank Testing
Annual Operability Test	09/07/2016	Passed	04/14/2017	09/07/2017	From Discovery Tank Testing

Existing Violations

Type: Violation

Rule: 62-761.700(1)(c)1.

Violation Text: Spill containment, dispenser liners and piping sumps accessible; water and regulated substances not removed.

Explanation: Liquid found in sumps, spill buckets and dispenser buckets

Corrective Action: Please removed liquid found in sumps, spill buckets and dispenser buckets

Site Visit Comments

06/26/2017

The piping sumps were inspected, liquid found
Unable to verify if test boots are pulled back
Unable to verify sensors if in place and at upright position
The spill buckets are in place, liquid found
Poppets inspected, liquid found
The UST are monitored by a Veeder Root TLS 350 system;
Technician on site repairing veeder root system
The display reads normal
Status report printed by operator
Visual and audible alarm are functioning properly.
The Veeder Root system monitors the sumps and tank annular spaces

Inspection Photos

DRAFT

Facility ID: 9805503

Added Date 06/26/2017

liquid in sump



Added Date 06/26/2017

liquid



Added Date 06/26/2017

liquid



Added Date 06/26/2017

opening sump



DRAFT

Facility ID: 9805503

Added Date 06/26/2017

veeder root



DRAFT

DEP Form # 62-761.900(6)
Form Title Incident Notification Form
Effective Date: July 13, 1998

Incident Notification Form

PLEASE PRINT OR TYPE

Instructions are on the reverse side. Please complete all applicable blanks

1. Facility ID Number (if registered): 9805503 2. Date of form completion: 9/29/14

3. General information

Facility name: Coconut Creek Shell
Facility Owner or Operator: Coconut Creek Shell LLC
Contact Person: Hunter Chambliss Telephone number: (954) 938-7211 County: Broward
Facility mailing address: 221 Commercial Blvd, Lauderdale-by-the-Sea, FL 33308
Location of incident (facility street address): 6135 Lyons Road, Coconut Creek, FL 33073
Latitude and Longitude of incident (If known.)

4. Date of Discovery of incident: _____ month/day/year

5. Monitoring method that indicates a possible release or an incident: (check all that apply)

[ ] Liquid detector (automatic or manual)
[ ] Vapor detector (automatic or manual)
[ ] Tightness test
[ ] Pressure test
[ ] Breach of integrity test
[ ] Visual observation
[ ] Groundwater samples
[ ] Monitoring wells
[ ] Internal inspection
[ ] Odors in the vicinity
[ ] Automatic tank gauging
[ ] Manual tank gauging
[ ] Closure
[ ] Inventory control
[ ] Statistical Inventory Reconciliation
[ ] Groundwater analytical samples
[ ] Soil analytical tests or samples
[ ] Other Hydrostatic Test

6. Type of regulated substance stored in the storage system: (check one)

[✓] Diesel
[ ] Gasoline
[ ] Heating oil
[ ] Used\waste oil
[ ] Aviation gas
[ ] Jet fuel
[ ] New/lube oil
[ ] Kerosene
[ ] Other _____
[ ] Hazardous substance - includes CERCLA substances, pesticides, ammonia, chlorine, and their derivatives, and mineral acids.
(write in name or Chemical Abstract Service (CAS) number)

7. Incident involves or originated from a: (check all that apply)

[ ] Tank [ ] Unusual operating conditions [ ] Dispensing equipment [ ] Pipe [✓] Overfill protection device
[ ] Piping sump [ ] Release detection equipment [ ] Secondary containment system [ ] Other [ ] Dispenser Liners
[ ] Loss of >100 gallons to an impervious surface other than secondary containment [ ] Loss of >500 gallons within secondary containment

8. Cause of the incident, if known: (check all that apply)

[ ] Overfill (<25 gallons) [ ] Spill (<25 gallons) [ ] Theft [ ] Corrosion
[ ] Faulty Probe or sensor [ ] Human error [✓] Installation failure [ ] Other

9. Actions taken in response to the incident: There is no detectible release of product. We are waiting on a quote to saw-cut the concrete around all 3 fills and upgrade the spill buckets to double wall. Handex will be the environmental consultant and Great Dane Petroleum will be the contractor.

10. Comments: The Diesel spill bucket failed a hydrostatic test; the other two spill buckets passed. We have had no product loss through our daily inventory reconcilliation.

11. Agencies notified (as applicable):

[ ] Fire Department. [ ] Local Program [✓] DEP (district/person)

12. To the best of my knowledge and belief, all information submitted on this form is true, accurate, and complete.

Hunter Chambliss
Printed Name of Owner, Operator or Authorized Representative

Signature of Owner, Operator or Authorized Representative.

DRAFT

Site 9 McFarlane Trucking 03-2I-0279
Deerfield Toll Plaza Eastbound on Sawgrass
Facility ID: 9807332
Risk Rating: Low

DRAFT

Florida Department of

Memorandum **Environmental Protection**

TO: Lorenzo Fernandez
Broward County Department of Planning & Environmental Protection

FROM: Richard Bradford RB
Bureau of Petroleum Storage Systems

DATE: May 23, 2005

SUBJECT: Contaminated Site Referral from the Bureau of Emergency Response
McFarlane Trucking
Deerfield Toll Plaza Eastbound on Sawgrass Expressway
Deerfield Beach, Broward County
BER Incident No. 03-2I-0279
FDEP Facility ID# 069807332

Attached to this memorandum is a referral from the Bureau of Emergency Response (BER) of a new petroleum contaminated site not associated with a registered storage tank for your office to manage. In accordance with the January 4, 1999 memorandum from Mike Sole, the BER has administered this site since their initial response to the discharge incident. The BER procedures attached to Mike Sole's memo were revised on January 5, 2000.

The BER Incident Report indicates that contamination may be remaining on-site, and therefore the BER has referred the site to the Division of Waste Management for further action. Because this site is in your contracted local program with which we have a contract for Chapter 62-770, Florida Administrative Code (FAC), cleanup administration services, we are forwarding the SRR to your office for appropriate action.

Please issue a letter to the responsible party notifying them of their responsibility to comply with the timeframe requirements of Chapter 62-770, FAC, for submittal of a Site Assessment Report to your office, and also that further correspondence on this matter should be addressed directly to your office. The FDEP Facility ID Number above has been established for this contaminated site for contamination tracking purposes. Enclosed is the tracking information already entered in the Bureau's database (STCM) for you to update as necessary.

If you have any questions, please contact me at (850) 245-8906.

Attachment

cc: Grace Rivera, Bureau of Petroleum Storage Systems
File

RB/

DRAFT

YORK
1310 Cross Creek Circle
Suite B
Tallahassee, Fl 32301-3728

Petroleum Cleanup Program
Division of Waste Management
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Facility Locations - Comparison of DEP and DOH Data

Distance between DOH and DEP locations (ft. 1461.45

DEP Data

DEP Facility ID: 9807332

DESCRIPTION: Emergency Respon
STATUS: CLOSED
NAME: MCFARLANE TRUCKING 03-2I-0279
ADDRESS1: DEERFIELD TOLL PLAZA E BOUND ON SAWGRASS
CITY: DEERFIELD BEACH
ZIP5:
COUNTY: BROWARD
OPERATOR:

DEP Longitude: -80.17590777778
DEP Latitude: 26.304930277778
DEP location method: DPHO
NREQ_count: 0
Collection Date: 12/19/2005
Reference: HARN

Facility Cleanup Status: REPT
Status Effective Date: 5/22/2005

LAST_PBC_Report:
LAST_SR_Report:
LAST_RAP_Report:
LAST_SA_Report:
_LAST_PBC_Report:
LAST_RA_Report:
Number_discharges: 1
CURRENT_SCORE: 29

DOH Data

DIVISION OF Environmental Health

DOH Facility ID: 9807332
Facility Name: MacFarland Trucking
STREET: Deerfield Toll Plaza Eastbound
CITY: DEERFIELD BEACH
ZIPCODE: 33442
Type of Facility: PETROLEUM

DOH Longitude: -80.17147
DOH Latitude: 26.305377
DOH location method: DGPS
DOH GPS Date: 11/30/2005

Selection Criteria

Fac_ID: 9807332
DOH CORRECT ☐ DEP CORRECT ☐ OTHER CORRECT ☐
correct latitude: 0
NO CORRECT ☑
correct longitude: 0
Incorrect Facility ID ☐
Review Status
Vehicular Spill ☑ Deliverable completed ☑
Selection Based on OCULUS Documents ☐
Insufficient OCULUS Documentation ☑
Selection Based on Address ☐

There are no useful documents in the file. DEP's point is located west of the east-bound toll booth. DOH's point is located in the median east of the east-bound toll booth.

6/4/2009

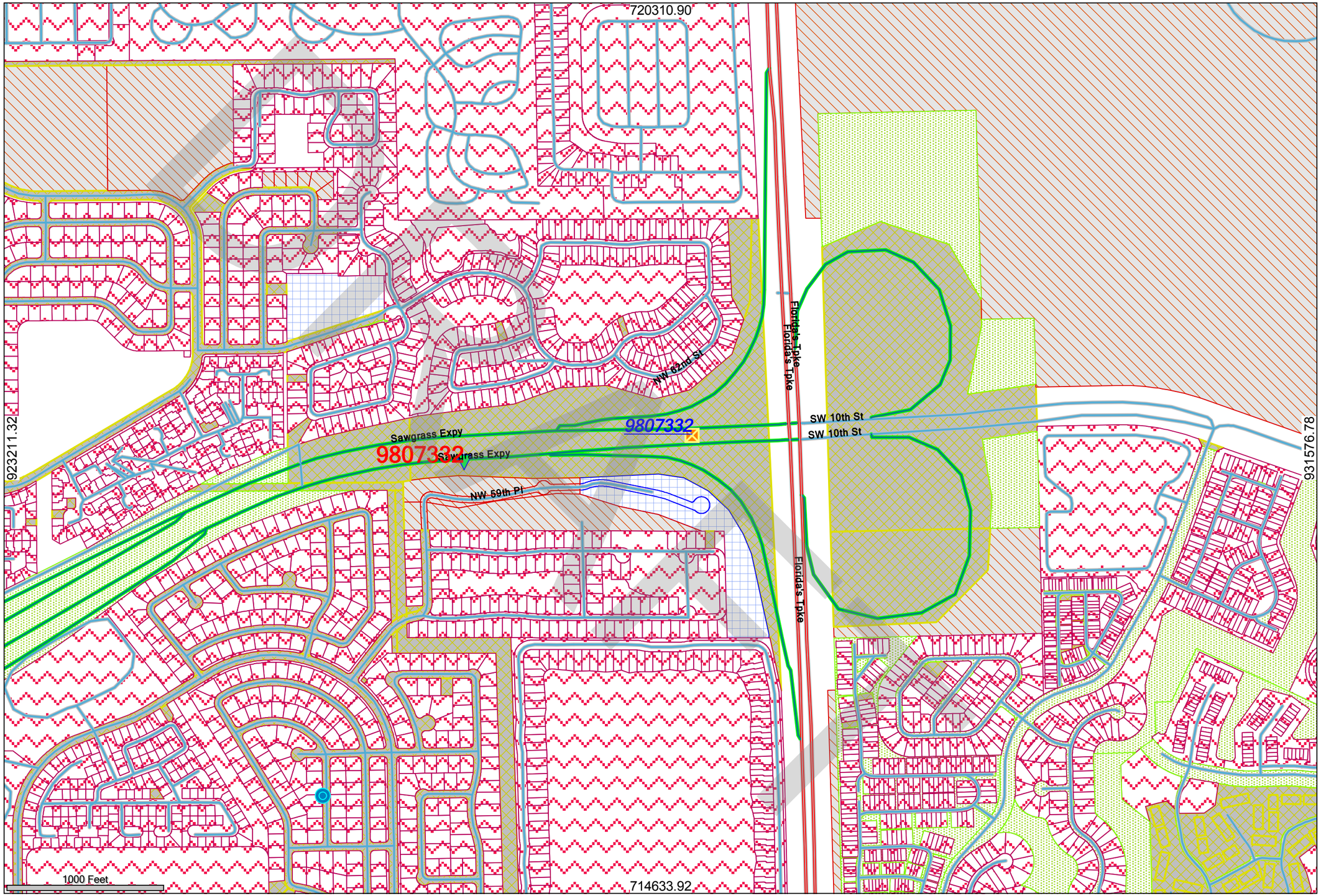
Are any Locations in Gulf?:

County

- StcmFacilites.shp
- DOH_Facilities.shp
- Wells.shp
- railroads.shp

roads08.shp
- Alley
- Highway
- Local
- Secondary
- Trail

Broward.shp
- Agricultural
- Commercial
- Government
- Industrial
- Institutional
- Miscellaneous
- Residential
- Unknown



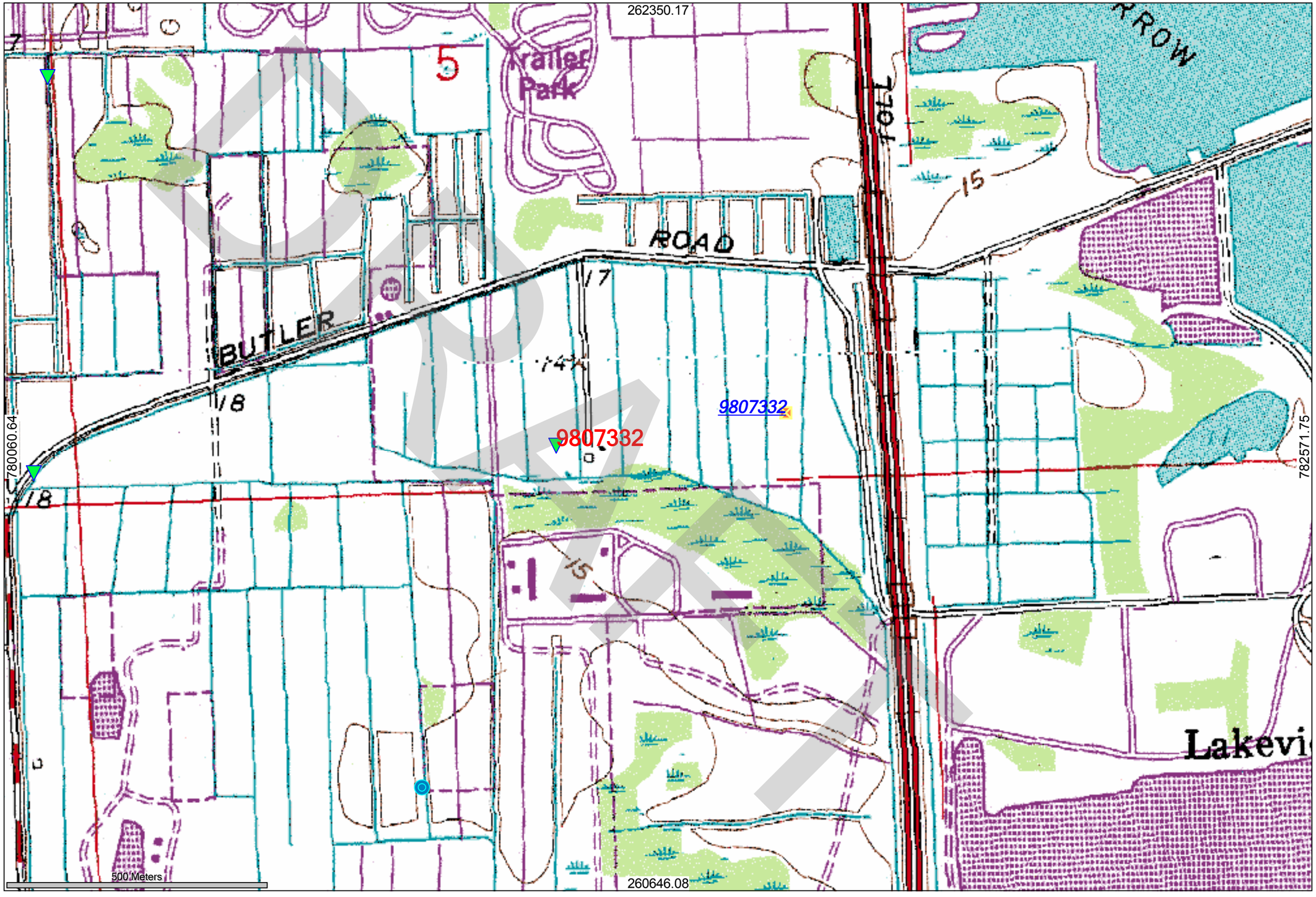
Scale 1:7203 | Map Units: Feet | Date: 6/4/2009

View 1

stcmfacs.shp

doh_fac.shp

wells.shp



Scale 1:7094

Map Units: Meters

Date: 6/4/2009

Search Results

Storage Tanks
4 total

Storage Tanks_Restricted (0)

Result/Page 5 Sort Facility-Site ID Refresh Add to Favorites Showing Result(s)1 to 4

Operations View Select Turn Previewer on Pages: 1

Profile	Facility-Site ID	Document Date	Received Date	Document Type	Document Subject	County	Facility Type
Administrative	9807332	05-23-2005	05-23-2005	MISCELLANEOUS		BROWARD	STCM FACILIT
Administrative	9807332	05-23-2005	05-23-2005	MISCELLANEOUS		BROWARD	STCM FACILIT
Discovery_Compliance	9807332	11-30-2005	11-30-2005	POTABLE WELL SURVEY-SAMPLING		BROWARD	STCM FACILIT
Administrative	9807332	01-11-2006	01-11-2006	SCORING CHECKLIST-PACKET		BROWARD	STCM FACILIT

DRAFT

Department of Environmental Protection

Jeb Bush
Governor

Twin Towers Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Colleen M. Castille
Secretary

May 23, 2005

Mr. Jose McFarlane
McFarlane Trucking
2375 Oak Creek Circle
Melbourne, FL 32935

Subject: Referral Notification
BER Incident No. 03-2I-0279
Deerfield Toll Plaza Eastbound on Sawgrass Expressway
Deerfield Beach, Broward County
FDEP Facility ID# 069807332

Dear Mr. McFarlane:

In correspondence dated June 18, 2004 (received February 4, 2005), the Bureau of Emergency Response (BER) referred to our office the diesel spill that occurred on September 26, 2003 at the above-referenced location because available data indicated that the contamination from this incident had not been abated. The Bureau of Petroleum Storage Systems requested a Source Removal Report (SRR) to verify the BER's conclusions; to date, the SRR has not been received. Therefore, we are referring this incident to the Broward County Department of Planning & Environmental Protection, with which we have a contract for administering cleanup requirements of Chapter 62-770, Florida Administrative Code, for follow-up.

If you have any questions, please contact me at (850) 245-8906 or at the letterhead address, Mail Station 4530.

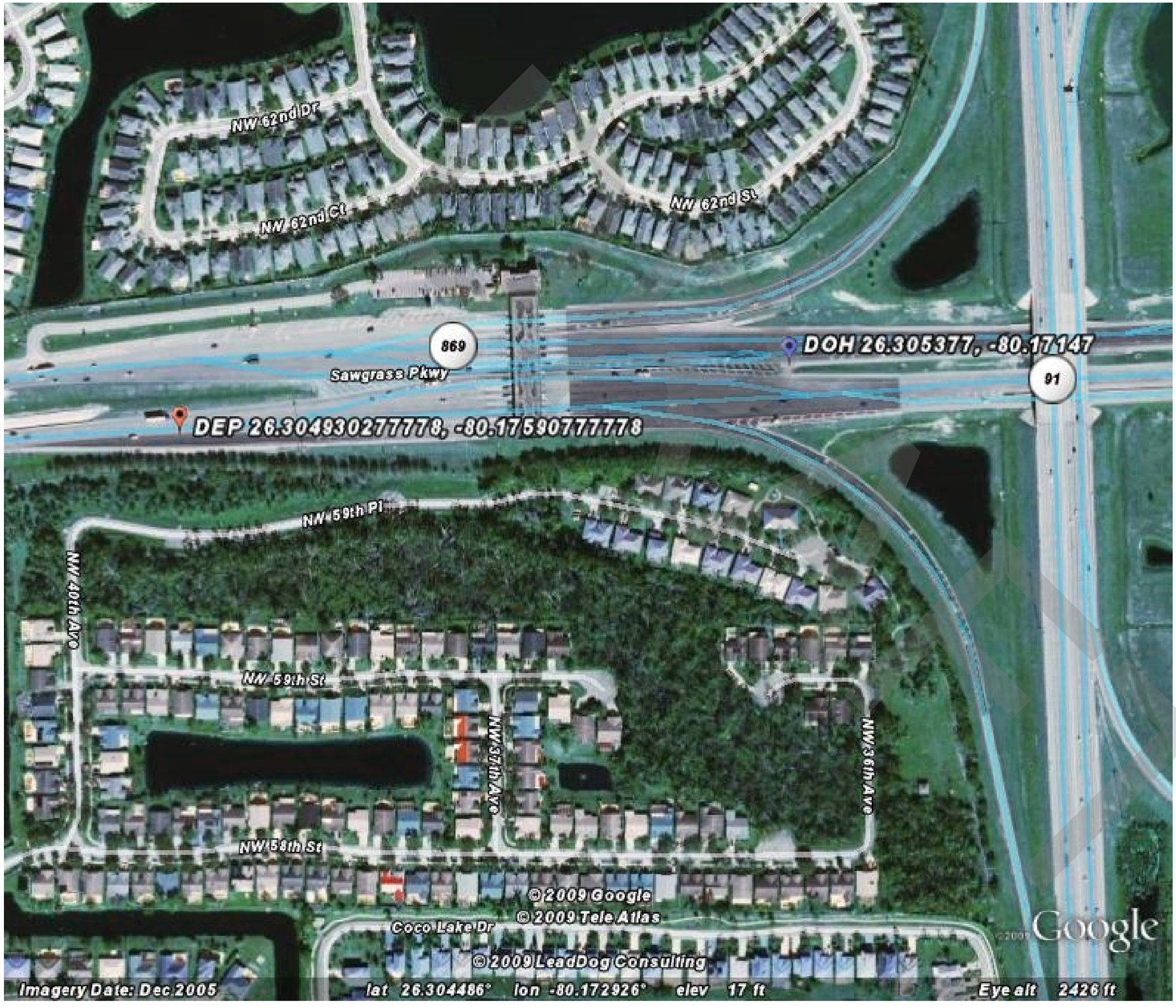
Sincerely,

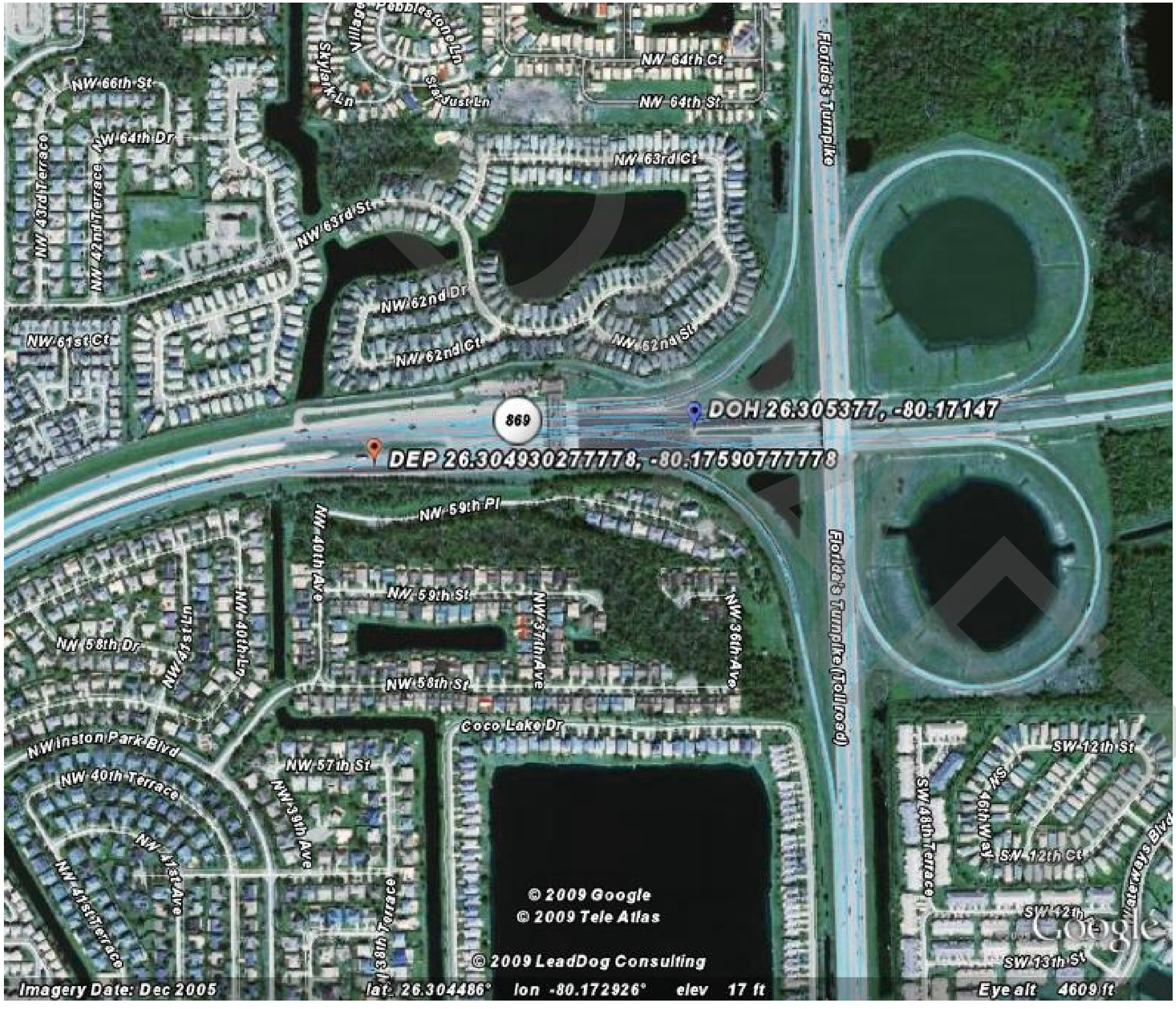
Richard Bradford
Engineering Specialist I
Petroleum Cleanup Section 3
Bureau of Petroleum Storage Systems
Richard.Bradford@dep.state.fl.us

RB/

cc: Stephen Threet, Bureau of Emergency Response, 3000 Northeast 30th Place, Suite 210, Fort Lauderdale, FL 33306
Lorenzo Fernandez, Broward County Department of Planning & Environmental Protection
File

DRAFT


NW 62nd Dr
NW 62nd Ct
NW 62nd St
869
Sawgrass Pkwy
DOH 26.305377, -80.17147
91
DEP 26.304930277778, -80.175907777778
NW 59th Pl
NW 60th Ave
NW 59th St
NW 57th Ave
NW 56th Ave
NW 58th St
© 2009 Google
© 2009 Tele Atlas
Coco Lake Dr
© 2009 LeadDog Consulting
Google
Imagery Date: Dec 2005
lat 26.304486° lon -80.172926° elev 17 ft
Eye alt 2426 ft


NW 66th St
NW 64th Dr
NW 43rd Terrace
NW 42nd Terrace
NW 63rd St
NW 62nd Dr
NW 61st Ct
NW 62nd Ct
NW 62nd St
NW 64th Ct
NW 64th St
NW 63rd Ct
Florida's Turnpike
869
DOH 26.305377, -80.17147
DEP 26.3049302777778, -80.17590777778
NW 59th Pl
NW 40th Ave
NW 59th St
NW 37th Ave
NW 36th Ave
NW 58th Dr
NW 41st Ln
NW 40th Ln
NW 58th St
Coco Lake Dr
NW Winston Park Blvd
NW 40th Terrace
NW 57th St
NW 39th Ave
NW 41st Ave
NW 41st Terrace
NW 38th Terrace
SW 12th St
SW 48th Terrace
SW 12th Ct
SW 13th St
© 2009 Google
© 2009 Tele Atlas
© 2009 LeadDog Consulting
Imagery Date: Dec 2005
lat 26.304486° lon -80.172926° elev 17 ft
Eye alt 4609 ft

Florida Department of

Memorandum **Environmental Protection**

TO: Lewis Cornman, Environmental Manager

THROUGH: Grace Rivera, Environmental Manager

FROM: George Alayoku, Environmental Specialist

DATE: January 24, 2011

SUBJECT: NREQ September 26, 2003 Discharge
Mcfarlane Trucking
Deerfield Toll Plaza E Bound On Sawgrass
Deerfield Beach, Broward County
Fac ID # 069807332

This is in agreement with Broward County memo dated January 13, 2011 The information provided showed that the contamination due to referenced discharge was addressed via source removal Please change discharge status to No Cleanup Required (NREQ)

Please refer to attached, Broward County background information

NREQ
1/25/11 10:53 Am

DRAFT

BROWARD COUNTY
FLORIDA

Environmental Protection and Growth Management Department
POLLUTION PREVENTION, REMEDIATION AND AIR QUALITY DIVISION
One North University Drive, Suite 203, Plantation, Florida 33324
954-519-1260 • FAX 954-765-4804

MEMORANDUM (via e-mail only)

DATE January 13, 2011

TO George Alayoku, FDEP – BPSS

FROM Sat Mellacheruvu, P E., Environmental Assessment and Remediation (EAR) Section

THROUGH Lorenzo Fernandez, P.E., EAR Section Manager

RE: Mcfarlane Trucking 03-2I-0279
Deerfield Toll Plaza E Bound On Sawgrass
Deerfield Beach, Broward County, Florida 33073
FDEP Facility Id No.: 069807332
Discharge Dates: September 26, 2003

The Broward County Pollution Prevention, Remediation and Air Quality Division (Division) has reviewed the administrative file as well as information available on STCM, and OCULUS regarding the referenced site and discharge. Based on a review of the file, Broward County's Environmental Response Section (ER Section) also responded to incident and had closed the incident based on emergency response actions conducted following the release Based on the information provided to ER Section by the Florida Turnpike Enterprise's consultant responding to the incident, it appears the referenced discharge was abated through source removal in 2003. Attached, please find 1) the Discharge Report Form, 2) Disposal Manifests, and 3) Figures and Tables showing the area of source removal and analytical results

Based on the available information, the Division respectfully requests that the cleanup status of the referenced discharge be changed to "Cleanup Not Required (NREQ) "

Please contact me at (954) 519-1448 or smellacheruvu@broward.org, if you have any questions or need any additional information

Attachments 1 through 3

DRAFT

Attachment 1

DRAFT

DRAFT

IMAGE QUALITY

AS YOU VIEW THE FOLLOWING DOCUMENT, PLEASE NOTE THAT PORTIONS OF THE ORIGINAL WERE OF POOR QUALITY

HANDEX

FACSIMILE TRANSMITTAL

Date: October 2, 2003
To: Mr. Ron King (DPEP)
Fax #: 954-357-6694
Re: Fuel Spill at SW 10th Street Toll Plaza
Total Pages Including Cover: 3

Mr. King

As per your request, I am sending you the Discharge Reporting Form for the fuel spill at the above referenced site. If you should have any questions or concerns, please do not hesitate to contact me. Thank you

Cc Mr. David Moore, FDOT Turnpike

DRAFT

Mauricio Pagés
mpages@handexmail.com
(561) 243-9551 ext. 141
fax (561) 243-8707

Handex-Delray Beach
2055 South Congress Avenue, Delray Beach, Florida 33445

Discharge Report Form

PLEASE PRINT OR TYPE

DEP Form # 62-761.900(1)
Form Title: Discharge Report Form
Effective Date: July 13, 1998

Instructions are on the reverse side. Please complete all applicable blocks

Facility ID Number (if registered) UNKNOWN 2. Date of form completion. October 2, 2003

1 General Information
Facility name or responsible party (if applicable) SW 10th Street Toll Plaza
Facility Owner or Operator, or Discharger Jose McFarlane
Contact Person David Moore Telephone Number (954) 975-4855 County Broward
Facility or Discharger Mailing Address.
Location of Discharge (street address): FDOT Right-of-Way on shoulder of eastbound lanes where the Sawgrass meets SW 10th Street
Latitude and Longitude of Discharge (if known)

4. Date of receipt of test results or discovery of confirmed discharge 09/26/03 month/day/year

5. Estimated number of gallons discharged: approx. 50 gal.

6. Discharge affected [ ] Air [X] Soil [ ] Groundwater [ ] Drinking water well(s) [ ] Shoreline [ ] Surface water (water body name)

7 Method of discovery (check all that apply)

[ ] Liquid detector (automatic or manual)	[ ] Internal inspection	[ ] Closure/Closure Assessment
[ ] Vapor detector (automatic or manual)	[ ] Inventory control	[ ] Groundwater analytical samples
[ ] Tightness test	[ ] Monitoring wells	[ ] Soil analytical tests or samples
[ ] Pressure test	[ ] Automatic tank gauging	[X] Visual observation
[ ] Statistical Inventory Reconciliation	[ ] Manual tank gauging	[ ] Other

8 Type of regulated substance discharged (check one)

[ ] Unknown	[ ] Used/waste oil	[ ] Jet fuel	[ ] Heating oil	[ ] New/lube oil
[ ] Gasoline	[ ] Aviation gas	[X] Diesel	[ ] Kerosene	[ ] Mineral acid

[ ] Hazardous substance - includes CERCLA substances from USTs above reportable quantities, pesticides, ammonia, chlorine, and derivatives (write in name or Chemical Abstract Service (CAS) number)
[ ] Other

9 Source of Discharge (check all that apply)

[ ] Dispensing system	[ ] Pipe	[ ] Barge	[ ] Pipeline	[ ] Vehicle
[ ] Tank	[ ] Fitting	[ ] Tanker ship	[ ] Railroad tanker	[ ] Airplane
[ ] Unknown	[ ] Valve failure	[ ] Other Vessel	[X] Tank truck	[ ] Drum

[ ] Other

10 Cause of the discharge. (check all that apply)

[ ] Loose connection	[X] Puncture	[X] Spill	[X] Collision	[ ] Corrosion
[ ] Fire/explosion	[ ] Overfill	[ ] Human error	[X] Vehicle Accident	[ ] Installation failure

[X] Other Roadway construction

11. Actions taken in response to the discharge: impacted soils will be removed on October 3, 2003.

12 Comments:

13 Agencies notified (as applicable):

[ ] State Warning Point 1-800 320-0519	[ ] National Response Center 1-800-424-8802	[ ] Florida Marine Patrol (800) 342-5367	[X] Fire Department	[ ] DEP (Central District) [ ] County Tanks Program

14. To the best of my knowledge and belief, all information submitted on this form is true, accurate, and complete.

Mauricio Pagés, Hardaz of Florida as FDOT Turnpike Representative
Printed Name of Owner, Operator or Authorized Representative, or Discharger

Signature of Owner Operator or Authorized Representative, or Discharger

DRAFT

Oil spills to navigable waters of the United States, and releases of reportable quantities of CERCLA hazardous substances must be reported within one hour to the National Response Center or the Florida Marine Patrol. Reports to the National Response Center of oil spills to navigable waters need not be repeated to any other federal, state, or local agency. Conditions at the site that do not involve spills to navigable waters of the United States, or CERCLA hazardous substances, that pose an immediate threat to human health or the environment, must be immediately reported to the State Warning Point or the Local Fire Department. This form must be submitted for all discharges from facilities with storage tank systems, and at other sites, in accordance with Chapters 62-761 and 62-770, F.A.C. Chapter 62-761 and 62-770, F.A.C., should be consulted for specific reporting requirements.

State Warning Point	*National Response Center*	*Local Fire Department*
1-800-320-0519	*1-(800)-424-8802*	*(obtain local number)*

This form must be used to report any confirmed discharge, or any one of the following from a storage tank system subject to Chapter 62-761, F.A.C., unless the discharge is from a previously-known and reported discharge:

1 Results of analytical or field tests of surface water, groundwater, or soils indicating the presence of contamination by
   a. A hazardous substance from a UST;
   b A regulated substance, other than petroleum products, or
   c. Petroleum products' chemicals of concern specified in Chapter 62-770, F.A.C ,
2 A spill or overfill event of a regulated substance to soil equal to or exceeding 25 gallons, unless the regulated substance has a more stringent reporting requirement specified in CFR Title 40, Part 302,
3 Free product or sheen of a regulated substance present in surface water, groundwater, soils, basements, sewers, and utility lines at the facility or in the surrounding area, or
4 Soils stained by regulated substances observed during a closure assessment performed in accordance with Rule 62-761.800, F.A.C

A copy of this form must be delivered or faxed to the County within 24 hours of the discovery of a discharge, or before the close of the next business day. It is recommended that the original copy be sent in the mail. If the discharge occurs at a county-owned facility, a copy of the form must be faxed or delivered to the local FDEP District office. A discharge of petroleum or petroleum products from a source other than a regulated storage tank system must be reported within one week of discovery in accordance with Rule 62-770.250, F.A.C.

FDEP District Office Addresses:

Northwest District
160 Governmental Center
Pensacola FL. 32501-5794
Phone 850-595-8360
FAX 850-595-8417

Northeast District
7825 Baymeadows Way Suite B 200
Jacksonville FL. 32256-7590
Phone. 904-448-4300
FAX. 904-448-4362

Central District
3319 Maguire Blvd Suite 232
Orlando, FL. 32803-3767
Phone: 407-894-7555
FAX 407-897-2966

Southwest District
3804 Coconut Palm Dr
Tampa FL. 33619-8218
Phone 813-744-6100
FAX 813-744-6125

South District
2295 Victoria Ave. Suite 364
Ft Myers FL. 33901-2549
Phone. 813-332-6975
FAX 813-332-6969

Southeast District
400 N Congress Ave.
West Palm Beach, FL. 33416-5425
Phone 561-681-6600
FAX 561-681-6790

[Effective date of the rule]

DRAFT

Attachment 2

DRAFT

[redacted]

3133 NW 25th Ave
Pompano Beach, FL 33069
(954) 957-7271 Phone (954) 957-7807 Fax
www.swsefr.com

FAX TRANSMITTAL

This facsimile is CONFIDENTIAL and intended for the Addressee(s) named below. If you receive this facsimile in error, please notify us by telephone and return the original facsimile VIA U.S. Postal Svc. Dissemination or reproduction of this document is prohibited.

To: Ron King - DPEP

Date: Oct. 1 '03

Number of Pages: 3

From: Steve Kalbaugh

Fax: (954) 357-6694

Remarks: Here are the copies of Disposal Manifest & Wt Ticket from Spill 9/26 on Sawgrass Espwy. @ Toll Booth. DRF will be faxed to you by Mauricio @ Handex. Any questions please call Thanks

Biohazard Emergency Remediation Maritime Plant



Clean-up Response Services Services Maintenance

Panama City Pensacola Ft Lauderdale Tampa Bay Ft Myers Orlando
Crystal River Montgomery Savannah Mobile Atlanta Decatur Biloxi

DRAFT

NON-HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No. N/A | Manifest Doc. No. 24 936 | 2. Page 1 of 1 | Trip # 4837

3. Generator's Name and Mailing Address: McFarland Trucking [illegible] 8215 Coral Creek Circle Margate, FL 33065 | JOB # 2820

4. Generator's Phone (321) 242-7810

5. Transporter 1 Company Name: SWS Environmental | 6. US EPA ID Number: FLR000005035 | A. Transporter's Phone: (954) 981-7711

7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone

9. Designated Facility Name and Site Address: Waste Management [illegible] Pompano Bch, FL | 10. US EPA ID Number: FLD981019581 | C. Facility's Phone: (954) 971-9861

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON-HAZARDOUS MATERIAL (SPENT ABSORBANTS)	003	DM	450	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above: Profile # WM-KM1018

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Emergency Response : (800) 852-7876

SWS # 0309221

16. 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.

Printed/Typed Name: Michael Rhodes As Rep of FDX Trpt. | Signature | Month 09 Day 26 Year 03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Leonard Dennis | Signature | Month 09 Day 26 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Bob Ely | Signature | Month 9 Day 26 Year 03

ORIGINAL – RETURN TO GENERATOR

DRAFT

WM Central Landfill
3000 NW 48TH ST

POMPANO BEACH, FL 33073
954-977-8551

245,061

ORIGINAL

Southern Waste Services	4507	Web	04:11:11	04:11:11	9/26/2003

8649 Southern Waste Services
Southern Waste Services
3133 NW 25TH AVE.

POMPANO BEACH FL 33069-[illegible]

Scale #: 1
GROSS Lbs: 10,940.00
Tare Lbs: 9,640.00
Net Lbs: 1,300.00
All Adjustments: 0.00
Adjusted Lbs: 1,300.00
Adjusted Tons: 0.65

SOS# 0307221

No Source
Destination:

Check #
90603A

SPS
SWS VAR/LOCATIONS CM 6010

WASTE MANAGEMENT

631 \ DRUMS	3.00 EACH			
TOTAL FEES				
TOTAL FUEL SURCHARGE				
TOTAL AMOUNT				

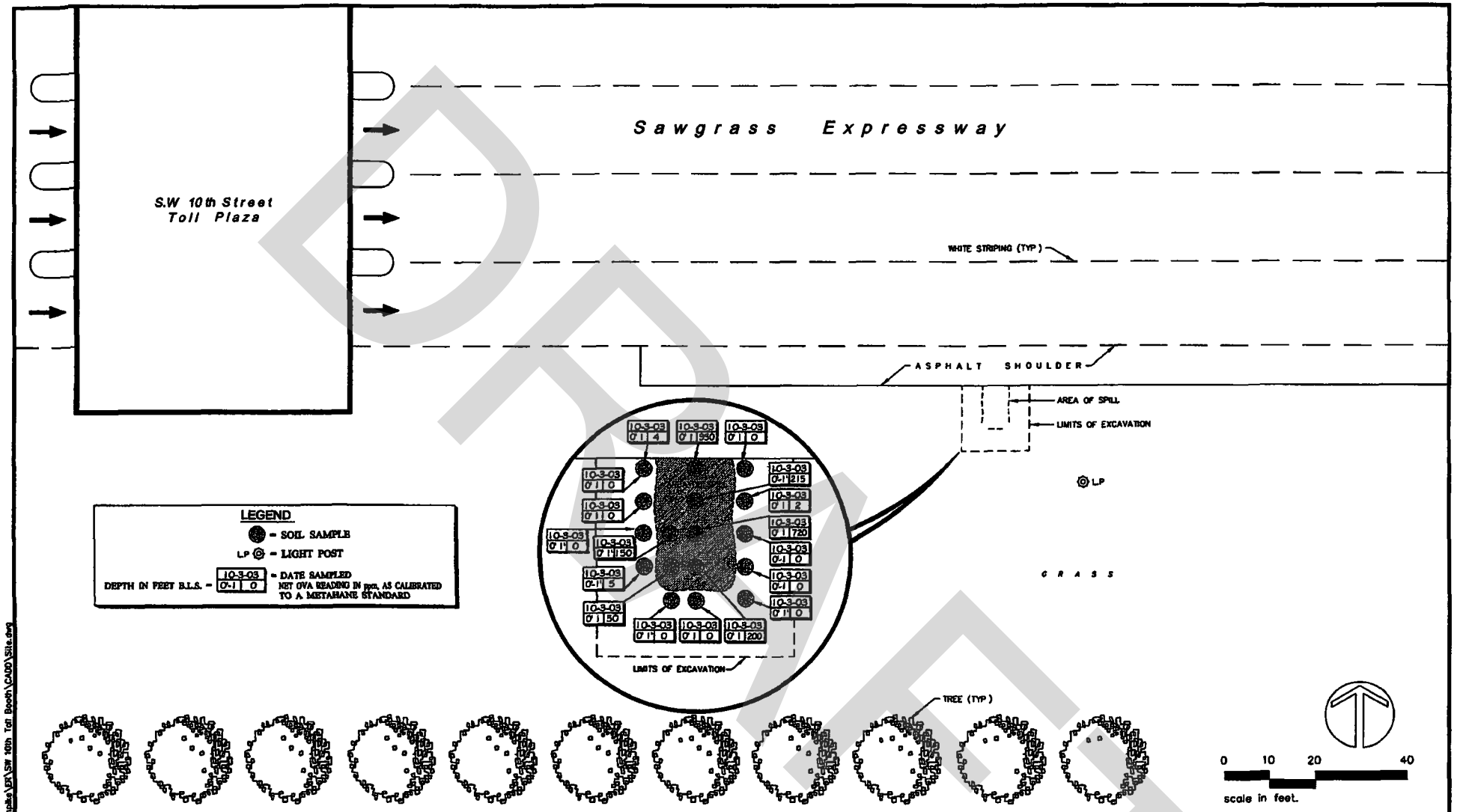
DRAFT

Attachment 3

DRAFT

FIGURES

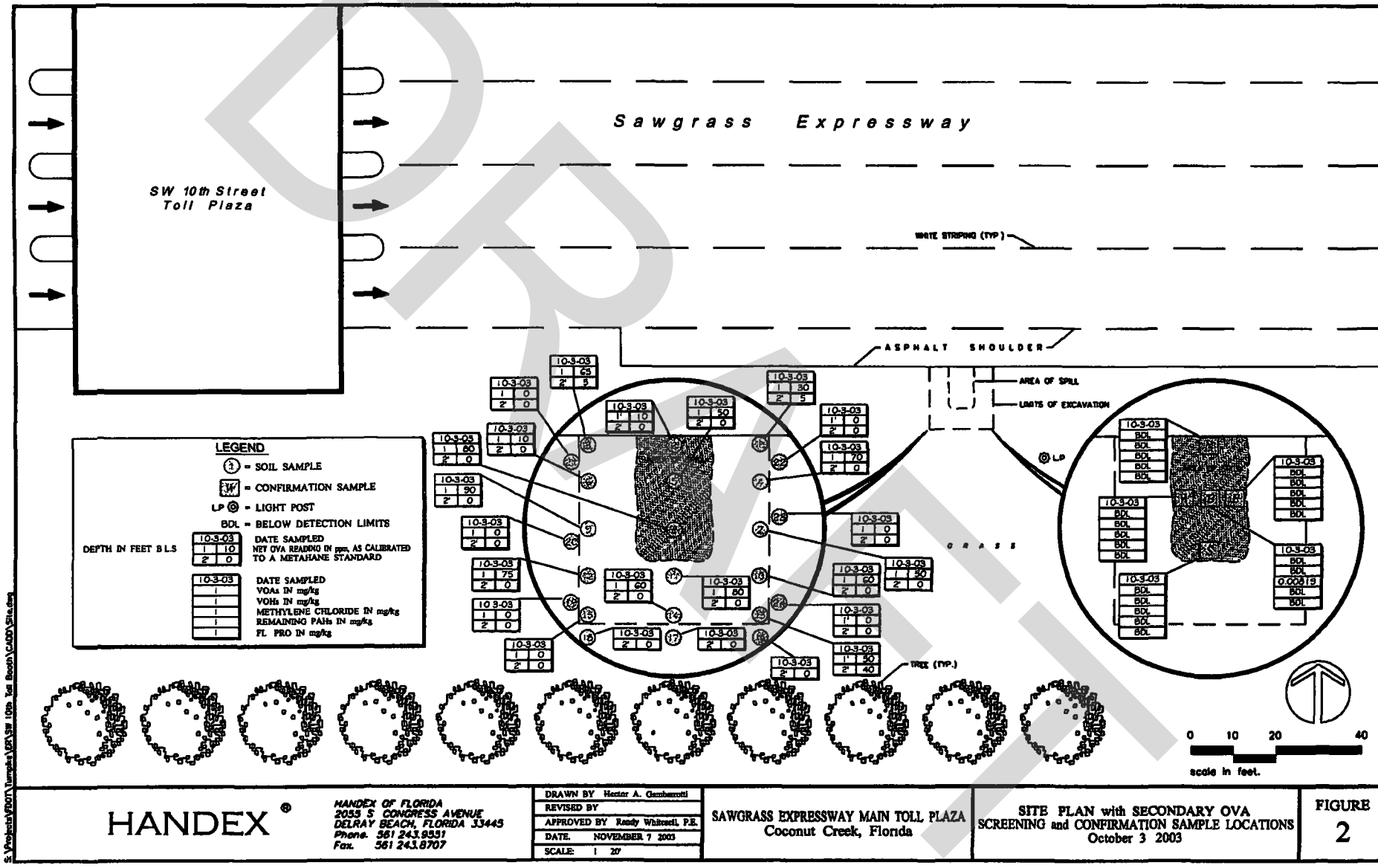
DRAFT



DRAFT

S:\Projects\FDOT\Turnpike\EXT\SW 10th Toll Booth\CADD\Site.dwg

HANDEX ®	HANDEX OF FLORIDA 2055 S. CONGRESS AVENUE DELRAY BEACH, FLORIDA 33445 Phone 561 243.9551 Fax: 561 243.8707	DRAWN BY Hector A. Gambenotti REVISED BY APPROVED BY Randy Whitesell, P.E. DATE: OCTOBER 27 2003 SCALE: 1 = 20'	SAWGRASS EXPRESSWAY MAIN TOLL PLAZA Coconut Creek, Florida	SITE PLAN with PRIMARY OVA SCREENING LOCATIONS October 3 2003	FIGURE 1



DRAFT

HANDEX®

HANDEX OF FLORIDA
2055 S CONGRESS AVENUE
DELRAY BEACH, FLORIDA 33445
Phone. 561 243.9551
Fax. 561 243.8707

DRAWN BY	Hector A. Gamberutti
REVISED BY	
APPROVED BY	Randy Whitesell, P.E.
DATE.	NOVEMBER 7 2003
SCALE:	1 20'

SAWGRASS EXPRESSWAY MAIN TOLL PLAZA
Coconut Creek, Florida

SITE PLAN with SECONDARY OVA SCREENING and CONFIRMATION SAMPLE LOCATIONS
October 3 2003

FIGURE 2

S:\Projects\VDOT\Turnpike\GIS\SW 10th Toll Booth\CADD\Site.dwg

TABLES

DRAFT

TABLE 1
SUMMARY OF ORGANIC VAPORS DETECTED IN SOILS (PRE-EXCAVATION
SAWGRASS EXPRESSWAY MAIN TOLL PLAZA, EASTBOUND LANE:
PALM BEACH COUNTY

SOIL SAMPLE LOCATION	DATE COLLECTED	DEPTH COLLECTED (FEET BLS)	UNFILTERED READINGS (PPM)	FILTERED READINGS (PPM)	NET HYDROCARBONS (PPM)
1	10/03/03	0-1	0	0	0
2	10/03/03	0-1	1000	50	950
3	10/03/03	0-1	5	1	4
4	10/03/03	0-1	2	0	2
5	10/03/03	0-1	225	10	215
6	10/03/03	0-1	0	0	0
7	10/03/03	0-1	0	0	0
8	10/03/03	0-1	720	0	720
9	10/03/03	0-1	150	0	150
10	10/03/03	0-1	0	0	0
11	10/03/03	0-1	0	0	0
12	10/03/03	0-1	210	10	200
13	10/03/03	0-1	50	0	50
14	10/03/03	0-1	5	0	5
15	10/03/03	0-1	0	0	0
16	10/03/03	0-1	0	0	0
17	10/03/03	0-1	0	0	0

BLS = Below Land Surface PPM = Parts Per Million

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TABLE 2
SUMMARY OF ORGANIC VAPORS DETECTED IN SOILS (DURING EXCAVATION
SAWGRASS EXPRESSWAY MAIN TOLL PLAZA, EASTBOUND LANE'
PALM BEACH COUNTY

SOIL SAMPLE LOCATION	DATE COLLECTED	DEPTH COLLECTED (FEET BLS)	UNFILTERED READINGS (PPM)	FILTERED READINGS (PPM)	NET HYDROCARBONS (PPM)
1	10/03/03	1	40	10	30
		2	5	0	5
2	10/03/03	1	10	0	10
		2	0	0	0
3	10/03/03	1	80	15	65
		2	10	5	5
4	10/03/03	1	80	10	70
		2	0	0	0
5	10/03/03	1	50	0	50
		2	0	0	0
6	10/03/03	1	20	10	10
		2	0	0	0
7	10/03/03	1	50	0	50
		2	0	0	0
8	10/03/03	1	80	0	80
		2	0	0	0
9	10/03/03	1	90	0	90
		2	0	0	0
10	10/03/03	1	70	10	60
		2	0	0	0
11	10/03/03	1	80	0	80
		2	0	0	0
12	10/03/03	1	80	5	75
		2	0	0	0
13	10/03/03	1	60	10	50
		2	50	10	40
14	10/03/03	1	60	0	60
		2	0	0	0
15	10/03/03	1	0	0	0
		2	0	0	0
16	10/03/03	2	0	0	0
17	10/03/03	2	0	0	0
18	10/03/03	2	0	0	0
19	10/03/03	1	0	0	0
		2	0	0	0
20	10/03/03	1	0	0	0
		2	0	0	0
21	10/03/03	1	0	0	0
		2	0	0	0
22	10/03/03	1	0	0	0
		2	0	0	0
23	10/03/03	1	0	0	0
		2	0	0	0
24	10/03/03	1	0	0	0
		2	0	0	0

BLS = Below Land Surface PPM = Parts Per Million

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TABLE 3
SUMMARY OF SOIL ANALYSIS
SAWGRASS EXPRESSWAY MAIN TOLL PLAZA, EASTBOUND LANES, PALM BEACH COUNTY
FLORIDA'S TURNPIKE

EPA METHOD	PARAMETER ANALYZED	62-777 Soil Cleanup Commercial Target Levels	Leachability Based on Groundwater Criteria	South Wall	North Wall	West Wall	East Wall	Base
8260 (mg/kg)	Benzene	1 6	007	BDL	BDL	BDL	BDL	BDL
	Toulene	2,600	0 5	BDL	BDL	BDL	BDL	BDL
	Ethylbenzene	8,400	0 6	BDL	BDL	BDL	BDL	BDL
	Total Xylenes	40,000	0.2	BDL	BDL	BDL	BDL	BDL
	MTBE	22,000	0 2	BDL	BDL	BDL	BDL	BDL
8260 (mg/kg)	Naphthalene	270	1 7	BDL	BDL	BDL	BDL	BDL
	2-Methylnaphthalene	560	6 1	BDL	BDL	BDL	BDL	BDL
	1-Methylnaphthalene	470	2 2	BDL	BDL	BDL	BDL	BDL
	Methylene Chloride	23	0 3	BDL	0 00798	BDL	0 00602	0 00819
	Benzo (a) Pyrene	0 5	8	BDL	BDL	BDL	BDL	BDL
	Benzo (b) Fluoranthene	4 8	10	BDL	BDL	BDL	BDL	BDL
	Benzo (k) Fluoranthene	52	25	BDL	BDL	BDL	BDL	BDL
	Chrysene	450	77	BDL	BDL	BDL	BDL	BDL
	Fluorene	28,000	160	BDL	BDL	BDL	BDL	BDL
	Indenol (1,2,3-c,d) Pyrene	5 3	28	BDL	BDL	BDL	BDL	BDL
	Phenanthrene	30,000	250	BDL	BDL	BDL	BDL	BDL
	Remaining PAH's	NA	NA	BDL	BDL	BDL	BDL	BDL
FL-PRO (mg/kg)	TRPH	2,500	340	BDL	BDL	BDL	BDL	BDL

Explanation Concentrations are expressed in milligrams per kilogram (mg/kg)
Soil cleanup target level criteria are for direct exposure in a commercial area
BDL denotes Below Detection Limits VOAs denotes Volatile Organic Aromatics
MTBE denotes Methyl-tert-butyl-ether VOHs denotes Volatile Orangic Halocarbons
TRPH denotes Total Recoverable Petroleum Hydrocarbons.
NA denotes not applicable PAHs denotes Polynuclear Aromatic Hydrocarbons

DRAFT

Alayoku, George

From Mellacheruvu, Sat [SMELLACHERUVU@broward org]
Sent Wednesday, January 19, 2011 11 20 AM
To Alayoku, George
Cc Fernandez, Lorenzo
Subject Mcfarlane Trucking 03-2I-0279, Deerfield Toll Plaza E Bound On Sawgrass, Deerfield Beach, Broward County, Florida 33073, FDEP Facility Id No 069807332
Attachments Memo with Attachments pdf

George

Attached, please find a memo requesting NREQ status for the September 26, 2003 discharge at the referenced site No paper copies of the attached are being mailed If you have any questions or need more information, please contact me

Regards,

Sat

BROWARD COUNTY FLORIDA
Sat Mellacheruvu, P E
Pollution Prevention, Remediation and Air Quality Division (PPRAQD)
One North University Drive, Suite 203, Plantation, Florida 33324
Office (954) 519-1448
www broward org

PPRAQD values your feedback as a customer Please comment on the quality of service you received by clicking this link to the PPRAQ Customer Survey Thank you

Under Florida law, most e-mail messages to or from Broward County employees or officials are public records, available to any person upon request, absent an exemption Therefore, any e-mail message to or from the County, inclusive of e-mail addresses contained therein, may be subject to public disclosure

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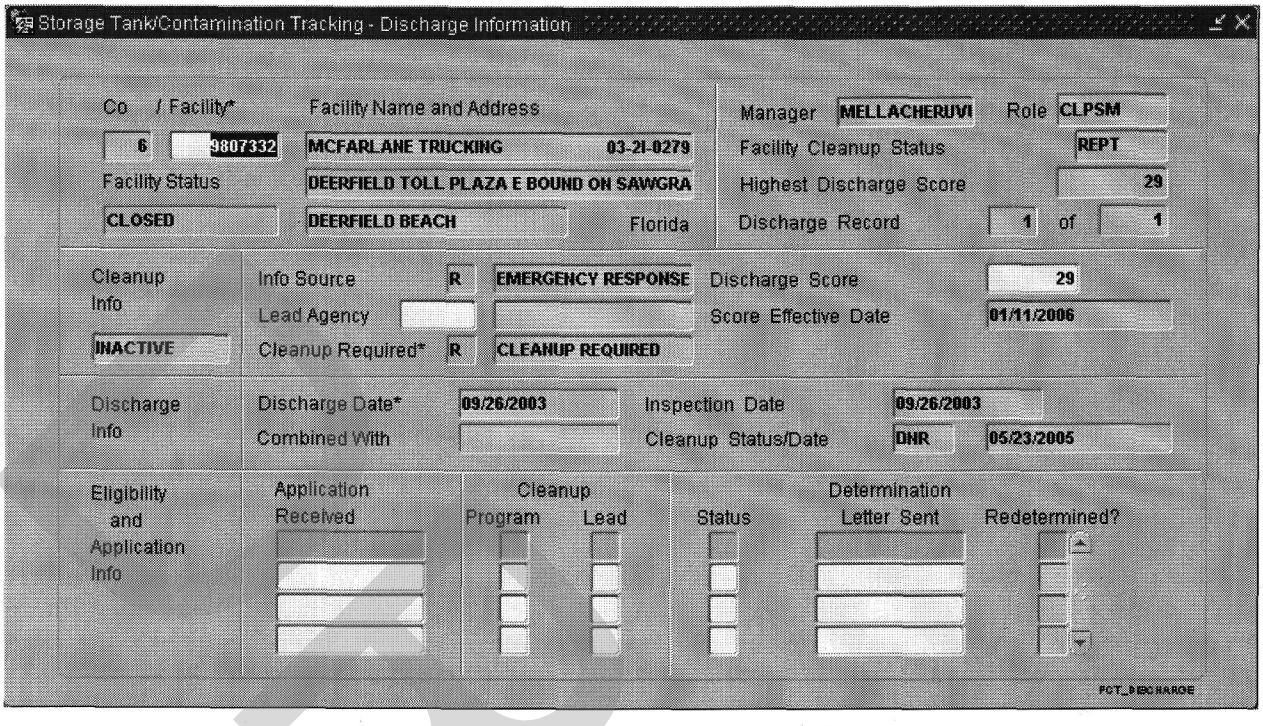
Storage Tank/Contamination Tracking - Discharge Information
Co / Facility*
6
9807332
Facility Name and Address
MCFARLANE TRUCKING
03-2I-0279
DEERFIELD TOLL PLAZA E BOUND ON SAWGRA
DEERFIELD BEACH
Florida
Facility Status
CLOSED
Manager
MELLACHERUVI
Role
CLPSM
Facility Cleanup Status
REPT
Highest Discharge Score
29
Discharge Record
1
of
1
Cleanup Info
INACTIVE
Info Source
R
EMERGENCY RESPONSE
Lead Agency
Cleanup Required*
R
CLEANUP REQUIRED
Discharge Score
29
Score Effective Date
01/11/2006
Discharge Info
Discharge Date*
09/26/2003
Combined With
Inspection Date
09/26/2003
Cleanup Status/Date
DNR
05/23/2005
Eligibility and Application Info
Application Received
Cleanup Program
Lead
Status
Determination Letter Sent
Redetermined?
FCT_DISCHARGE

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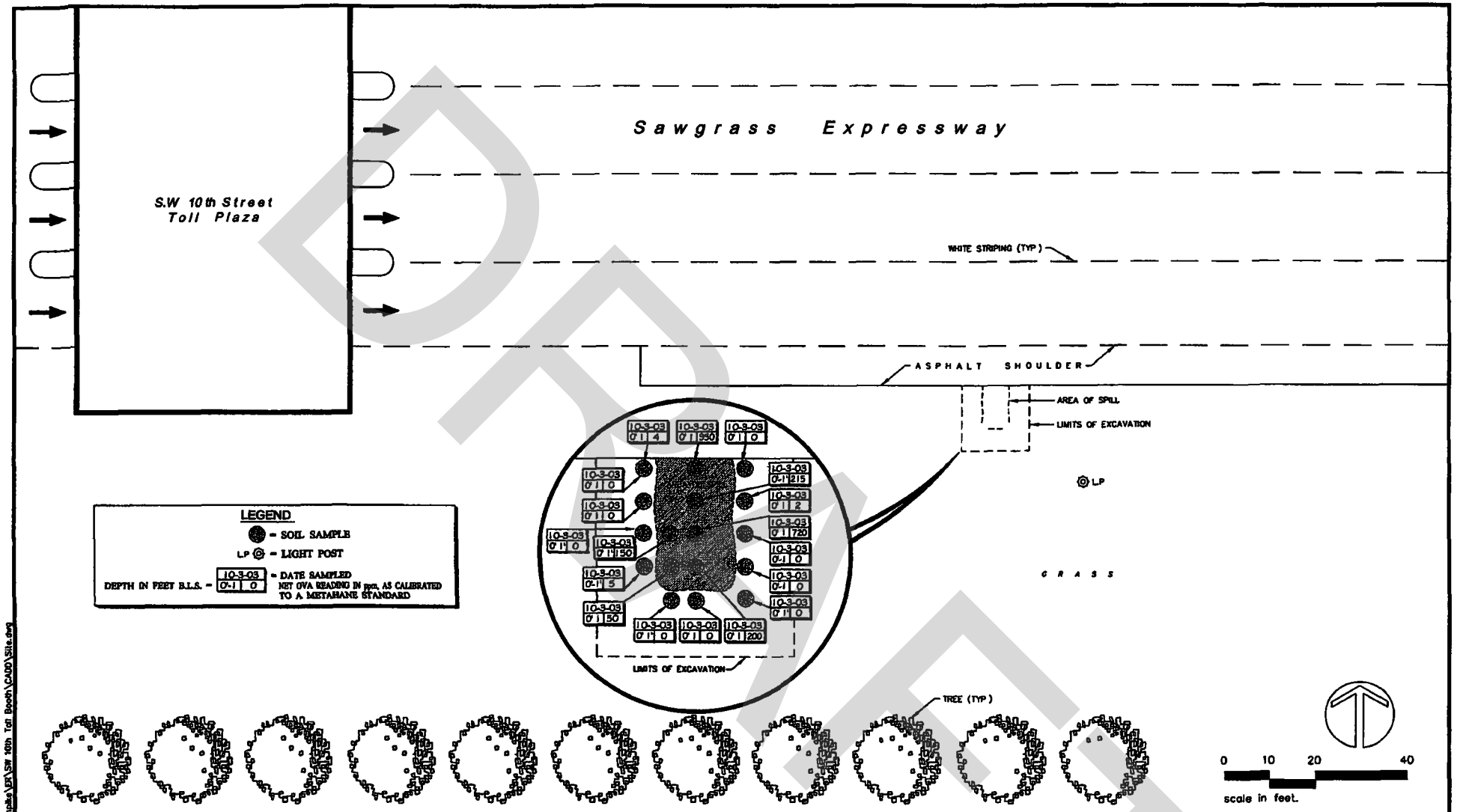

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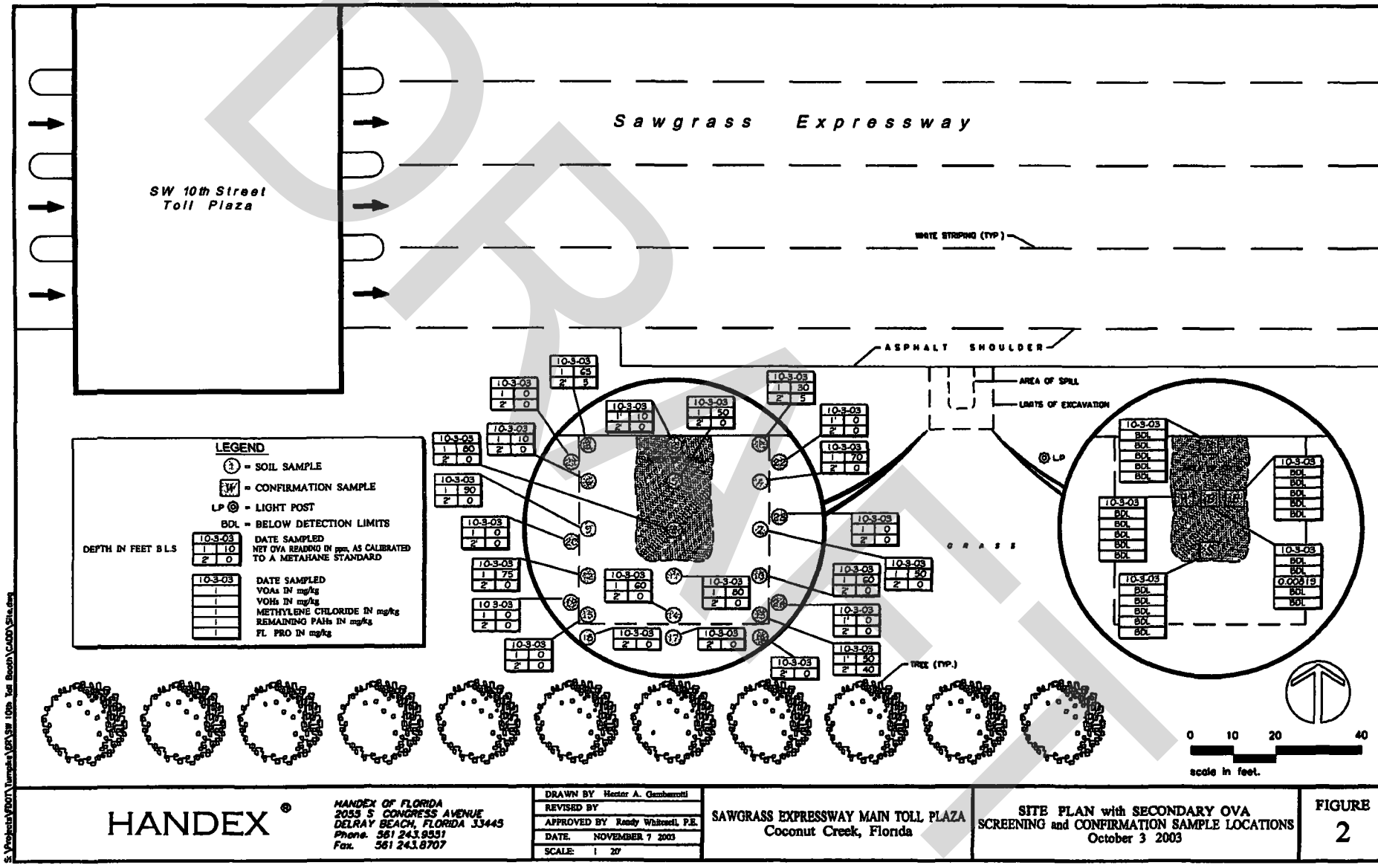
S:\Projects\FDOT\Turnpike\EXT\SW 10th Toll Booth\CADD\Site.dwg

HANDEX ®	HANDEX OF FLORIDA 2055 S. CONGRESS AVENUE DELRAY BEACH, FLORIDA 33445 Phone 561 243.9551 Fax: 561 243.8707	DRAWN BY Hector A. Gambenotti REVISED BY APPROVED BY Randy Whitesell, P.E. DATE: OCTOBER 27 2003 SCALE: 1 = 20'	SAWGRASS EXPRESSWAY MAIN TOLL PLAZA Coconut Creek, Florida	SITE PLAN with PRIMARY OVA SCREENING LOCATIONS October 3 2003	FIGURE 1



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HANDEX®

HANDEX OF FLORIDA
2055 S CONGRESS AVENUE
DELRAY BEACH, FLORIDA 33445
Phone. 561 243.9551
Fax. 561 243.8707

DRAWN BY	Hector A. Gamberutti
REVISED BY	
APPROVED BY	Randy Whitesell, P.E.
DATE.	NOVEMBER 7 2003
SCALE:	1 20'

SAWGRASS EXPRESSWAY MAIN TOLL PLAZA
Coconut Creek, Florida

SITE PLAN with SECONDARY OVA SCREENING and CONFIRMATION SAMPLE LOCATIONS
October 3 2003

FIGURE 2

S:\Projects\VDOT\Turnpike\GIS\SW 10th Toll Booth\CADD\Site.dwg

Site 10 Douglas Fertilizer/Liquid AG Systems
Located within Sawgrass Expressway ROW
Facility ID: ERIC_10265
Risk Rating Low

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Print Form | Reset Form

CASE CLOSURE REQUEST FORM: ENFORCEMENT

To: **Jack Chisolm, OGC Enforcement Section**

From: Jeffrey Zuczek

Through:

Date: Aug 25, 2011

Case Style from LCT: DEP vs. Douglas Fertilizer and Chemical, Inc.

OGC No. 9 - 3949

The District requests the above referenced case be closed for the following reason(s):

☐ All terms and conditions of the _____ entered on _____ have been satisfactorily completed.

☐ Compliance without formal enforcement.

☐ District decision not to pursue further enforcement. *Explanation:*

☐ OGC Case No. _____ - _____ issued in error; case being tracked under OGC No. _____ - _____

☒ Other. *Explanation:*

SRCO issued 12/27/2010

CORRECTIVE ACTIONS:

☐ No corrective actions or restoration are required.

☒ Corrective actions or restoration completed as required.

ASSESSMENTS:

☒ No monies assessed. ☐ Monies paid in full.

☐ _____ project allowed in lieu of civil penalties. *Project description, including status:*

Costs paid in the amount of $

Penalties/fines paid in the amount of $

In-kind or P2 completed at value of $

Lease fees/arrears paid in the amount of $

Please note: Closure requests for cases awaiting write-off or collection will become a part of OGC's file but will not be closed in LCT until OGC receives notification from the Department of Financial Services that write-off or collection has occurred. In any case requiring corrective actions/ restoration, you must confirm completion of corrective actions/restoration before the case will be closed in LCT.

----------FOR OGC USE ONLY----------

OGC COMMENTS:

Rev. 1/11

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Florida Department of Environmental Protection

Jack Long, Director
Southeast District Office

DEC 2 7 2010

Southeast District Office
400 N. Congress Avenue, Suite 200
West Palm Beach, FL 33401 -2913
(561) 681-6600

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Mimi A. Drew
Secretary

CERTIFIED MAIL #91 7108 2133 3938 2488 2154

Mr. Dennis J. Addis, President
The Ohio Andersons, Inc.
P.O. Box 119
Maumee, OH 43537

Waste Cleanup
Douglas Fertilizer & Chemical, Inc.
Site ID: COM_263880

Subject: **Site Rehabilitation Completion Order (SRCO)**
Douglass Fertilizer & Chemical, Inc.
Sawgrass Expressway, Northbound, Just West of the Deerfield Beach Toll Booth
Broward County, FL

Dear Mr. Addis:

The Southeast District has reviewed the Groundwater Sampling Report and No Further Action (NFA) Proposal, dated and received on April 5, 2010, that was prepared by Arcadis for Douglas Fertilizer & Chemical, Inc., for the location identified above. Douglas Fertilizer & Chemical, Inc. merged with The Ohio Andersons, Inc. on August 31, 2009, as indicated in documents filed with the Florida Department of State, Division of Corporations. A map showing the location of the discharge and the former location of the "contaminated site" for which this Order is being issued is attached as Exhibit 1 and is incorporated by reference herein.

The contamination, which resulted from a severed line on the liquid fertilizer truck, was discovered on January 1, 2005. The driver pulled off the road when he noticed the leak. The discharge consisted of nitrogen based liquid fertilizer. The approximate amount of discharged liquid fertilizer is 1200 gallons. The NFA Proposal is supported by earlier submittals, prepared pursuant to the requirements of Chapter 62-780, Florida Administrative Code (F.A.C.), including, but not limited to:

- Source Removal Report, Sawgrass Expressway Main Toll Plaza Northbound Lanes, Broward County, FL, dated May 13, 2005, (received on May 15, 2005)
- Groundwater Sampling Report Sawgrass Expressway Northbound just West of the Deerfield Beach Toll Plaza, dated May 22, 2007, (received on May 24, 2007)
- Groundwater Sampling Report Sawgrass Expressway Northbound just West of the Deerfield Beach Toll Plaza, dated December 10, 2009, (received on December 10, 2009)

Based on the recommendation and representations submitted with the NFA Proposal and the above-referenced documents, the Department has reasonable assurance that The Ohio Andersons, Inc.

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at the Deerfield Beach Toll Plaza Sawgrass Expressway has met the criteria in Chapter 62-780, Florida Administrative Code (F.A.C.) for the former contaminated site. The submittals indicate that soil, and groundwater contaminant concentrations are below the applicable Soil Cleanup Target Levels and Maximum Concentration Limits or Groundwater Cleanup Target Levels as adopted in Chapter 62-777, F.A.C. (Effective date April 17, 2005) for the discharged contaminants. Therefore, you have satisfied the site rehabilitation requirements for the above-referenced contaminated site and are released from any further obligation to conduct site rehabilitation at the contaminated site, except as set forth below.

Failure to meet the following requirement will result in the revocation of this Order:

(a) You are required to properly abandon all monitoring wells except compliance wells required by Chapter 62-761, F.A.C., for release detection, within 60 days of receipt of this Order. The monitoring wells must be plugged and abandoned in accordance with the requirements of Rule 62-532.500, F.A.C.

Further, in accordance with Chapter 376.30701(4), Florida Statutes (F.S.), upon completion of site rehabilitation, additional site rehabilitation is not required unless it is demonstrated that:

(a) Fraud was committed in demonstrating site conditions or completion of site rehabilitation;

(b) New information confirms the existence of an area of previously unknown contamination which exceeds the site-specific rehabilitation levels established in accordance with Section 376.30701(2), F.S., or which otherwise poses the threat of real and substantial harm to public health, safety, or the environment;

(c) A new discharge of pollutants or hazardous substances occurs at the site subsequent to the issuance of this Order.

Legal Issues

The Department's Order shall become final unless a timely petition for an administrative hearing is filed under sections 120.569 and 120.57, F.S., within 21 days of receipt of this Order. The procedures for petitioning for a hearing are set forth below.

Persons affected by this Order have the following options:

A. If you choose to accept the Department's decision regarding this SRCO, you do not have to do anything. This Order is final and effective on the date filed with the Clerk of the Department, which is indicated on the last page of this Order.

B. If you choose to challenge the decision, you may do the following:

1. File a request for an extension of time to file a petition for hearing with the Department's Agency Clerk in the Office of General Counsel within 21 days of receipt of this Order. Such a request should be made if you wish to meet with the Department in an attempt to informally resolve any disputes without first filing a petition for hearing; or

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2. File a petition for administrative hearing with the Department's Agency Clerk in the Office of General Counsel within **21** days of receipt of this Order.

Please be advised that mediation of this decision pursuant to section 120.573, F.S., is not available.

How to Request an Extension of Time to File a Petition for Hearing

For good cause shown, pursuant to Rule 62-110.106(4), F.A.C., the Department may grant a request for an extension of time to file a petition for hearing. Such a request must be filed (received) by the Agency Clerk in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000, within **21** days of receipt of this Order. Petitioner, if different from Dennis J. Addis, The Ohio Andersons Inc., P.O. Box 119, Maumee, OH 43537, shall mail a copy of the request to Dennis J. Addis, The Ohio Andersons Inc., P.O. Box 119, Maumee, OH 43537, at the time of filing. Timely filing a request for an extension of time tolls the time period within which a petition for administrative hearing must be made.

How to File a Petition for Administrative Hearing

A person whose substantial interests are affected by this Order may petition for an administrative hearing under sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) by the Agency Clerk in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, MS 35, Tallahassee, Florida, 32399-3000, within **21** days of receipt of this Order. Petitioner, if different from the Mr. Addis Dennis, The Ohio Andersons Inc., P.O. Box 119, Maumee, OH 43537, shall mail a copy of the petition to the Addis Dennis, The Ohio Andersons Inc., P.O. Box 119, Maumee, OH 43537, at the time of filing. Failure to file a petition within this time period shall waive the right of anyone who may request an administrative hearing under sections 120.569 and 120.57, F.S.

Pursuant to subsection 120.569(2), F.S., and Rule 28-106.201, F.A.C., a petition for administrative hearing shall contain the following information:

a) The name, address, and telephone number of each petitioner; the name, address, and telephone number of the petitioner's representative, if any; the site owner's name and address, if different from the petitioner; the DEP facility number; and the name and address of the facility;
b) A statement of when and how each petitioner received notice of the Department's action or proposed action;
c) An explanation of how each petitioner's substantial interests are or will be affected by the Department's action or proposed action;
d) A statement of the disputed issues of material fact, or a statement that there are no disputed facts;
e) A statement of the ultimate facts alleged, including a statement of the specific facts the petitioner contends warrant reversal or modification of the Department's action or proposed action;
f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the Department's action or proposed action; and

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g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the Department to take with respect to the Department's action or proposed action.

This Order is final and effective on the date filed with the Clerk of the Department, which is indicated on the last page of this Order. Timely filing a petition for administrative hearing postpones the date this Order takes effect until the Department issues either a final order pursuant to an administrative hearing or an Order Responding to Supplemental Information provided to the Department pursuant to meetings with the Department.

Judicial Review

Any party to this Order has the right to seek judicial review of it under section 120.68, F.S., by filing a notice of appeal under rule 9.110 of the Florida Rules of Appellate Procedure with the Agency Clerk of the Department in the Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within thirty days after this order is filed with the clerk of the Department (see below).

Questions

Any questions regarding the Department's review of your NFA Proposal should be directed to Kyle Brown, at letter head address, Telephone (561)681-6675, or kyle.p.brown@dep.state.fl.us. Questions regarding legal issues should be referred to the Department's Office of General Counsel at (850)245-2242. Contact with any of the above does not constitute a petition for administrative hearing or request for an extension of time to file a petition for administrative hearing.

Sincerely,

12/23/10

fs Jack Long — Date
District Director
Southeast District

JL/jl/paw/kb

FILING AND ACKNOWLEDGMENT
FILED, on this date, pursuant to §120.52
Florida Statutes, with the designated
Department Clerk, receipt of which is
hereby acknowledged.

DEC 27 2010

Clerk — Date

DRAFT

Attachment (Exhibit 1)
CC:

Brian Dougherty, Ph.D., DEP/TLH, brian.dougherty@dep.state.fl.us
Chad Stevens, Esq., OGC/DEP, chad.r.stevens@dep.state.fl.us
David Plank, Operations Manager, Douglass Fertilizer & Chemical, Inc., 200 State Road 70, West Lake Placid, FL 33852
Ben Foster, P.G., LFR, Inc.: (Ben.Foster@arcadis-us.com)
Stephen Threet, P.G., Bureau of Emergency Response, stephen.threet@dep.state.fl.us
Lorenzo Fernandez, P.E., Broward County Environmental Protection Department lfernandez@broward.org
Nicholas Vitani, P.G., Contamination Impact Coordinator, Florida's Turnpike Enterprise, via email: nick.vitani@dot.state.fl.us
Spencer G. Douglas, Douglas Fertilizer and Chemical Inc., 800 Trafalgar Ct, Suite 320, Maitland, FL 32751
Cathy White, The Andersons Inc., (cathy_white@andersonsinc.com)

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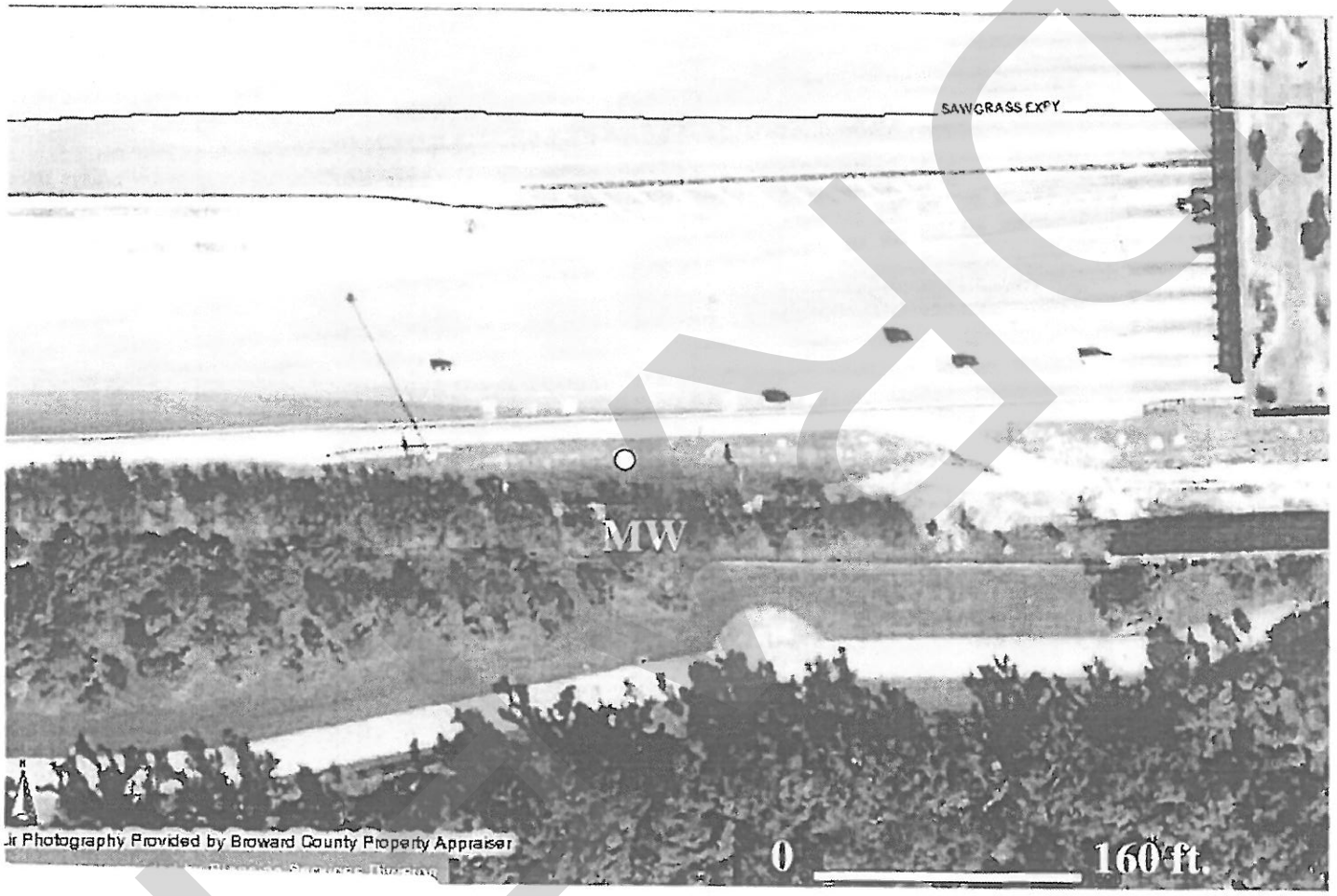

EXHIBIT 1

Monitoring Well Location

Site 11 Chemical Waste Management Pompano
2700 NW 48th Street
FDEP Cleanup 77595814, ERIC_8689
Risk Rating: Low

DRAFT

7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610

BOB GRAHAM
GOVERNOR

JACOB D. VARN
SECRETARY

DAVID PUCHATY
DISTRICT MANAGER

STATE OF FLORIDA

W. K. Hennessey

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

November 14, 1980

RECEIVED
NOV 19 1980
SOLID WASTE
PLANNING

DRAFT

Waste Management, Inc. of Florida
6105 ~~6015~~ Highway 301 North
Tampa, FL 33610

Hillsborough County - S.W.
Waste Management, Inc.
Transfer Station

Dear Sirs:

Enclosed is Permit Number SC29-35949, dated November 14, 1980 to construct subject pollution source issued pursuant to Section 403, Florida Statutes.

Should you object to this permit, including any and all of the conditions contained therein, you may file an appropriate petition for administrative hearing. This petition must be filed within fourteen (14) days of the receipt of this letter. Further, the petition must conform to the requirements of Section 28-5.201, Florida Administrative Code, (see reverse side of this letter). The petition must be filed with the Office of General Counsel, Department of Environmental Regulation, Twin Towers Office Building, 2600 Blair Stone Road, Tallahassee, Florida 32301.

If no petition is filed within the prescribed time, you will be deemed to have accepted this permit and waived your right to request an administrative hearing on this matter.

Acceptance of the permit constitutes notice and agreement that the Department will periodically review this permit for compliance, including site inspections where applicable, and may initiate enforcement action for violation of the conditions and requirements thereof.

PL/scm

cc: Greg Patrick
HCEPC

Enclosure

Sincerely,

W. K. Hennessey
District Manager
Southwest District

DER Form 17-1.122(66) 1/2

7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610

BOB GRAHAM
GOVERNOR

JACOB D. VARN
SECRETARY

DAVID PUCHATY
DISTRICT MANAGER

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

APPLICANT: Waste Management, Inc. of Florida
6105 ~~6015~~ Highway 301 North
Tampa, FL 33610

PERMIT/CERTIFICATION NO. SC29-35949

COUNTY: Hillsborough

PROJECT: Waste Management, I
Solid Waste Transfe
Station For Hazardo
Waste

DRAFT

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Chapter 17-7, Florida Administrative Code. The above named applicant, hereinafter called Permittee, is hereby authorized to perform the work or operate the facility shown on the approved drawing(s), plans, documents, and specifications attached hereto and made a part hereof and specifically described as follows:

Construct a solid waste transfer station for receiving hazardous wastes as defined by the Resource Conservation and Recovery Act of 1976 (RCRA). Hazardous waste will be transported from this facility to a licensed hazardous waste disposal facility in Emelle, Alabama. This facility will be constructed on approximately one (1) acre of land, approximately one-half mile north of the interchange for U. S. Highway 301 and Interstate Highway 4. It can be further located as being within Section 36, Range 19 East and Township 28 South.

PERMIT NO.: SC29-35949
APPLICANT: Waste Management, Inc. of Florida

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions:, and as such are binding upon the permittee and enforceable pursuant to the authority of Section 403.161(1), Florida Statutes. Permittee is hereby placed on notice that the department will review this permit periodically and may initiate court action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.

2. This permit is valid only for the specific processes and operations indicated in the attached drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit shall constitute grounds for revocation and enforcement action by the department.

3. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information: (a) a description of and cause of non-compliance; and (b) the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

4. As provided in subsection 403.087(6), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

5. This permit is required to be posted in a conspicuous location at the work site or source during the entire period of construction or operation.

6. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Section 403.111, F.S.

7. In the case of an operation permit, permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or department rules.

8. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant, or aquatic life or property and penalities therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, except where specifically authorized by an order from the department granting a variance or exception from department rules or state statutes.

9. This permit is not transferable. Upon sale or legal transfer of the property or facility covered by this permit, the permittee shall notify the department within thirty (30) days. The new owner must apply for a permit transfer within thirty (30) days. The permittee shall be liable for any non-compliance of the permitted source until the transferee applies for and receives a transfer of permit.

10. The permittee, by acceptance of this permit, specifically agrees to allow access to permitted source at reasonable times by department personnel presenting credentials for the purposes of inspection and testing to determine compliance with this permit and department rules.

11. This permit does not indicate a waiver of or approval of any other department permit that may be required for other aspects of the total project.

12. This permit conveys no title to land or water, nor constitutes state recognition or acknowledgement of title, and does not constitute authority for the reclamation of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.

13. This permit also constitutes:

[ ] Determination of Best Available Control Technology (BACT)
[ ] Determination of Prevention of Significant Deterioration (PSD)
[ ] Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)

DRAFT

PERMIT NO.: SC29-35949
APPLICANT: Waste Management, Inc. of Florida

SPECIFIC CONDITIONS:

1. This permit does not relieve the applicant of the responsibility to obtain necessary permits, licenses or approvals from other governmental agencies.

2. The operation of this facility is subject to adherence to all applicable Department of Environmental Regulation rules and Federal, State or local regulations.

3. All objectionable odors emanating from the site shall be controlled immediately.

4. Access to the site shall be controlled to prevent unauthorized entry. Access shall be allowed only when an attendant is on duty.

5. If normal operations are interrupted for a period of forty-eight (48) hours, verbal notification shall be made to Hillsborough County Environmental Protection Commission and DER immediately with a follow-up letter explaining what caused the problem. what is being done to correct the problems and what interim emergency actions have been taken, if any.

6. At least sixty (60) days prior to the expiration date of this permit, the applicant shall submit an operating permit application for the continued operation of this facility.

DRAFT

PERMIT NO.: SC29-35949
APPLICANT: Waste Management, Inc. of Florida

DRAFT

Expiration Date: November 1, 1981

Issued this 14th day of November, 19 80.

_____ Pages Attached.

PL/scm

cc: Greg Patrick
HCEPC

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

W K Hennessey
Signature

W. K. Hennessey
District Manager
Southwest District

FORM 1 GENERAL

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Permits Program

(Read the "General Instructions" before starting.)

I. EPA I.D. NUMBER: F L D 0 0 0 7 7 6 7 0 8

LABEL ITEMS

I. EPA I.D. NUMBER

III. FACILITY NAME

V. FACILITY MAILING ADDRESS

VI. FACILITY LOCATION

PLEASE PLACE LABEL IN THIS SPACE

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent *(the area to the left of the label space lists the information that should appear)*, please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete Items I, III, V, and VI *(except VI-B which must be completed regardless)*. Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.

SPECIFIC QUESTIONS	MARK 'X' YES	NO	FORM ATTACHED
A. Is this facility a **publicly owned treatment works** which results in a **discharge** to **waters of the U.S.**? (FORM 2A)		X	
B. Does or will this facility *(either existing or proposed)* include a **concentrated animal feeding operation** or **aquatic animal production facility** which results in a **discharge** to **waters of the U.S.**? (FORM 2B)		X	
C. Is this a facility which currently results in discharges to **waters of the U.S.** other than those described in A or B above? (FORM 2C)		X	
D. Is this a proposed facility *(other than those described in A or B above)* which will result in a **discharge** to **waters of the U.S.**? (FORM 2D)		X	
E. Does or will this facility treat, store, or dispose of **hazardous wastes**? (FORM 3)	X		
F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X	
H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
I. Is this facility a proposed **stationary source** which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an **attainment area**? (FORM 5)		X	
J. Is this facility a proposed **stationary source** which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an **attainment area**? (FORM 5)		X	

III. NAME OF FACILITY

1 SKIP: CHEMICAL WASTE MANAGEMENT - POMPANO

IV. FACILITY CONTACT

A. NAME & TITLE *(last, first, & title)*	B. PHONE *(area code & no.)*
2 HUDSON WHIT DISTRICT MANAGER	305 974 7500

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX	B. CITY OR TOWN	C. STATE	D. ZIP CODE
3 2700 N.W. 48TH ST	4 POMPANO BEACH	FL	33067

On File

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER	B. COUNTY NAME	C. CITY OR TOWN	D. STATE	E. ZIP CODE	F. COUNTY CODE *(if known)*
5 2700 N.W. 48TH ST.	BROWARD	6 POMPANO BEACH	FL	33067	

CONTINUE ON REVERSE

3 RCRA

EPA

HAZARDOUS WASTE PERMIT APPLICATION

Consolidated Permits Program

(This information is required under Section 3005 of RCRA.)

I.D. NUMBER: F F L D 0 0 0 7 7 6 7 0 8 — T/A: — C: 1

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED (yr., mo., & day)	COMMENTS

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below *(mark one box only)* to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number in Item I above.

A. FIRST APPLICATION *(place an "X" below and provide the appropriate date)*

[X] 1. EXISTING FACILITY *(See instructions for definition of "existing" facility. Complete item below.)*

FOR EXISTING FACILITIES, PROVIDE THE DATE *(yr., mo., & day)* OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED *(use the boxes to the left)*

C	YR.	MO.	DAY
8	8 0	1 1	1 7

[ ] 2. NEW FACILITY *(Complete item below.)*

FOR NEW FACILITIES, PROVIDE THE DATE *(yr., mo., & day)* OPERATION BEGAN OR IS EXPECTED TO BEGIN

YR.	MO.	DAY

B. REVISED APPLICATION *(place an "X" below and complete Item I above)*

[ ] 1. FACILITY HAS INTERIM STATUS

[ ] 2. FACILITY HAS A RCRA PERMIT

III. PROCESSES – CODES AND DESIGN CAPACITIES

A. **PROCESS CODE** – Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process *(including its design capacity)* in the space provided on the form *(Item III-C)*.

B. **PROCESS DESIGN CAPACITY** – For each code entered in column A enter the capacity of the process.

1. AMOUNT – Enter the amount.
2. UNIT OF MEASURE – For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:		
CONTAINER *(barrel, drum, etc.)*	S01	GALLONS OR LITERS
TANK	S02	GALLONS OR LITERS
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS
Disposal:		
INJECTION WELL	D79	GALLONS OR LITERS
LANDFILL	D80	ACRE-FEET *(the volume that would cover one acre to a depth of one foot)* OR HECTARE-METER
LAND APPLICATION	D81	ACRES OR HECTARES
OCEAN DISPOSAL	D82	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	D83	GALLONS OR LITERS
Treatment:		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR
OTHER *(Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Item III-C.)*	T04	GALLONS PER DAY OR LITERS PER DAY

UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G
LITERS	L
CUBIC YARDS	Y
CUBIC METERS	C
GALLONS PER DAY	U
LITERS PER DAY	V
TONS PER HOUR	D
METRIC TONS PER HOUR	W
GALLONS PER HOUR	E
LITERS PER HOUR	H
ACRE-FEET	A
HECTARE-METER	F
ACRES	B
HECTARES	Q

EXAMPLE FOR COMPLETING ITEM III *(shown in line numbers X-1 and X-2 below)*: A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

C DUP — T/A — C: 1

LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify)	B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY	LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT	B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY
X-1	S 0 2	600	G		5				
X-2	T 0 3	20	E		6				
1	S 0 1	8800	G		7				
2					8				
3					9				
4					10				

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NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)														FOR OFFICIAL USE ONLY				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	23	-	26	
W	F	L	D	0	0	0	7	7	6	7	0	8	T/A	C	DUP	T/A	C	DUP
														1			2	

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (If a code is not entered in D(1))
	23 - 26	27 - 35	36	27 - 29 / 27 - 29 / 27 - 29 / 27 - 29	
1	U226	900	P	S01	
2	U220	500	P	S01	
3	U002	500	P	S01	
4	U159	500	P	S01	
5	F017	9000	P	S01	
6	F018	32,000	P	S01	
7	U238	1000	P	S01	
8					
9					
10					
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12					
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15					
16					
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19					
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21					
22					
23					
24					
25					
26					

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FLD000776708 | 1 | W | DUP | 2 | DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)				D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	D001	11,440	T	S01				
2	D002	11,440	T	S01				
3	D003	11,440	T	S01				
4	D004	11,440	T	S01				
5	D005	11,440	T	S01				
6	D006	11,440	T	S01				
7	D007	11,440	T	S01				
8	D008	11,440	T	S01				
9	D009	11,440	T	S01				
10	D010	11,440	T	S01				
11	D011	11,440	T	S01				
12	D012	11,440	T	S01				
13	D013	11,440	T	S01				
14	D014	11,440	T	S01				
15	D015	11,440	T	S01				
16	D016	11,440	T	S01				
17	D017	11,440	T	S01				
18	F001	11,440	T	S01				
19	F002	11,440	T	S01				
20	F003	11,440	T	S01				
21	F005	11,440	T	S01				
22	F006	11,440	T	S01				
23	F007	11,440	T	S01				
24	F008	11,440	T	S01				
25	F009	11,440	T	S01				
26								

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EPA Form 3510-3 (6-80)

CONTINUE ON REVERSE

(enter "A", "B", "C", etc. behind the "3" to identify photocopied pages)

FL0009776708 | 1 | W | DUP | 2 | DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	F010	11,440	T	S01	
2	F011	11,440	T	S01	
3	F012	11,440	T	S01	
4	F013	11,440	T	S01	
5	F014	11,440	T	S01	
6	F016	11,440	T	S01	
7	K001	11,440	T	S01	
8	K002	11,440	T	S01	
9	K003	11,440	T	S01	
10	K004	11,440	T	S01	
11	K005	11,440	T	S01	
12	K006	11,440	T	S01	
13	K007	11,440	T	S01	
14	K008	11,440	T	S01	
15	K009	11,440	T	S01	
16	K010	11,440	T	S01	
17	K011	11,440	T	S01	
18	K012	11,440	T	S01	
19	K013	11,440	T	S01	
20	K014	11,440	T	S01	
21	K015	11,440	T	S01	
22	K017	11,440	T	S01	
23	K018	11,440	T	S01	
24	K019	11,440	T	S01	
25	K020	11,440	T	S01	
26					

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EPA Form 3510-3 (6-80)

CONTINUE ON REVER

(enter "A", "B", "C", etc. behind the "J" to identify photocopied pages)

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

No. (a)	A. EPA HAZARDOUS WASTE NO. (enter code) (b)	B. ESTIMATED ANNUAL QUANTITY OF WASTE (b)	C. UNIT OF MEASURE (enter code) (c)	D. PROCESSES 1. PROCESS CODES (enter) (d)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1)) (e)
1	K021	11,440	P	S01	
2	K022	11,440	P	S01	
3	K023	11,440	P	S01	
4	K024	11,440	P	S01	
5	K026	11,440	P	S01	
6	K028	11,440	P	S01	
7	K029	11,440	P	S01	
8	K030	11,440	P	S01	
9	K031	11,440	P	S01	
10	K032	11,440	P	S01	
11	K037	11,440	P	S01	
12	K038	11,440	P	S01	
13	K039	11,440	P	S01	
14	K040	11,440	P	S01	
15	K041	11,440	P	S01	
16	K048	11,440	P	S01	
17	K049	11,440	P	S01	
18	K050	11,440	P	S01	
19	K051	11,440	P	S01	
20	K052	11,440	P	S01	
21	K053	11,440	P	S01	
22	K054	11,440	P	S01	
23	K055	11,440	P	S01	
24	K056	11,440	P	S01	
25	K057	11,440	P	S01	

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D. DESCRIPTION OF HAZARDOUS WASTES (continued)

	D. 1. EPA HAZARDOUS WASTE NO.	D. 2. ESTIMATED ANNUAL QUANTITY OF WASTE	D. 3. UNIT OF MEASURE (enter code)	D. 4. PROCESSES: 1. PROCESS CODES (enter)	D. 4. PROCESSES: 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	K058	11,440	T	S01	
2	K059	11,440	T	S01	
3	K060	11,440	T	S01	
4	K061	11,440	T	S01	
5	K062	11,440	T	S01	
6	K063	11,440	T	S01	
7	K064	11,440	T	S01	
8	K065	11,440	T	S01	
9	K066	11,440	T	S01	
10	K067	11,440	T	S01	
11	K068	11,440	T	S01	
12	K069	11,440	T	S01	
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

DRAFT

EPA I.D. NUMBER (enter from page 1)

														T/A	C
W	F	L	D	0	0	0	7	7	6	7	0	8			1

														T/A	C	
W	D	U	P												2	DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

U.O.M.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	D002	37.50	T	S01	
2	F001	21	T	S01	
3	F002	4	T	S01	
4	F003	19	T	S01	
5	F005	45	T	S01	
6	K078	27	T	S01	
7	K079	29.70	T	S01	
8	K080	8.10	T	S01	
9	K081	13.50	T	S01	
10	K082	2.70	T	S01	
11	F017	10.92	T	S01	
12	FG18				INCL. ABOVE
13	F001	1083	T	S01	
14	F002				INCL. ABOVE
15	F003				"
16	F006				"
17	F007				"
18	F008				"
19	F009				"
20	P030				"
21	P029				"
22	P121				"
23					
24					
25					
26					

DRAFT

Waste Management, Inc.
900 Jorie Boulevard • Oak Brook, Illinois 60521

December 8, 1980

Mr. Ray Cozart
EPA Region IV
RCRA Activities
345 Courtland, N.E.
Atlanta, Georgia 30365

Dear Mr. Cozart:

Enclosed, please find an amendment to the Part A Application for Chemical Waste Management - Pompano. Listed are additional waste streams to include in our handling capabilities.

If you have any questions, please contact me.

Sincerely,

Judy Rosenbeck

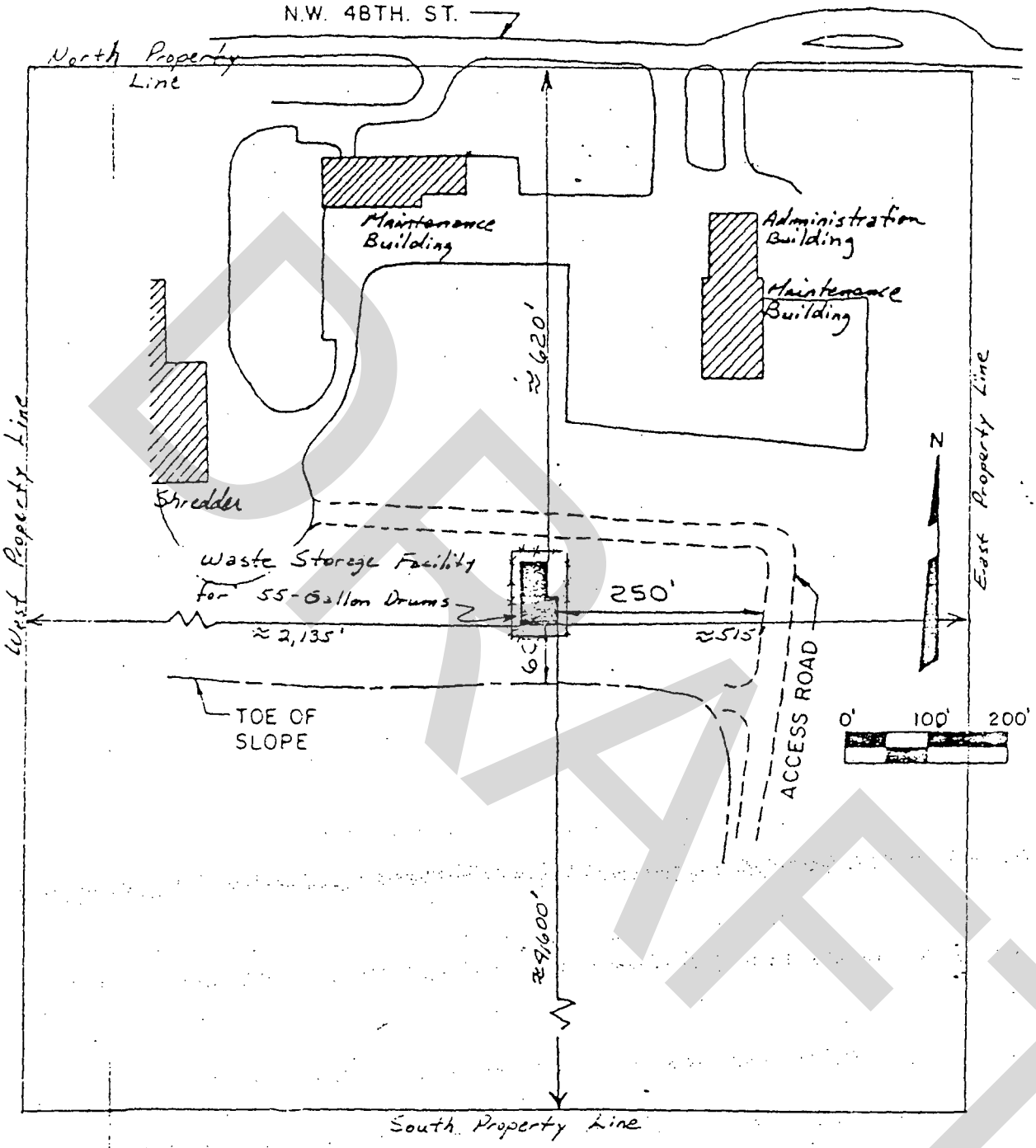
Judy Rosenbeck
Staff Engineer

JR/lf

enclosure

DRAFT

312/654-8800 • Telex: 253094 • TWX: 910-651-0029



DRAFT

C.W.M.I. - FLORIDA, POMPANO
FLD. 000776708

FORM 3 RCRA

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

HAZARDOUS WASTE PERMIT APPLICATION

Consolidated Permits Program

(This information is required under Section 3005 of RCRA.)

I. EPA I.D. NUMBER

1	2	3	4	5	6	7	8	9	10	11	12	T/A	C	
F	F	L	D	0	0	0	7	7	6	7	0	8		1

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED (yr., mo., & day)	COMMENTS
23	24 - 29	

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below *(mark one box only)* to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number in Item I above.

A. FIRST APPLICATION *(place an "X" below and provide the appropriate date)*

[X] 1. EXISTING FACILITY *(See instructions for definition of "existing" facility. Complete item below.)* (71)

[ ] 2. NEW FACILITY *(Complete item below.)* (71)

FOR EXISTING FACILITIES, PROVIDE THE DATE (yr., mo., & day) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED *(use the boxes to the left)*

C	YR.	MO.	DAY
8	8 0	1 1	1 7
15	73 74	75 76	77 78

FOR NEW FACILITIES, PROVIDE THE DATE (yr., mo., & day) OPERATION BEGAN OR IS EXPECTED TO BEGIN

YR.	MO.	DAY
73 74	75 76	77 78

B. REVISED APPLICATION *(place an "X" below and complete Item I above)*

[X] 1. FACILITY HAS INTERIM STATUS (72)

[ ] 2. FACILITY HAS A RCRA PERMIT (72)

III. PROCESSES – CODES AND DESIGN CAPACITIES

A. PROCESS CODE – Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process *(including its design capacity)* in the space provided on the form *(Item III-C)*.

B. PROCESS DESIGN CAPACITY – For each code entered in column A enter the capacity of the process.

1. AMOUNT – Enter the amount.
2. UNIT OF MEASURE – For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:		
CONTAINER *(barrel, drum, etc.)*	S01	GALLONS OR LITERS
TANK	S02	GALLONS OR LITERS
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS
Disposal:		
INJECTION WELL	D79	GALLONS OR LITERS
LANDFILL	D80	ACRE-FEET *(the volume that would cover one acre to a depth of one foot)* OR HECTARE-METER
LAND APPLICATION	D81	ACRES OR HECTARES
OCEAN DISPOSAL	D82	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	D83	GALLONS OR LITERS

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Treatment:		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR
OTHER *(Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Item III-C.)*	T04	GALLONS PER DAY OR LITERS PER DAY

UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G
LITERS	L
CUBIC YARDS	Y
CUBIC METERS	C
GALLONS PER DAY	U
LITERS PER DAY	V
TONS PER HOUR	D
METRIC TONS PER HOUR	W
GALLONS PER HOUR	E
LITERS PER HOUR	H
ACRE-FEET	A
HECTARE-METER	F
ACRES	B
HECTARES	Q

EXAMPLE FOR COMPLETING ITEM III *(shown in line numbers X-1 and X-2 below)*: A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	D	U	P										T/A	1

LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify)	B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY
	16 - 18	19 - 27	28	29 - 32
X-1	S 0 2	600	G	
X-2	T 0 3	20	E	
1	S 0 1	8800	G	
2				
3				
4				

LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT	B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY
	16 - 18	19 - 27	28	29 - 32
5				
6				
7				
8				
9				
10				

PROPOSED

C. SPACE FOR ADDITIONAL PROCESS CODES . . . FOR DESCRIBING OTHER PROCESSES *(code "T04")*. FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

IV. DESCRIPTION OF HAZARDOUS WASTES

A. **EPA HAZARDOUS WASTE NUMBER** — Enter the four—digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four—digit number*(s)* from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

B. **ESTIMATED ANNUAL QUANTITY** — For each **listed waste** entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each **characteristic** or **toxic contaminant** entered in column A estimate the total annual quantity of all the non—listed waste*(s)* that will be handled which possess that characteristic or contaminant.

C. **UNIT OF MEASURE** — For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. **PROCESSES**

1. PROCESS CODES:
   For listed hazardous waste: For each **listed** hazardous waste entered in column A select the code*(s)* from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.
   For non—listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code*(s)* from the list of process codes contained in Item III to indicate **all** the processes that will be used to store, treat, and/or dispose of all the non—listed hazardous wastes that possess that characteristic or toxic contaminant.
   Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code*(s)*.

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: **HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER** — Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B,C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV *(shown in line numbers X-1, X-2, X-3, and X-4 below)* — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non—listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	K 0 5 4	900	P	T 0 3 D 8 0	
X-2	D 0 0 2	400	P	T 0 3 D 8 0	
X-3	D 0 0 1	100	P	T 0 3 D 8 0	
X-4	D 0 0 2				included with above

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Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)														FOR OFFICIAL USE ONLY				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
W	F	L	D	0	0	0	7	7	6	7	0	8	T/A	C	W	DUP	T/A	C	DUP
														1				2	

IV. DESCRIPTION OF HAZARDOUS WASTES *(continued)*

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	U226	900	P	S01	
2	U220	500	P	S01	
3	U002	500	P	S01	
4	U159	500	P	S01	
5	F017	9000	P	S01	
6	F018	32,000	P	S01	
7	U238	1000	P	S01	
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

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Continued from the front.

IV. DESCRIPTION OF HAZARDOUS WASTES *(continued)*

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 3.

EPA I.D. NO. *(enter from page 1)*

1	F	L	D	0	0	0	7	7	6	7	0	8	T/A	6

V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

VI. PHOTOGRAPHS

All existing facilities must include photographs *(aerial or ground—level)* that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas *(see instructions for more detail)*.

VII. FACILITY GEOGRAPHIC LOCATION

LATITUDE *(degrees, minutes, & seconds)*	LONGITUDE *(degrees, minutes, & seconds)*
26 17 150	080 09 550

VIII. FACILITY OWNER

☒ A. If the facility owner is also the facility operator as listed in Section VIII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VIII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER	2. PHONE NO. *(area code & no.)*
E	

3. STREET OR P.O. BOX	4. CITY OR TOWN	5. ST.	6. ZIP CODE
F	G		

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME *(print or type)*	B. SIGNATURE	C. DATE SIGNED
Frank R. Krohn, Assistant Secretary Waste Management, Inc. of Florida		12-8-80

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME *(print or type)*	B. SIGNATURE	C. DATE SIGNED
Frank R. Krohn, Assistant Secretary Waste Management, Inc. of Florida		12-8-80

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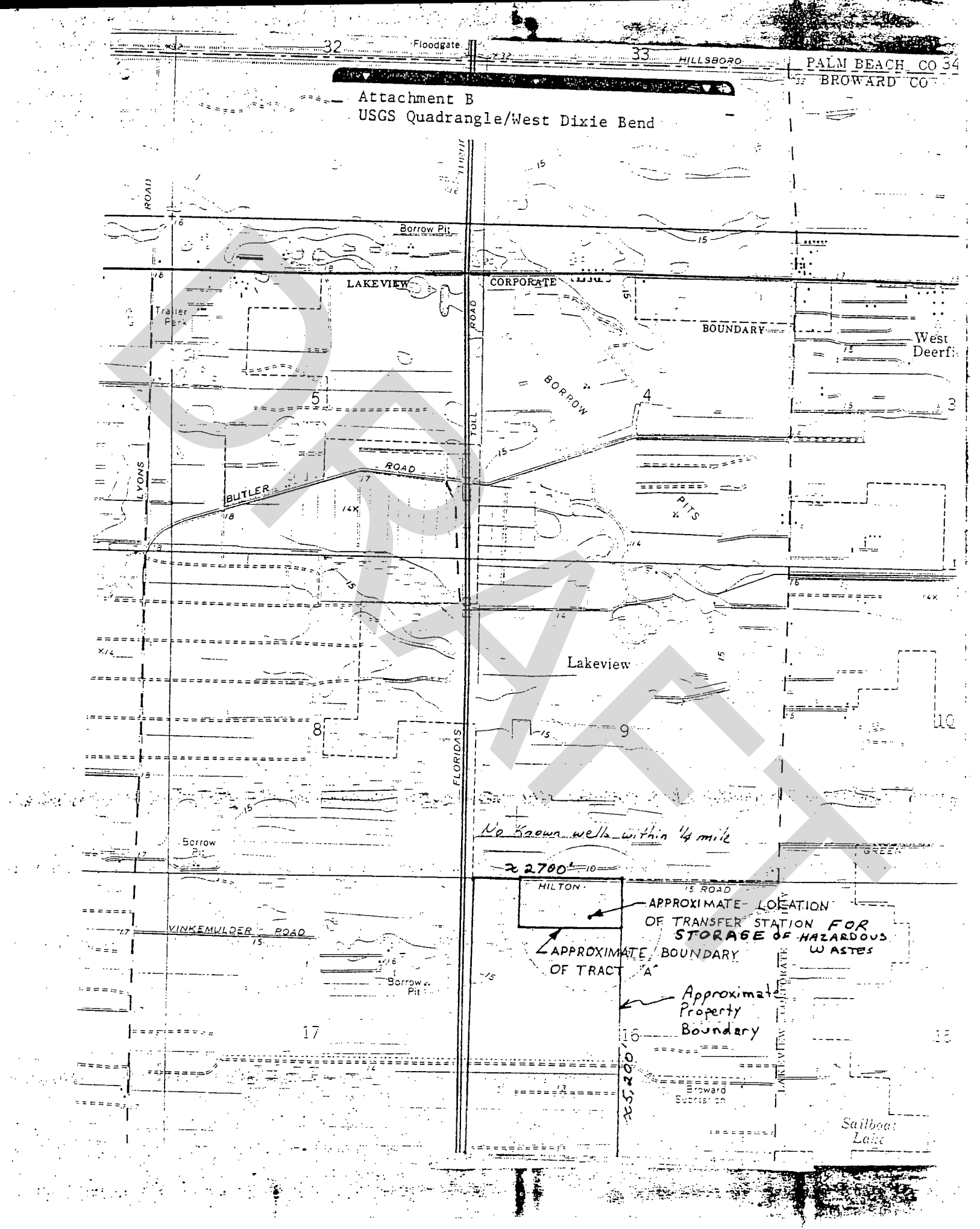
Attachment B
USGS Quadrangle/West Dixie Bend



RECEIVED
AUG 13 1985
Hazardous Waste

CONTINGENCY PLAN

for

THE OCEAN INCINERATION OPERATIONS

of

THE VULCANUS I AND VULCANUS II

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EFFECTIVE PERIOD

This plan and the procedures set forth therein will be effective whenever either of the above named vessels is engaged in any operations pursuant to an ocean incineration permit issued by the United States Environmental Protection Agency under Title I of the Marine Protection, Research, and Sanctuaries Act of 1972, 33 U.S.C. 1401 et seq., as amended, and implementing regulations and will continue in effect until the expiration of the applicable permit or cessation of operations thereunder.

This plan supercedes a previous plan dated 26 September, 1983, which should be destroyed.

Prepared and Issued by:

CHEMICAL WASTE MANAGEMENT, Inc.

and

OCEAN COMBUSTION SERVICE, BV

CHEMICAL WASTE MANAGEMENT
FLD000776708
PRELIMINARY REASSESSMENT

A. SITE DESCRIPTION. Chemical Waste Management (CWM) is located at 2700 Northwest 48th Street, Pompano Beach, Broward County, Florida (Fig.1) [1,2,3]. A transfer station to store hazardous waste prior to final waste handling at their Emelle, Alabama facility is operated on-site [1,2].

B. DESCRIPTION OF HAZARDOUS CONDITIONS. The CWM storage facility has a total storage capacity of 160 containers with a provision for emergency storage of 20 additional drums in an emergency bay. The maximum permitted storage time is 90 days [2].

C. RCRA STATUS. CWM is a permitted storage facility of RCRA hazardous waste [1,2,3].

D. RECOMMENDATIONS AND JUSTIFICATIONS. Because the site has RCRA TSD status it is ineligible for regulation under CERCLA at this time and is given a No Further Action priority for a CERCLA/SARA Site Screening Inspection.

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1:24000

0 ½ 1 MILE

N

SITE LOCATION MAP
Chemical Waste Management
Broward County

USGS QUAD West Dixie Bend, FL
PR/1983

FIGURE 1

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

IDENTIFICATION
01 STATE: FL | 02 SITE NUMBER: D000776708

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
Chemical Waste Management	2700 Northwest 48th Street				
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 COUNTY**	**07 COUNTY CODE**	**08 CONG DIST**
Pompano Beach	FL	33067	Broward	011	17

09 COORDINATES: LATITUDE 26°17'15" | LONGITUDE 80°09'40"

10 DIRECTIONS TO SITE (Starting from nearest public road)- From I-95 go west on Hillsboro Blvd. to Powerline Road (approximately 2.25 miles). Turn left and go to N.W. 48th St. and take a right. Chemical Waste Management will be on the left (approximately 0.7 mile).

RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)		
Chemical Waste Management	2700 Northwest 48th Street		
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 TELEPHONE NUMBER**
Pompano Beach	FL	33067	(305) 973-6666
07 OPERATOR (If known and different from owner)	**08 STREET (Business, mailing, residential)**		
Bob Hubert, Technical Manager [1,2]	2700 Northwest 48th Street		
09 CITY	**10 STATE**	**11 ZIP CODE**	**12 TELEPHONE NUMBER**
Pompano Beach	FL	33067	(305) 973-6666

13 TYPE OF OWNERSHIP (Check one)
X A. PRIVATE __ B. FEDERAL: _____ (Agency Name) __ C. STATE __ D. COUNTY __ E. MUNICIPAL
__ F. OTHER: _____ (Specify) __ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
__ A. RCRA 3001 DATE RECEIVED: __/__/__ (MONTH DAY YEAR) __ B. UNCONTROLLED WASTE SITE (Cercla 103 c) DATE RECEIVED: __/__/__ (MONTH DATE YEAR) X C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
X YES DATE 01/08/88 (MONTH DAY YEAR)
__ NO

BY (Check all that apply)
__ A. EPA __ B. EPA CONTRACTOR X C. STATE __ D. OTHER CONTRACTOR
__ E. LOCAL HEALTH OFFICIAL __ OTHER: _____ (Specify)
CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)
X A. ACTIVE __ B. INACTIVE __ C. UNKNOWN

03 YEARS OF OPERATION
1981 (BEGINNING YEAR) | Present [2] (ENDING YEAR) __ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
A transfer station to store hazarouds waste prior to final waste handling at their Emelle, Alabama facility is operated on-site [1,2]. Total storage capacity is 160 drums with a provision for emergency storage of 20 additional drums. The maximum permitted storage time is 90 days [2].

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
N/A--Chemical Waste Management is a permitted storage facility of RCRA hazardous waste and is ineligible for regulation under CERCLA [1,2].

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 3-Description of Conditions)
__ A. HIGH (Inspection required promptly) __ B. MEDIUM (Inspection Required) __ C. LOW (Inspect on time available basis) X D. NONE (No further action needed, complete disposition form)

VI. INFORMATION AVAILABLE FROM

01 Contact	02 OF (Agency Organization)			03 Telephone Number
Eric S. Nuzie	FDER/BWC			(904)488-0190
04 Person Responsible for Assessment	**05 Agency**	**06 Organization**	**07 Tel. No.**	**08 Date**
Mary L. Lubinski	FDER	BWC	(904)488-0190	10/25/88 (Mo. DAY YEAR)

EPA FORM 2070-12(7-81)

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References
Chemical Waste Management
FLD000776708
Preliminary Reassessment

Reference Number	Description of Reference
1.	FDER Hazardous Waste Inspection Report, 1/8/88.
2.	FDER Lab Ban Inspection Report, 9/23/87. Chemical Waste Management.
3.	RCRA Facility Permit Application Tracking Log--Active Facilities Application List, 9/7/88.

DRAFT

Site 12 Central Sanitary Landfill and Recycling Center
1801 SW 45 Way
DEP Cleanup Sites 77155916, ERIC 8682
Risk Rating: Low

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MARTY KIAR
BROWARD COUNTY
PROPERTY APPRAISER

Site Address	1801 SW 45 WAY, DEERFIELD BEACH FL 33442	ID #	4842 09 23 0016
Property Owner	RMT-SDE-2 LLC	Millage	1112
Mailing Address	7472 19 MILE RD STERLING HEIGHTS MI 48314	Use	67

Abbr Legal Description	LEDDS ADDITION 176-33 B 9-48-42 POR PAR A DESC AS: COMM SW COR OF PAR A, N 297.72 TO POB, N 186.77, E 60.02, N 150.06, W 60.02, N 58.81, E 1207.99 TO P/C, SLY ALG ARC DIST 406.07, W 1307.44 TO POB

The just values displayed below were set in compliance with Sec. 193.011, Fla. Stat., and include a reduction for costs of sale and other adjustments required by Sec. 193.011(8).

* 2024 values are considered "working values" and are subject to change.

Property Assessment Values

Year	Land	Building / Improvement	Agricultural Savings	Just / Market Value	Assessed / SOH Value	Tax
2024	$4,913,570		$4,241,700	$671,870	$671,870	
2023	$4,913,570		$4,241,700	$671,870	$671,870	
2022	$4,913,570		$4,241,700	$671,870	$671,870	$13,792.07

2024 Exemptions and Taxable Values by Taxing Authority

	County	School Board	Municipal	Independent
Just Value	$671,870	$671,870	$671,870	$671,870
Portability	0	0	0	0
Assessed/SOH	$671,870	$671,870	$671,870	$671,870
Homestead	0	0	0	0
Add. Homestead	0	0	0	0
Wid/Vet/Dis	0	0	0	0
Senior	0	0	0	0
Exempt Type	0	0	0	0
Taxable	$671,870	$671,870	$671,870	$671,870

Sales History

Date	Type	Price	Book/Page or CIN
9/28/2021	SWD-T	$100	117639886

Land Calculations

Price	Factor	Type
$1,000	9.76	BB
$435,600	1.52	AC
$435,600	9.76	AG
Adj. Bldg. S.F.		

Special Assessments

Fire	Garb	Light	Drain	Impr	Safe	Storm	Clean	Misc
11			2					
L			2					
1								

DRAFT

Site 13 Monarch Hill
2700 Wiles Road
Facility ID: 8622531
Risk Rating: Medium

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WASTE MANAGEMENT

MONARCH HILL
2700 Wiles Road
Pompano Beach, FL 33073

July 05, 2019

Mr. Amede Dimonnay
Broward County Environmental Protection and Growth Management Department
Environmental Engineering and Permitting Division
One North University Drive, Mailbox 201
Plantation, FL 33324-2038

RE: Report Concerning Accidental Release of Leachate
Waste Management Inc. of Florida, Monarch Hill
Solid Waste Management License Number SW-LF00076-16-01

Dear Mr. Dimonnay:

This serves as the 3-day post incident report concerning the accidental leachate release at Monarch Hill located in Pompano Beach that occurred on July 2, 2019.

On July 2, 2019 at 7:15 AM site personnel observed an above-ground flanged fitting on the leachate force main on the north side of the property approximately 2,072 feet from the east property boundary and 987 feet from the north property boundary was leaking (see figure). Site personnel immediately shut down the force main and isolated the section at the closest valve stations where the accidental release occurred. Once the force main section was isolated cleanup actions commenced. It was observed that while most of the leachate remained on soil near the flanged fitting some leachate entered the storm water retention area approximately 340 feet east of the accidental release location.

Response Actions

Site personnel immediately notified the site supervisor and started to mobilize resources to perform emergency response cleanup activities. An onsite vacuum truck service and an onsite contractor were mobilized to the affected area and began abatement and cleanup operations of leachate in contact with the ground and surface water in the retention basin. The contractor created an earth berm to isolate the travel of the liquid from the ground near the release location to the retention basin and the vacuum truck began removing the liquid on the ground. The affected ground area is estimated to be approximately 6,000 square feet (300 ft by 20 ft). While the vacuum service was removing the leachate on the soil, the earthwork contractor used an excavator to create an isolation berm in the surface water retention area to minimize the impact of leachate on the surface water. Once the liquid on the soil was removed the vacuum truck moved to the surface water retention area and began removing the leachate mixed with surface water.

After the initial emergency response and while cleanup operations were taking place, site personnel performed an assessment of the potential of the release. It was determined that at time

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of the initial observation and shutdown of the force main the released liquid was over 1,000 gallons with less than 200 gallons having reached the surface water retention area. Based on the vacuum truck capacity of 3,200 gallons and the volume of leachate and soil removed from the ground we determine the maximum amount of leachate released was 3,500 gallons.

The earthwork contractor removed 4-6 inches of soil from the affected 6,000 sf area relocating it to the lined landfill for disposal. The soil in the swale that encountered the leachate was removed and taken to the active face of the landfill to be disposed. The total soil removed was approximately 810 cubic yards. Approximately 32,000 gallons of potentially leachate-impacted water was removed via vacuum truck from the surface water retention area to date.

Assessment Activities

Monarch Hill has engaged SCS Engineers to help perform the appropriate assessment of the affected areas. Assessment activities will likely include collecting soil samples from the surface affected area and the surface water retention swale to be analyzed for typical leachate indicator parameters to determine if additional soil removal is required.

Clean soil will be placed back in the swale as needed to comply with storm water grade requirements after all samples have been taken and confirmed to meet the soil clean up target levels.

Root Cause and Preventive Measures

Initial assessment of the cause of the leak indicated that a gasket or blind flange failed on the high-density polyethylene (plastic) leachate force main above ground clean-out component. The blind flange and gasket were removed and replaced. The parts showed no visual sign of damage or fatigue that would indicate a cause of failure. Further evaluation revealed that the plastic blind flange may have warped due to the ambient warm temperatures and operating pressure of the force main pipe. The operating pressure of the force main is approximately 80 psi and the pipe and components are rated for 150 psi. We suspect that while the components did not fail in and of themselves, the deflection from temperature and pressure variation cycles may have allowed the blind flange to creep, reducing the sealing surface and eventually allowing the liquid to escape.

As an immediate preventive measure, Monarch Hill installed a stiffener bracket across the blind flange to prevent deflection from occurring. Working with our pipe manufacturer and supplier we are creating an order to replace all the clean-out components of the leachate transmission system with more rigid blind flanges.

While Monarch Hill has over 30 blind flanges working under the same pressure and temperature conditions we have not experienced a failure of this magnitude. Additional evaluation of the performance characteristics of the components in question will be undertaken. Replacement of the blind flanges to more rigid flanges will help us ensure we will not experience another failure.

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While this release was unfortunate, there were no off-site impacts and the cleanup response was immediate and effective due to the presence of equipment and personnel on site. We do not believe that this incident will have any negative environmental impact on this area of the landfill.

If you have any questions, or require additional information, please contact me at (954) 984-2054 or Craig Ash at (954) 882-4818.

Sincerely,

Jeff Roccapriore
District Manager

cc: Christopher Carey - WMIF
Craig Ash – WMIF
Myles Clewner – SCS Engineers

DRAFT

WASTE MANAGEMENT

MONARCH HILL
2700 Wiles Road
Pompano Beach, FL 33073



DW

P 788 961 571

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to: Gerhardt M. Witt	
Street and No. P.O. Box 9626	
P.O., State and ZIP Code Ft. Lauderdale, FL 33310	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date FEB 5 1988	

JAJ jdd 1179
City of Coral Springs
#88-0269

PS Form 3800, June 1985

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UNITED STATES POSTAL SERVICE

OFFICIAL BUSINESS

SENDER INSTRUCTIONS

Print your name, address, and ZIP Code in the space below.

- Complete items 1, 2, 3, and 4 on the reverse.
- Attach to front of article if space permits, otherwise affix to back of article.
- Endorse article "Return Receipt Requested" adjacent to number.

U.S.MAIL

PENALTY FOR PRIVATE USE, $300

RETURN TO

Print Sender's name, address, and ZIP Code in the space below.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
1900 SOUTH CONGRESS AVE., SUITE A
WEST PALM BEACH, FL 33406

DRAFT

DEPARTMENT OF ENVIRONMENTAL REG. WEST PALM BEACH

RECEIVED 9 JAN 82

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. †(Extra charge)†
2. ☐ Restricted Delivery †(Extra charge)†

3. Article Addressed to:

Mr. Gerhardt + Witt PG
Camp, Presser + McKee Inc.
P.O. Box 9626
Ft Lauderdale, FL 33310

4. Article Number

P 788 961 571

Type of Service:

☐ Registered ☐ Insured
☑ Certified ☐ COD
☐ Express Mail

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee

X

6. Signature — Agent

X

7. Date of Delivery

FEB 8 1988

8. Addressee's Address *(ONLY if requested and fee paid)*

PS Form 3811, Mar. 1987 * U.S.G.P.O. 1987-178-268 **DOMESTIC RETURN RECEIPT**

DRAFT

LD

P 788 961 564

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to	Gerhardt M. Witt
Street and No	P.O. Box 9626
P.O., State and ZIP Code	Ft Lauderdale, FL 3336
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	FEB 2 1989

JAJ:jdd/179 87-0169
City of Coral Springs

PS Form 3800, June 1985

DRAFT

UNITED STATES POSTAL SERVICE
OFFICIAL BUSINESS

SENDER INSTRUCTIONS
Print your name, address, and ZIP Code in the space below.
- Complete items 1, 2, 3, and 4 on the reverse.
- Attach to front of article if space permits, otherwise affix to back of article.
- Endorse article "Return Receipt Requested" adjacent to number.

U.S.MAIL

PENALTY FOR PRIVATE USE $300

RETURN TO

Print Sender's name, address, and ZIP Code in the space below.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
1900 SOUTH CONGRESS AVE., SUITE A
WEST PALM BEACH, FL 33406

DRAFT

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery.

3. Article Addressed to:

Mr. Gerhardt M Witt
Comp, Dresser & McKee Inc.
P.O. Box 9626
Ft. Lauderdale, FL 33310

4. Article Number

P 788 961 564

Type of Service:

☐ Registered ☐ Insured
☑ Certified ☐ COD
☐ Express Mail

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee

X Ann Mulgan

6. Signature — Agent

X

7. Date of Delivery

FEB 3 1988

8. Addressee's Address *(ONLY if requested and fee paid)*

PS Form 3811, F[illegible]986 DOMESTIC RETURN RECEIPT

DRAFT

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee
To: _____ Location: _____
To: _____ Location: _____
To: _____ Location: _____
From: _____ Date: _____

Interoffice Memorandum

Coral Springs Transfer Station Broward County

only one file

TO: Rick Wilken

THRU: Alex Padva/Bill Landis/Joe Lurix WJL.

FROM: Carol I. Meeds CIM

SUBJ: Site Visit Parkland / Coral Ridge Properties

DATE: March 30, 1989

I met Ronald W. Bailey, Parklands Public Safety Director and visited the Coral Ridge property yesterday. The site was in an undeveloped section west of Parkland. Although some farms were in the area, housing construction is anticipated for the future by Coral Ridge Properties, Inc. which owns most of the adjacent acreage. The land was flat and sparsely vegetated except for Brazilian Pepper and other roadside weeds along the drainage ditches.

Access to the perimeter road was monitored by an employee of Coral Ridge properties stationed in a parked car at the Southeast corner of the property. The dirt road from the western portion of the perimeter road which actually entered the site was closed by a locked gate. Mr. Chris Richard, Utility Coordinator of Coral Ridge Properties asked us for identification at this gate.

A filled area approximately 1750 feet east to west and 663 feet north to south was clearly seen from the perimeter road. The maximum height is 43 feet. The fill consisted of land clearing debris, trees, palm fronds, stumps, and dark gray dirt, which I am informed is dried muck.

No filling or dumping activities were in progress. The filled area along the west and north appeared well compacted, and maintained. No extraneous or unpermitted materials were observed. A video film of the property was recorded at the time of this visit.

No violations of Florida Solid Waste rules were observed.

CM:rjh/34

DRAFT

LAND DISPOSAL SITE DATA FORM
(Fill in and check blocks as appropriate.)

DELETE
ADD
CHANGE
INACTIVE

CONTROL NO. _____

1. COUNTY: BROWARD
2. SITE: CORAL SPRINGS LANDFILL
3. DATE: MARCH 18, 1974
4. STREET ADDRESS: N.W. 127th AVENUE, SOUTH OF WILES ROAD
5. LOCATION UTM: 0570.9 - 2906.8 TOWNSHIP 48S RANGE 41E SECTION 18
6. RESPONSIBLE OPERATING AUTHORITY: CITY OF CORAL SPRINGS
7. OWNERSHIP: FLA. NATIONAL Properties
8. ADDRESS: 9500 W. SAMPLE Rd.
9. PHONE NO.: 752-3410
10. POPULATION SERVED: 16000
11. NO. OF ACRES: 6
12. METHOD OF OPERATION: (a) TRENCH ☐ (b) AREA ☒ (c) WETLAND ☐ (d) HIGH-RISE ☐ (e) DUMP ☒ (f) OTHER ☐
13. TOPOGRAPHY: (a) QUARRY ☐ (b) BORROW PIT ☐ (c) STRIPMINE ☐ (d) HILLSIDE ☐ (e) GULLY ☐ (f) LEVEL AREA ☒ (g) MARSH ☒
14. SCALES: YES ☐ NO ☒
15. SURROUNDING LAND-USE: (a) RESIDENTIAL ☐ (b) COMMERCIAL ☒ (c) AGRICULTURAL ☐ (d) INDUSTRIAL ☒ (e) VACANT ☐
16. ZONING: (a) RESIDENTIAL ☐ (b) COMMERCIAL ☐ (c) AGRICULTURAL ☐ (d) INDUSTRIAL ☒ (e) VACANT ☐
17. YEAR BEGUN: 1969
18. PLANNED FINAL USE: (a) PARK ☐ (b) PARKING LOT ☐ (c) BUILDING CONSTRUCTION ☐ (d) AIRPORT ☐ (e) NONE ☒ (f) OTHER ☐ UNKNOWN
19. TYPES OF WASTE RECEIVED: (a) RESIDENTIAL ☒ (b) COMMERCIAL ☒ (c) INDUSTRIAL ☒ (d) AGRICULTURAL ☐ (e) SEPTIC TANK PUMPINGS ☐ (f) SEWAGE SLUDGE ☐ (g) INCINERATOR RESIDUE ☐ (h) DEAD ANIMALS ☐ (i) HAZARDOUS, CLINICAL, HOSPITAL ☐ (j) WATER TREATMENT, SLUDGE ☒
20. BURNING: YES ☐ NO ☒
21. DAYS OPEN FOR DISPOSAL: (S) M T W T F (S)
22. FREQUENCY OF COVER: some cover DAILY — NONE ☐ S M T W T F S
23. DEPTH OF WATER TABLE: 1.5 Ft.
24. SOIL PERMEABILITY: No. Perc.
25. NO. OF WELLS WITHIN ONE MILE: SHALLOW ____ DEEP ____
26. FLOODING: (a) NONE ☐ (b) RARE ☒ (c) OCCASIONAL ☐ (d) FREQUENT ☐
27. NO. OF ROADWAYS ADJACENT TO SITE: ONE
28. SLOPE OF SITE: LEVEL WITHIN 0.5 FEET
29. NO. OF RESIDENCES OR BUSINESSES WITHIN 1000 FEET: None
30. SOIL SERIES: SAND
31. SOIL TEXTURE: (a) SAND ☒ (b) SANDY-LOAM ☐ (c) LOAMY-SAND ☐ (d) SANDY CLAY ☐ (e) SANDY CLAY LOAM ☐ (f) CLAY ☐
32. FENCED: YES ☐ NO ☒
33. MONITORING WELLS: NO ☒ YES ☐
34. POTENTIAL WATER POLLUTION: (a) IMMEDIATE ☐ (b) HIGH ☐ (c) LOW ☒
35. DUMPING IN WATER: YES ☐ NO ☒
36. PERIMETER DITCH: YES ☐ NO ☒
37. LINER: YES ☐ NO ☒
38. LINER TYPE: (a) PLASTIC ☐ (b) ASPHALT ☐ (c) BENTONITE ☐ (d) CLAY ☐ (e) OTHER ☐ (f) NONE ☒
39. WELL POINT SYSTEM: YES ☐ NO ☒
40. OXIDATION POND: YES ☐ NO ☒
41. POND AREA: N/A
42. DEPTH OF SOILS TO BEDROCK: 11 Ft.
43. EVIDENCE OF LEACHING: YES ☐ NO ☒
44. FINAL LEACHATE TREATMENT NEEDED: YES ☐ NO ☒
45. FINAL TREATMENT: (a) CHLORINATION ☐ (b) AERATION ☐ (c) OZONATION ☐ (d) ADVANCED ☐ (e) OTHER ☐ (f) NONE ☒
46. RODENT PROBLEM: NO ☒ YES ☐
47. DISCHARGE: (a) CANAL ☐ (b) DITCH ☐ (c) STREAM ☐ (d) LAKE ☐ (e) OTHER ☒ WATER TABLE (f) MARSH ☐
48. RODENT CONTROL: NO ☒ YES ☐
49. CELL DEPTH OF REFUSE: 4 Ft.
50. INSECT PROBLEM: YES ☐ NO ☒
51. INSECT CONTROL: YES ☒ NO ☐
52. BLOWING PAPER CONTROL: YES ☒ NO ☐
53. FULL TIME ATTENDANT: YES ☒ NO ☐
54. ALL WEATHER ACCESS ROAD: YES ☒ NO ☐
55. GAS CONTROL: YES ☐ NO ☒
56. SPREADING OF REFUSE IN 2 FT. LAYERS: YES ☐ NO ☒
57. ONE (1) FT. INTERMEDIATE COVER APPLIED WITHIN ONE (1) WEEK CELL COMPLETION: YES ☐ NO ☒
58. TWO (2) FT. FINAL COVER APPLIED WITHIN ONE (1) YEAR CELL COMPLETION: YES ☒ NO ☐
59. EQUIPMENT AVAILABLE DAILY: (a) CRAWLER TRACTOR ☒ (b) RUBBER TIRED TRACTOR ☐ (c) HYDRAULIC BACK HOE ☐ (d) LANDFILL COMPACTOR ☐ (e) PAN SCRAPER ☐ (f) DRAGLINE ☐ (g) BRUSH HOG ☐ (h) TRASH PUMPS ☐
60. PROPOSED COST OF OPERATION: $/CU. YD. ____ $/TON ____
61. NAME OF PERSON COMPLETING FORM: Mike Fawley
62. REVIEW DATE _____ 63. PERMIT NO. _____ 64. ISSUE DATE _____ 65. EXPIRATION DATE _____

12-72

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

Interoffice Memorandum

News Release Requested: YES ☐ NO ☒ 7883

FOR ROUTING TO OTHER THAN THE ADDRESSEE
To: _____ Loctn: _____
To: _____ Loctn: _____
To: _____ Loctn: _____
From: _____ Date: _____

TO: Wayne Stevens
Office of Legislative and Public Affairs

THROUGH: Larry Morgan
Office of General Counsel

FROM: Scott Benyon
Southeast Florida District Manager

SUBJECT: News Release: City of Coral Springs and Florida National Properties, Inc.
Case Name

DATE: DEC 11 1997

Attached is a ☑ Consent Order SW

☐ Notice of Violation

for the preparation of a news release for the referenced case. This case has been identified as a major enforcement action for the following reasons:

☐ Case requires undertaking significant environmental corrective measures to protect human health or the environment or to abate imminent hazards.

☐ Case involves the imposition of significant fines or settlements.
Amount $4,680.00

☐ Case requires the responsible party to undertake activities having major impact on the community.

If you require any additional factual information, please contact Mr. Paul Wierzbicki of this office, Suncom 221-5005

enclosure

REW:dd/152

cc: Randy Armstrong (w/o enclosure)

Unpermitted solid waste transfer station; PCAP required.

DRAFT

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
ENFORCEMENT TELEPHONE LOG

CASE NAME: @ Coral Springs DATE: 12/01/87

CONTACT: Joanna Norton city attorneys office 3441013

****

DISCUSSION: Was a mistake made in the Consent Order #3 the address used in the property description was incorrect Informed her to line out the errors and write in the correct or address above the error, then initial the change (~~Northeast~~ Northwest 39th Street) She will do so and forward the Consent Orders to F.N.P. for signing.

This was O.K'ed by J.V.A.

PREPARED BY: Phil

DRAFT

CDM
environmental engineers, scientists,
planners, & management consultants

CAMP DRESSER & McKEE INC.
Post Office Box 9626
2001 Northwest 62nd Street
Fort Lauderdale, Florida 33310
305 776-1731

November 24, 1987

FEDERAL EXPRESS

Ms. Janet A. Johnson
Enforcement Section Head
Florida Department of Environmental Regulation
1900 South Congress Avenue
West Palm Beach, Florida 33406

Re: City of Coral Springs, Solid Waste Transfer Station,
Preliminary Contamination Assessment Plan (PCAP) Implementation,
Drilling of Monitoring Wells, OGC Case No. 87-0289

Dear Ms. Johnson:

Please be advised that the 2-inch monitor wells proposed in the Florida Department of Environmental Regulation approved PCAP for the solid waste transfer station located at 39th Street and the Sawgrass Expressway, Coral Springs, Florida, will be drilled and samples collected on or after December 9, 1987. The wells will be located onsite (3 wells) and on the right of way of the Sawgrass Expressway (1 well).

We will call your office when the exact date or time is set by the drilling contractor and for sampling.

Please advise me if you have any questions.

Sincerely,

CAMP DRESSER & McKEE INC.

Gerhardt M. Witt

Gerhardt M. Witt, P.G.

GMW/aml

File No.. 6079 25 SS CONST

cc: C. Bevier
D. Swets
T. Lawrence
D. Munksgaard
S. deAlbuquerque

RECEIVED
NOV 30 1987
Dept. of Environmental Reg.
West Palm Beach

DRAFT

CDM
environmental engineers, scientists, planners, & management consultants

CAMP DRESSER & McKEE INC.
Post Office Box 9626
2001 Northwest 62nd Street
Fort Lauderdale, Florida 33310
305 776-1731

JJ - PW
PW 12/7/87

November 24, 1987

Ms. Cindi Bevier
South Florida Water Management District
Post Office Box V
West Palm Beach, Florida 33402

Re: City of Coral Springs, Solid Waste Transfer Station,
Preliminary Contamination Assessment (PCAP) Implementation,
Drilling of Monitoring Wells, OGC Case No. 87-0289

Dear Ms. Bevier:

Please be advised that the 2-inch monitor wells proposed in the Florida Department of Environmental Regulation approved PCAP for the solid waste transfer station located at 39th Street and the Sawgrass Expressway, Coral Springs, Florida, will be drilled and samples collected on or after December 9, 1987. The wells will be located onsite (3 wells) and on the right of way of the Sawgrass Expressway (1 well).

We will call your office when the exact date or time is set by the drilling contractor and for sampling.

Please advise me if you have any questions.

Sincerely,

CAMP DRESSER & McKEE INC.

Gerhardt M. Witt, P.G.

GMW/aml

Attachment

File No. 6079 25 SS CONST

cc: J. Johnson
D. Swets
T. Lawrence
D. Munksgaard
T. Walker
S. deAlbuquerque

RECEIVED
DEC 2 1987
Dept. of Environmental Reg.
West Palm Beach

DRAFT

P 593 078 974

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

Sent to William N. Brady	
Street and No. 9551 W. Sample Rd.	
P.O., State and ZIP Code Coral Springs, FL 33075	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date DEC 11 1987	

JSB: pwd/145 enf.
City of Coral Springs
+ FL NAT. PROP. 87-0269

PS Form 3800, June 1985

U.S.G.P.O. 153-506

DRAFT

UNITED STATES P[illegible]AL SERVICE

OFFICIAL BU[illegible]ESS

SENDER INSTRUCTIONS

Print your name, address, and ZIP Code in the space below.

- Complete items 1, 2, 3, and 4 on the reverse.
- Attach to front of article if space permits, otherwise affix to back of article.
- Endorse article "Return Receipt Requested" adjacent to number.

RECEIVED

DEC 15 1987

Dept. of Environmental Reg.
West Palm Beach

U.S.MAIL

PENALTY FOR PRIVATE USE, $300

RETURN TO

Print Sender's name, address, and ZIP Code in the space below.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
1900 SOUTH CONGRESS AVE., SUITE A
WEST PALM BEACH, FL 33406

DRAFT

SENDER: Complete items 1 and 2 when additional services are d[illegible] complete items 3 and 4.

Put your address in [illegible] RETURN TO" Space on the reverse side. Failure [illegible] this will prevent this card from being retu[illegible]d to you. The return receipt fee will provide yo[illegible]e name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. *(Extra charge)*
2. ☐ Restricted Delivery *(Extra charge)*

3. Article Addressed to:

Mr. William N. Brady
City Manager
City of Coral Springs
9551 W. Sample Rd.
Coral Springs, FL 33075

4. Article Number
P-593 078 974

Type of Service:
- ☐ Registered
- ☐ Insured
- ☑ Certified
- ☐ COD
- ☐ Express Mail

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee
X

6. Signature – Agent
X Pat Perone

7. Date of Delivery
2-14-87

8. Addressee's Address *(ONLY if requested and fee paid)*

DRAFT

PS Form **3811**, Mar. 1987 ★ U.S.G.P.O. 1987-178-268 **DOMESTIC RETURN RECEIPT**

DOCUMENT TITLE Brady/Buntemeyer Cover Letters

INITIALS/DATE

12/10

12/10

12/10/87

12-10

INITIALS/DATE

mailed

DEC 11 1987

D.D.

DRAFT

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

FILE

SOUTHEAST FLORIDA DISTRICT
1900 SOUTH CONGRESS AVENUE, SUITE A
WEST PALM BEACH, FLORIDA 33406
(305) 964-9668

BOB MARTINEZ
GOVERNOR
DALE TWACHTMANN
SECRETARY
J. SCOTT BENYON
DISTRICT MANAGER

DEC 11 1987

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. William N. Brady
City Manager
City of Coral Springs
9551 West Sample Road
Coral Springs, Florida 33075

Dear Mr. Brady:

RE: City of Coral Springs and Florida National Properties, Inc.;
Consent Order OGC Case No. 87-0269

Enclosed for your implementation is the fully executed and filed Consent Order in the above-styled case. Please familiarize yourself with the compliance dates and terms of the Consent Order so that the complete and timely performance of those obligations is accomplished.

Thank you for your cooperation in this matter.

Sincerely,

J. Scott Benyon

J. Scott Benyon
District Manager

JSB:pwd/145

Enclosure

cc: Office of General Counsel, DER, Tallahassee
City of Coral Springs
Florida National Properties, Inc.
Mr. E. Austin White
Broward County Environmental Quality Control Board
Solid Waste Section, DER, West Palm Beach
West Palm Beach DER Files

DRAFT

DD

P-593 078 978

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

Sent to W. Buntemeyer	
Street and No. 3300 University Dr.	
P.O., State and ZIP Code Coral Springs, FL 33065	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date JSB:pwd/145 City of Coral Springs. of FL NAT PROP. 87-0269 DEC 11 1987	

PS Form 3800, June 1985

U.S.G.P.O. 153-506

DRAFT

UNITED STATES POSTAL SERVICE

OFFICIAL BUSINESS

SENDER INSTRUCTIONS

Print your name, address, and ZIP Code in the space below.

- Complete items 1, 2, 3, and 4 on the reverse.
- Attach to front of article if space permits, otherwise affix to back of article.
- Endorse article "Return Receipt Requested" adjacent to number.

U.S.MAIL

PENALTY FOR PRIVATE USE, $300

RETURN TO

Print Sender's name, address, and ZIP Code in the space below.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
1900 SOUTH CONGRESS AVE., SUITE A
WEST PALM BEACH, FL 33406

RECEIVED
'87 DEC 17 PM 3 5

DEPARTMENT OF
ENVIRONMENTAL REG
WEST PALM BEACH

DRAFT

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. *↑(Extra charge)↑*
2. ☐ Restricted Delivery *↑(Extra charge)↑*

3. Article Addressed to:

W. Buntemeyer Pres.
Florida National Properties
3300 University Dr.
Coral Springs FL 33065

4. Article Number
P-593 078 978.

Type of Service:
- ☐ Registered
- ☐ Insured
- ☑ Certified
- ☐ COD
- ☐ Express Mail

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X CORAL RIDGE PROPERTIES, INC.

6. Signature — Agent
X

7. Date of Delivery
10-4-87

8. Addressee's Address *(ONLY if requested and fee paid)*

PS Form **3811**, Mar. 1987 ★ U.S.G.P.O. 1987-178-268 DOMESTIC RETURN RECEIPT

DRAFT

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

FILE

SOUTHEAST FLORIDA DISTRICT
1900 SOUTH CONGRESS AVENUE, SUITE A
WEST PALM BEACH, FLORIDA 33406
(305) 964-9668

BOB MARTINEZ
GOVERNOR
DALE TWACHTMANN
SECRETARY
J. SCOTT BENYON
DISTRICT MANAGER

DEC 11 1987

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. W. Buntemeyer, President
Florida National Properties, Inc.
3300 University Drive
Coral Springs, Florida 33065

Dear Mr. Buntemeyer:

RE: City of Coral Springs and Florida National Properties, Inc.;
Consent Order OGC Case No. 87-0269

Enclosed for your implementation is the fully executed and filed Consent Order in the above-styled case. Please familiarize yourself with the compliance dates and terms of the Consent Order so that the complete and timely performance of those obligations is accomplished.

Thank you for your cooperation in this matter.

Sincerely,

J. Scott Benyon

J. Scott Benyon
District Manager

JSB:pwd/145

Enclosure

cc: Office of General Counsel, DER, Tallahassee
City of Coral Springs
Florida National Properties, Inc.
Mr. E. Austin White
Broward County Environmental Quality Control Board
Solid Waste Section, DER, West Palm Beach
West Palm Beach DER Files

DRAFT

P-593 079 289

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

Sent to: William N. Brady

Street and No.: 9551 W. Sample Rd.

P.O., State and ZIP Code: Coral Springs, FL 33075

Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date NOV 18 1987	

JSB:pwd/145
City of Coral Springs #87-0269
& FL National Properties, Inc.

PS Form 3800, June 1985

U.S.G.P.O. 153-506

DRAFT

UNITED STATES POSTAL SERVICE

OFFICIAL BUSINESS

SENDER INSTRUCTIONS

Print your name, address, and ZIP Code in the space below.

- Complete items 1, 2, 3, and 4 on the reverse.
- Attach to front of article if space permits, otherwise affix to back of article.
- Endorse article "Return Receipt Requested" adjacent to number.

RECEIVED

NOV 23 1987

Dept. of Environmental Reg.
West Palm Beach

U.S.MAIL

PENALTY FOR PRIVATE USE, $300

RETURN TO

Print Sender's name, address, and ZIP Code in the space below.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
1900 SOUTH CONGRESS AVE., SUITE A
WEST PALM BEACH, FL 33406

DRAFT

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. *↑(Extra charge)↑*
2. ☐ Restricted Delivery *↑(Extra charge)↑*

3. Article Addressed to:

Mr. William Brady
City Manager
City of Coral Springs
9551 W. Sample Rd.
Coral Springs, FL 33075

4. Article Number
P-593 079 289

Type of Service:
- ☐ Registered
- ☐ Insured
- ☑ Certified
- ☐ COD
- ☐ Express Mail

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X

6. Signature — Agent
X Pat Pirone

7. Date of Delivery
11/20/87

8. Addressee's Address *(ONLY if requested and fee paid)*

PS Form **3811**, Mar. 1987 ★ U.S.G.P.O. 1987-178-268 **DOMESTIC RETURN RECEIPT**

DRAFT

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

FILE

SOUTHEAST FLORIDA DISTRICT
1900 SOUTH CONGRESS AVENUE
WEST PALM BEACH, FLORIDA 33406

BOB MARTINEZ
GOVERNOR
DALE TWACHTMANN
SECRETARY
J. SCOTT BENYON
DISTRICT MANAGER

NOV 18 1987

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. William N. Brady
City Manager
City of Coral Springs
9551 West Sample Road
Coral Springs, Florida 33075

Dear Mr. Brady:

RE: City of Coral Springs and Florida National Properties, Inc.;
Consent Order OGC Case No. 87-0269

Enclosed for your review and signature are three copies of the Consent Order redrafted by the Department in the above-styled case. The Consent Order represents the resolution acceptable to the Department in this matter.

Please review, sign and return all copies within twenty (20) days from the date of receipt to this office for Department signature and distribution. Should you have any questions concerning the Consent Order please contact Mr. Paul Wierzbicki at 305/964-9668.

Sincerely,

for J. Scott Benyon
District Manager

JSB:pwd/145

Enclosure

cc: Office of General Counsel, DER, Tallahassee
City of Coral Springs
Florida National Properties, Inc.
Mr. E. Austin White
Broward County Environmental Quality Control Board
Solid Waste Section, DER, West Palm Beach
West Palm Beach DER Files

DRAFT

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION, Complainant, vs. CITY OF CORAL SPRINGS and FLORIDA NATIONAL PROPERTIES, INC. Respondents.	:	IN THE OFFICE OF THE SOUTHEAST FLORIDA DISTRICT OGC Case No. 87-0269

CONSENT ORDER

Pursuant to the provisions of Sections 403.121(2) and 120.57(3), Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Rule 17-103.110, this Consent Order is entered into between the State of Florida Department of Environmental Regulation ("Department"), Florida National Properties, Inc. ("Respondent Florida National") and the City of Coral Springs("Respondent Coral Springs") to reach settlement of certain matters at issue among the Department and Respondents.

The Department finds, and Respondents, while not admitting culpability, agree to the following:

1. The Department is the administrative agency of the State of Florida having the power and duty to control and prohibit pollution of air and water in accordance with Chapter 403, F.S., and rules promulgated thereunder. The Department has jurisdiction over the matters addressed in this Consent Order.

2. Respondent Coral Springs is a municipality which operates a solid waste transfer station at 39th Street and the Sawgrass Expressway, Coral Springs, Broward County, Florida.

3. Florida National Properties, Inc., a Florida corporation, owns the property in the Northeast corner of the intersection of the Sawgrass Expressway and Northeast 39th Street, located in Township 48 South, Range 41 East, Section 18, Broward County, Florida, upon which Respondent Coral Springs operates the solid waste transfer station referenced above.

DRAFT

4. On October 8, 1986, the Department inspected the solid waste transfer station operated by Respondent Coral Springs.

5. As a result of that inspection, the Department issued a Notice of Violation and Orders for Corrective Action (NOV) to Respondents on April 13, 1987, alleging violations of Chapter 403, F.S., and rules promulgated thereunder. The terms of the NOV are incorporated herein by reference.

6. Respondents requested to meet in informal conference, pursuant to F.A.C. Rule 17-103.090. On May 6, 1987, the Department met with Respondent Florida National in informal conference. On May 20, the Department met with both Respondents in informal conference. During that meeting, and in subsequent correspondence, the issues raised in the Department's NOV have been resolved.

THEREFORE, having reached a resolution of the matter pursuant to F.A.C. Rule 17-103.110(3), Respondents and the Department mutually agree and it is,

ORDERED:

7. Respondent Coral Springs shall immediately cease to cause or allow refuse, trash, or other solid wastes to be deposited on the land or waters located at its solid waste transfer station, described above. Respondent Coral Springs shall take appropriate and reasonable measures to ensure that wastes will not be deposited in this manner. Henceforth, Respondent Coral Springs shall not operate a solid waste management facility without an appropriate and valid Department permit.

8. Respondent Coral Springs shall implement the Preliminary Contamination Assessment Actions attached hereto as Exhibit I in the manner and within the time frames specified. The Preliminary Contamination Assessment Plan prepared by Camp Dresser and McKee on May 29, 1987 has been approved by the Department and may be implemented.

9. In the event the Preliminary Assessment described in Exhibit I reveals the presence of contaminants in the soil, sediment, surface water and/or groundwater in violation of water quality standards or minimum criteria set forth in F.A.C. Chapter

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17-3, or reveals the presence of contaminants which may reasonably be expected to cause pollution of the surface and/or groundwater of the State in excess of such standards or criteria, Respondent Coral Springs shall implement the corrective actions in the manner and within the time frames set forth in the document entitled "Corrective Actions for Groundwater Contamination Cases," attached hereto as Exhibit II. Such time frames shall begin upon Department notification that the presence of contaminants has been confirmed and that such corrective actions are necessary.

10. Respondent Florida National shall allow Respondent Coral Springs reasonable access to the property in question for the purpose of carrying out the corrective actions required pursuant to paragraphs 8 and 9, above.

11. Respondent Coral Springs shall pay to the Department $5,180.00 in settlement for the matters raised in this Consent Order. This amount includes a monetary settlement of $4,680.00 for alleged violations of Department rules and $500.00 as payment for costs and expenses incurred by the Department while investigating this matter. The amount shall be made payable to the "State of Florida Department of Environmental Regulation" and shall be submitted to the Department's Southeast Florida District, 1900 South Congress Avenue, Suite A, West Palm Beach, Florida 33406, within forty-five (45) days of the entry of this Consent Order. For and in consideration of the complete and timely performance by Respondents of the obligations agreed to in this Consent Order, the Department waives its right to seek judicial imposition of civil penalties concerning the issues involved in this Consent Order.

12. Respondent Coral Springs shall provide within a reasonable time at its expense a permanent safe drinking water supply meeting all drinking water standards set forth in Florida Administrative Code Chapter 17-22 to replace any existing potable water well that is shown by chemical and hydrogeologic analysis to be contaminated by Respondent Coral Springs' operations.

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13. Persons not parties to this Consent Order but whose substantial interests are affected by this Consent Order have a right, pursuant to Section 120.57, F.S., to petition for an administrative determination (hearing) on it. The petition must conform to the requirements of F.A.C. Chapters 17-103 and 28-5, and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within fourteen (14) days of receipt of this notice. Failure to file a petition within the fourteen (14) days constitutes a waiver of any right such person has to an administrative determination (hearing) pursuant to Section 120.57, F.S.

14. Respondents waive their rights to an administrative hearing on the terms of this Consent Order under Section 120.57, F.S., and their right to appeal this Consent Order pursuant to Section 120.68, Florida Statutes.

15. Nothing herein shall be construed to limit the authority of the Department to undertake any action against Respondents in response to or to recover the costs of responding to conditions at or from the site which may present an imminent hazard to the public health, welfare or the environment if:

(1) Either previously unknown or undetected conditions at or from the site or other previously unknown facts are discovered after execution by the Parties of the Consent Order; or

(2) The conditions are caused by the implementation of the Remedial Action Plan or this Consent Order.

16. Entry of this Consent Order does not relieve Respondents of the need to comply with applicable federal, state, or local laws, regulations, or ordinances.

17. The terms and conditions set forth in this Consent Order may be enforced in a court of competent jurisdiction pursuant to Sections 120.69 and 403.121, F.S. Failure to comply with the terms of this Consent Order shall constitute a violation of Section 403.161(1)(b), F.S.

18. Respondents are fully aware that a violation of the terms of this Consent Order may subject Respondents to judicial

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imposition of damages, civil penalties of up to $10,000 per offense, and criminal penalties.

19. Respondents shall allow all authorized representatives of the Department access to the property at reasonable times for purposes of determining compliance with this Consent Order and the rules and regulations of the Department.

20. The Department hereby expressly reserves the right to initiate appropriate legal action to prevent or prohibit the future violation of applicable statutes, or the rules promulgated thereunder not covered by the terms of this Consent Order.

21. No modification of the terms of this Consent Order shall be effective until reduced to writing and executed by both the Respondents and the Department except as otherwise specified in Exhibits I and II.

22. All reports, plans, and data required by this Consent Order to be submitted to the Department should be sent to the Environmental Manager, Enforcement Section, Florida Department of Environmental Regulation, 1900 South Congress Avenue, Suite A, West Palm Beach, Florida 33406 and to the Bureau of Operations, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.

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23. This Consent Order is the final agency action of the Department pursuant to Section 120.69, F.S., and F.A.C. Rule 17-103.110(3), and it is final and effective on the date filed with the Clerk of the Department unless a Petition for Administrative Hearing is filed in accordance with Chapter 120, F.S. Upon the timely filing of a petition, this Consent Order will not be effective until further order of the Department.

FOR RESPONDENT CORAL SPRINGS:

_____
Date

_____
MR. WILLIAM N. BRADY, City Manager
City of Coral Springs
9551 West Sample Road
Coral Springs, Florida 33075

FOR RESPONDENT FLORIDA NATIONAL:

_____
Date

_____
MR. W. BUNTEMEYER, President
Florida National Properties, Inc.
3300 University Drive
Coral Springs, Florida 33065

DONE AND ORDERED this _____ day of _____, 1987, in West Palm Beach, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

_____
J. SCOTT BENYON, District Manager
Southeast Florida District
1900 S. Congress Avenue, Suite A
West Palm Beach, Florida 33406
Telephone: 305/964-9668

JSB:pwd/34

Copies furnished to:
Office of General Counsel, DER, Tallahassee
City of Coral Springs
Florida National Properties, Inc.
Broward County Environmental Quality Control Board
Solid Waste Section, DER, West Palm Beach
Mr. E. Austin White
West Palm Beach DER Files

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PRELIMINARY CONTAMINATION ASSESSMENT ACTIONS

1. Within 30 days of the effective date of the Order incorporating these preliminary contamination assessment actions, Respondent shall submit a Preliminary Contamination Assessment Plan ("PCAP") to the Department. The PCAP shall describe the tasks that Respondent proposes to perform in order to determine whether the soil, sediment, surface water or ground water are contaminated at Respondent's facility; and, if so, whether such contamination has resulted in a violation of the water quality standards and minimum criteria established in Florida Administrative Code Chapter 17-3. The PCAP shall include a time schedule for each task so that all tasks can be completed and a Preliminary Contamination Assessment Report ("PCAR") can be submitted to the Department within 90 days of the effective date of the Order.

2. The PCAP shall contain proposals for sampling and analysis for all of the following contaminants:

a. priority pollutant metals;

b. priority pollutant organic chemicals using EPA methods 624 and 625;

c. all organic chemicals with peaks greater than five micrograms per liter (ug/l) using EPA methods 624 and 625;

d. pesticides.

The number of contaminants to be analyzed may be reduced if Respondent can demonstrate to the Department's satisfaction that the contaminants proposed to be deleted from the list cannot be attributed to any activities that have taken place at Respondent's facility. The Department shall submit written notification to the Respondent if the number can be reduced.

3. The Department shall review the PCAP and provide Respondent with a written response to the proposal. Any action taken by Respondent with regard to the implementation of the PCAP prior to the Respondent receiving written notification from the Department that the PCAP has been approved shall be at Respondent's risk.

4. Prior to the commencement of the PCAP or other sampling and analysis undertaken by or on behalf of Respondent, Respondent

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shall submit to the Department for its approval a Quality Assurance Project Plan (QAPP). The QAPP shall be prepared in accordance with the requirements set forth in the document titled "DER Guidelines for Preparing Quality Assurance Plans, DER-QA-001/85, January 30, 1986." A copy of the document is available upon request from the Department. A QAPP is required for all persons collecting or analyzing samples. The Department reserves the right to reject all results submitted by Respondent prior to QAPP approval.

5. Upon completion of the PCAP, Respondent shall submit a written Preliminary Contamination Assessment Report ("PCAR") to the Department. The PCAR shall:

a. summarize and analyze all "PCAP" tasks;

b. compare analytical data collected with surface and ground water quality standards and criteria set forth in Florida Administrative Code Chapter 17-3;

c. identify, to the extent possible, the source(s), extent, and concentrations of contaminants, and the existence of any imminent hazards.

6. The Department shall review the PCAR and determine whether it is adequate to meet the objectives of the PCAP. In the event that additional information is necessary to evaluate the PCAR, the Department shall make a written request and Respondent shall provide all requested information within 20 days of receipt of said request.

7. Respondent shall provide written notification to the Department at least ten days prior to the installation or sampling of any monitoring wells, and shall allow Department personnel the opportunity to observe installation and sampling and to take split samples. All necessary approvals must be obtained from the water management district before any wells are installed. Raw data shall be exchanged between Respondent and the Department as soon as the data is available.

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8. If the Department's review of the PCAR indicates that the soil, sediments, surface water or groundwater is contaminated, or if the Department rejects the PCAP or PCAR for not meeting the objectives of analyzing or reporting on the analysis of the contaminants that are the subject of the assessment, the Department reserves the right to do any or all of the following:

a. seek further administrative relief through the filing of a Notice of Violation or entry of a Consent Order which requires Respondent to conduct further assessment and clean-up at its facility;

b. file suit for injunctive relief, civil penalties, damages and expenses, or

c. perform the necessary corrective actions at Respondent's facility and recover the costs of such actions from Respondent.

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CORRECTIVE ACTIONS FOR GROUND WATER CONTAMINATION CASES

1. Within 60 days of receipt of notice from the Department that Corrective Actions for ground water contamination must be taken, Respondent shall submit to the Department a detailed written Contamination Assessment Plan ("CAP").

A. The objectives of the CAP shall be to:

(1) Establish the areal and vertical extent of soil, sediment, surface water and ground water contamination;

(2) Determine or confirm the contaminant source(s); mechanisms of contaminant transport; rate and direction of contaminant movement in the air, soils, surface water and ground water; and rate and direction of ground water flow;

(3) Provide a complete characterization of the contamination plume(s);

(4) Determine whether interim remedial measures are necessary to abate any imminent hazard.

B. The CAP shall contain tasks, the purposes of which are to arrive at the objectives described in subparagraph 1.A. above. The CAP shall include a reasonable time schedule for completing each task. The tasks may include but are not limited to the following:

(1) Use of piezometers to determine the horizontal and vertical directions of the ground water flow;

(2) Use of electromagnetic conductivity (EM) and other geophysical methods to trace extent of ground water contamination;

(3) Use of fracture trace analysis to discover linear zones in which discrete flow could take place;

(4) Use of sand point or monitoring wells to sample areas of contaminated ground water and to determine the vertical and horizontal extent of the ground water plume;

(5) Sampling of private wells;

(6) Sampling of surface water and sediments;

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(7) Sampling of air for airborne contaminants;

(8) Soil sampling surveys using grid systems; geophysical equipment such as EM, magnetometers, and metal detectors to detect drums, tanks, etc; vapor analyzers; and Extraction Procedure (EP) toxicity testing;

(9) Analysis of soils and drum residues for hazardous waste determination and waste characterization.

C. The CAP shall contain as a separate document a Quality Assurance Project Plan ("QAPP"), which shall apply to all sampling and analysis required by this Consent Order. The QAPP shall be prepared in accordance with the requirements set forth in the document titled "DER Guidelines for Preparing Quality Assurance Plans, DER-QA-001/85, January 30, 1986." A copy of the document is available upon request from the Department. A QAPP is required for all persons collecting or analyzing samples. The Department reserves the right to reject all results submitted by Respondent prior to QAPP approval.

2. The Department shall review the CAP and provide the Respondent with a written response to the proposal. Any action taken by Respondent with regard to the implementation of the PCAP prior to the Respondent receiving written notification from the Department that the PCAP has been approved shall be at Respondent's risk.

3. In the event that additional information is necessary for the Department to evaluate the CAP, the Department shall make a written request to Respondent for the information, and Respondent shall provide all requested information in writing to the Department within 20 days from receipt of said request unless the requested information requires additional field work in which case the Respondent shall submit to the Department a written schedule for completing the field work needed to provide the requested information.

4. In the event that the Department determines that the CAP submitted by Respondent does not adequately address the objectives of the CAP as set forth in subparagraph 1.A. above, the Department

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will notify the Respondent in writing of the CAP's deficiencies. Respondent shall then have 30 days from the Department's notification to resubmit a modified CAP addressing the deficiencies noted by the Department.

5. If the Department determines upon review of the resubmitted CAP that the CAP still does not adequately address the objectives of the CAP as set forth in subparagraph 1.A. above, the Department, at its option, may choose either to:

A. Draft specific modifications to the CAP and notify Respondent in writing that the Department's modification shsall be incorporated in the CAP; or

B. Notify Respondent that Respondent has failed to comply with paragraph four above, in which case the Department may do any or all of the following: take legal action to enforce compliance with the Consent Order, file suit to recover damages and civil penalties, or complete the corrective actions outlined herein and recover the costs of completion from Respondent.

6. Once a CAP has been approved by the Department, it shall become effective and made a part of this Consent Order and shall be implemented within ten days of the Department's notification to Respondent that the CAP has been approved. The CAP shall incorporate all required modifications to the CAP identified by the Department.

7. Within 45 days of completion of the tasks in the CAP, Respondent shall submit a written contamination assessment report ("CAR") to the Department. The CAR shall:

A. Summarize and analyze all CAP tasks;

B. Discuss the CAP objectives outlined in subparagraph 1.A.; and

C. Specify conclusions regarding CAP objectives outlined in subparagraph 1.A.

8. The Department shall review the CAR and determine whether it has adequately met the objectives specified in subparagraph 1.A. In the event that additional information is necessary to evaluate the CAR, the Department shall make a written

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request and Respondent shall provide all requested information within 20 days of receipt of said request unless the requested information requires additional field work in which case the Respondent shall submit in writing to the Department a reasonable schedule for completing the field work needed to provide the requested information.

9. If the Department determines from review of the CAR that there is a need for a Feasibility Study ("FS"), Respondent shall submit to the Department for its review a Feasibility Study Plan ("FSP"). The FSP shall be submitted within 30 days of receipt by Respondent of the Department's determination that a FS for a particular site is necessary. The purpose of the FS is to develop and evaluate all alternatives in order to identify the most cost effective and environmentally sound remedial action for the site. The FSP shall provide an outline of the elements to be included in the FS and shall explain how Respondent plans to address each of the elements. The FSP shall provide a detailed description of the technical approach Respondent shall use to address each task to be conducted during the FS. At a minimum, the FSP shall address the following task elements:

A. The objectives of the remedial action, as required by Department rules and state and federal statutes: e.g., to prevent ground water contamination; to remove, contain or render harmless the contamination source; to clean-up to the water quality criteria and minimum standards in Florida Administrative Code Chapter 17-3; etc.;

B. Risk assessment, which shall include consideration of the toxicity, transport mechanisms, persistence in the environment, and impacts on human health and the environment of the substances associated with the site;

C. Methods to quantify contaminant movement off-site, to identify impact zones, and to identify and quantify hazardous zones;

D. Development of criteria for evaluation of remedial alternatives for the site, to include at a minimum environmental

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protection, environmental effects, implementability, capital costs, operations and maintenance costs, present worth, safety requirements during implementation, reliability, operation and maintenance requirements, feasibility, time required to achieve clean-up, and legal consideration of the alternatives;

E. Identification and review of pertinent treatment, containment, removal and disposal technologies;

F. Screening of technologies to detect the most appropriate technologies and to eliminate those clearly not feasible or appropriate;

G. Pilot tests or bench tests to evaluate the alternatives, if necessary;

H. Review and selection of potential remedial alternatives using criteria established in tasks D through G above;

I. Selection of the best remedial alternative; and

J. A reasonable timetable for completion of the tasks.

10. The Department shall review the FSP and provide Respondent with a response to the proposal. Respondent shall not implement the FS tasks until Respondent receives written notification from the Department that the FSP has been approved.

11. In the event that additional information is necessary for the Department to evaluate the FSP, the Department shall make a written request, and Respondent shall provide all requested information in writing to the Department within 20 days from receipt of said request.

12. In the event that the Department determines that the FSP submitted by Respondent does not adequately address the objectives in pararaph nine, the Department will notify Respondent in writing of the FSP's deficiencies. Respondent shall then have 20 days from the Department's notification to submit a modified FSP addressing the deficiencies noted by the Department.

13. If the Deprtment determines upon review of the resubmitted FSP tht the FSP still is not adequate, the Department, at its option, may choose either to:

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A. Draft specific modifications to the FSP and notify Respondent in writing that the Department's modifications shall be incorporated in the FSP; or

B. Notify Respondent that Respondent has failed to comply with paragraph 12 above, in which case the Department may do any or all of the following: take legal action to enforce compliance with the Consent Order, file suit to recover damages and civil penalties, or complete the corrective actions outlined herein and recover the costs of completion from Respondent.

14. Once the FSP, with modifications, if any, has been approved by the Department, it shall be implemented by Respondent within ten days of the Department's notification to Respondent that the FSP has been approved.

15. Within 45 days of completing the FS, Respondent shall submit an FS Report to the Department. The FS Report shall:

A. Summarize and analyze all FS tasks results; and

B. Propose a conceptual remedial action plan based on the selection process carried out in the FS.

16. The Department shall review the FS Report and determine whether it has adequately met the remedial action objectives. In the event that additional information is necessary to evaluate the FS report, the Department shall make a written request and Respondent shall provide all requested information within 20 days from receipt of said request.

17. Within 45 days of receipt of written approval of the FS Report from the Department or within 30 days of the Department's determination pursuant to paragraph nine above that no FS is necessary, Respondent shall submit to the Department a detailed Remedial Action Plan ("RAP"). The purpose of the remedial action shall be to achieve the clean up of the contaminated areas to levels that meet water quality standards and criteria established by the Department, or such other levels as may be set forth in the FS Report, if done. The RAP shall include:

A. Design and construction details for the remedial alternative selected;

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B. Operational details of the remedial action;

C. A separate QAPP document;

D. Safety plan; and

E. Proposed methodology for evaluation of the site status after the remedial action is complete to verify accomplishment of the goals of the RAP.

18. The Department shall review the proposed RAP and provide Respondent with a written response to the proposal. Respondent shall not implement the RAP until Respondent receives written notification from the Department that the RAP has been approved.

19. In the event that additional information is necessary for the Department to evaluate the RAP, the Department shall make a written request to Respondent for the information, and Respondent shall provide all requested information in writing to the Department within 20 days from receipt of said request unless the requested information required additional field work in which case the Respondent shall submit in writing to the Department a reasonable schedule for completing the field work needed to provide the requested information.

20. In the event that the Department determines that the RAP submitted by the Respondent does not adequately address the objectives set forth in paragraphs 17 and 18, the Department will notify the Respondent in writing of the RAP's deficiencies. The Respondent shall then have 28 days from the Department's notification to resubmit a modified RAP addressing the deficiencies noted by the Department.

21. If the Department determines upon review of the resubmitted RAP that the RAP still does not adequately address the objectives of the RAP, the Department, at its option, may choose to either:

A. Draft specific modifications to the RAP and notify the Respondent in writing that the Department's modifications shall be incorporated in the RAP; or

B. Notify the Respondent that Respondent has failed to comply with the paragraph 21 above, in which case the Department

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may do any or all of the following: take legal action to enforce compliance with the Consent Order, file suit to recover damages and civil penalties, or complete the corrective actions outlines herein and recover the costs of ccompletion from Respondent.

22. Once a RAP has been approved by the Department, it shall become effective and made a part of this Consent Order and shall be implemented within ten days of the Department's notification to the Respondent that the RAP has been approved. The RAP shall incorporate all required modifications to the RAP identified by the Department.

23. On the first working day of each month, after beginning implementation of a CAP, FSP or RAP, Respondent shall submit written progress reports to the Department. These progress reports shall describe the status of each required CAP, FSP and RAP task. The reports shall be submitted until planned tasks have been completed to the satisfaction of the Department.

24. Respondent shall provide written notification to the Department at least ten days prior to installing monitoring or recovery wells, and shall allow Department personnel the opportunity to observe the location and installation of the wells. All necessary approvals must be obtained from the water management district before Respondent installs the wells.

25. Respondent shall provide written notification to the Department at least ten days prior to any sampling, and shall allow Department personnel the opportunity to observe sampling or to take split samples. Raw data shall be exchanged between the Respondent and the Department as soon as the data is available.

26. If any event occurs which causes delay or the reasonable likelihood of delay in the achievement of the requirements of these Corrective Actions, Respondent shall have the burden of proving that the delay was or will be caused by circumstances beyond the reasonable control of Respondent, and could not have been or can not be overcome by due diligence. Upon occurrence of the event Respondent shall promptly notify the Department orally and shall, within seven calendar days, notify the Department in

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writing of the anticipated length and cause of delay, the measures taken or to be taken to prevent or minimize the delay, and the time table by which Respondent intends to implement these measures. If the parties can agree that the delay or anticipated delay has been or will be caused by circumstances beyond the reasonable control of Respondent, the time for performance hereunder shall be extended for a period equal to the delay resulting from such circumstances. Such agreement shall be confirmed by letter from the Department accepting or if necessary modifying the extension request. Respondent shall adopt all reasonable measures necessary to avoid or minimize delay. Failure of Respondent to comply with the notice requirements of this paragraph shall constitute a waiver of Respondent's right to request an extension of time to complete the requirements of these Corrective Actions. Increased costs of performance of any of the activities set forth in these Corrective Actions or changed economic circumstances shall not be considered circumstances beyond the control of Respondent.

27. Respondent shall immediately notify the Department of any problems encountered by Respondent which require modification of any task in the approved CAP, FSP or RAP, and obtain Department approval prior to implementing any such modified tasks.

28. All sampling and analysis required under these Corrective Actions shall be accomplished pursuant to the following procedures:

A. All sampling shall be done in the manner consistent with DER approved procedures;

B. All laboratory data submitted shall contain a complete explanation of quality control procedures used to guarantee the reliability and accuracy of analytical data, and those laboratory procedures used shall be those approved by the Department. The test methods to be used in analyzing any parameters shall be the EPA approved test methods for the specific parameter to be analyzed unless otherwise notified by the Department;

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C. All field testing, sample collection and preservation, and laboratory testing, including quality control procedures, shall be in accordance with the QAPP approved by the Department.

29. Should the Department conclude that clean up of the contaminated area to levels meeting the standards and criteria set forth in Chapter 17-3, Florida Administrative Code, is not feasible; or should Respondent not completely implement the RAP as approved by the Department; the Department may seek restitution from Respondent for environmental damages resulting from pollution of the ground water as a result of Respondent's actions. Within 20 days of receipt of Department notification of its intent to seek said restitution, Respondent may pay the amount of the damages or may, if it so chooses, initiate negotiations with the Department regarding the monetary terms of restitution to the state. Respondent is aware that should a negotiated sum or other compensation for environmental damages not be agreed to by the Department and Respondent within 20 days of receipt of Department notification of its intent to seek restitution, the Department may institute appropriate action, either administrative, through a Notice of Violation, or judicial, in a court of competent jurisdiction through a civil complaint, to recover Department assessed environmental damages pursuant to Section 403.141, Florida Statutes.

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STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
ENFORCEMENT
COMPLIANCE TRACKING RECORD

CASE NAME Coral Spgs. Transfer STA.

MONETARY SETTLEMENTS

ASSESSED: $5180.00

COLLECTED: DATE	AMOUNT
	4,680.00
	500.00 Ca E

COMPLIANCE MONITORING (Includes due dates for monetary settlements)

DATE DUE	ACTIVITY	DATE COMPLETED
1/25/88	Penalty Settlement	7/19/88

DRAFT

November 9, 1988

COMPLIANCE TRACKING RECORD

CASE NAME: CORAL SPGS. TRANSFER STA. DEACT DATE:
COUNTY: BROWARD PROGRAM: SW INVESTIGATOR: KRAIMER
DATE INITIATED COMPLIANCE MONITORING: 12/11/87 OGC CASE #: 870269

****

MONETARY SETTLEMENTS ASSESSED		MONETARY SETTLEMENTS COLLECTED	
IN CONSENT ORDER:	$ 5,180.00	DATE	AMOUNT
			$ 4,680.00
			$ 500.00
		TOTAL MONEY COLLECTED:	$ 5,180.00

****

COMPLIANCE MONITORING DATE	ACTIVITY	COMPLETE DATE
1/25/88	PENALTY SETTLEMENT	7/19/88

DRAFT

November 22, 1988

ENFORCEMENT TRACKING RECORD

CORAL SPGS. TRANSFER STA. KRAIMER

COUNTY: BROWARD PROGRAM: SW ATTORNEY: CHISOLM OGC #: 870269

MILESTONE DATES**********

OPEN DATE: 1/20/87 WL DATE: 9/02/87 DRAFT NOV: 3/03/87 NOV DATE: 4/13/87

DRAFT CO: 7/20/87 CO DATE: 12/11/87 FINAL ORD: PETITION:

CASE REPT: COMPL: JUDIC ORD: DEACT DATE:

****

CASE INVOLVES THE OPERATION OF AN UNPERMITTED SOLID WASTE TRANSFER STATION BY THE CITY OF CORAL SPRINGS.

CASE CHRONOLOGY

DATE	ACTIVITY
1/20/87	CASE REFERRED TO ENFORCEMENT. OPERATION OF AN UNPERMITTED SOLID WASTE FACILITY CITED.
3/04/87	DRAFT NOV SENT TO OGC.
3/20/87	OGC COMMENTS ON NOV RECEIVED.
4/10/87	PENALTY OF $4680 CALCULATED.
4/13/87	NOTICE OF VIOLATION ISSUED.
4/23/87	INFORMAL CONFERENCES REQUESTED BY BOTH RESPONDENTS.
5/06/87	INFORMAL CONFERENCE WITH CORAL RIDGE PROPERTIES.
5/08/87	INFORAML CONFERENCE WITH CITY OF CORAL SPRINGS SET FOR 5-20-87.
5/20/87	INFORMAL CONF. WITH CITY OF CORAL SPRINGS.
5/28/87	PLANS FOR INTERIM WASTE TRANSFER SITE AND PLANS TO REACH COMPLIANCE.
7/09/87	APPROVAL GIVEN FOR INTERIM WASTE TRANSFER SITE PLANS AND CAP.
9/02/87	C.O. SENT FOR SIGNATURE.
9/18/87	CORAL RIDGE PROPERTIES PHONED; CHANGE MADE TO C.O.
9/21/87	LETTER FROM CORAL RIDGE FOLLOWING UP PHONE CALL.
9/24/87	LETTER FROM CITY OF CORAL SPRINGS CONCERNING CO.
9/28/87	REVISED CO TO TYPING.
11/30/87	DEPT. RECEIVED LETTER INFORMING OF PROPOSED PCAP WELLS TO BE DRILLED ON OR AFTER 12/09/87.
12/01/87	DEPT. RECEIVED PHONE CALL FROM CITY ATTORNEY NORTON PROPERTY DESCRIPTION IN ERROR. J.V.A. APPROVED CO CHANGE.
12/14/87	DEPT. RECEIVED REVIEWED AND SIGNED CONSENT ORDER.
12/24/87	MR. LAWRENCE OF NUTTING ENVIRONMENTAL CALLED TO NOTIFY DEPT. THAT MONITORING WELLS WILL BE DRILLED MONDAY DEC.28, 1987.
1/12/88	DEPT. RECEIVED LETTER FROM CDM CONCERNING PCAP IMPLEMENTATION BY METTING ENVIRONMENTAL STATING THAT PROPERTY ACCESS REQUESTED MUST BE APPROVED BY BC EXPRESSWAY AUTHORITY MEETING BEING HELD ON JANUARY 26,1988 AT 3 PM. N. ENVIRON. ASKING FOR 60/D. EXT.
1/15/88	DEPT. CALLED MR. WITT OF CDM NOTIFYING HIM THAT DEPT. GRANTS APPROVAL FOR EXTENTION OF 60 DAYS STARTING JANUARY 8 TO MARCH 8, 1988.
2/02/88	DEPT. SENT LETTER CONFIRMING EXTENTION OF 60 DAYS.
3/02/88	M.W'S INSTALLED, G.W. SAMPLING TO TAKE PLACE ON 3/03/88.
5/20/88	GW REVIEW REQUESTED FOR CAR SUBMITTAL.
5/31/88	RECEIVED PCAR REVIEW FROM BWC.
6/03/88	RECEIVED PCAR REVIEW FROM GW SECTION.
6/29/88	RESPONSE TO PCAR REVIEW TO TYPING.
7/05/88	LETTER CDM, REVIEW OF PCAR AND DELINQUENT PENALTY PAYMENT.
7/19/88	PENALTY SETTLEMENT CK. RECEIVED.
8/22/88	RECEIVED DRAFT PROPOSAL FOR CAP.
8/25/88	GW REVIEW REQUESTSED FOR CAP.
8/25/88	J. LURIX (PERMITTING) REVIEW REQUESTED FOR CAP.
9/16/88	DEPT. APPROVAL OF CAP W. ADDITION OF TCE TO PHASE I PARAMETERS SENT TO CDM.
10/28/88	SEE TELE LOG.
11/16/88	SPOKE TO P. BALSDON, SEE TELE LOG.

DRAFT

JJ-PW

Coral Ridge

CORAL RIDGE PROPERTIES, INC. / 3300 UNIVERSITY DRIVE / CORAL SPRINGS, FLORIDA 33065 / AREA CODE 305-752-1100

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

RECEIVED
DEC 9 1987
Dept. of Environmental Reg.
West Palm Beach

December 8, 1987

Mr. J. Scott Benyon
District Manager
Department of Environmental Regulation
Southeast Florida District
1900 South Congress Avenue
West Palm Beach, Florida 33406

Re: City of Coral Springs and Florida National Properties, Inc.; Consent Order OGC Case No. 87-0269

Dear Mr. Benyon:

Enclosed herein for your review and signature please find three copies of the above-referenced Consent Order as executed by the City of Coral Springs and Florida National Properties, Inc., in the above-styled matter.

After the Consent Order has been executed by the Department, it would be greatly appreciated if you could advise this office of the date that the Consent Order is filed with the Clerk of the Department. Additionally, I also anticipate that a fully executed copy of the Agreement will be forwarded to this office.

Thank you for your cooperation in this matter.

Sincerely,

E. Austin White

E. Austin White
Attorney

EAW/jrw
Enc.
cc: Martin J. Hanna, Esquire, Assistant City Attorney, City of Coral Springs
Mr. Paul Wierzbicki, DER
Mr. Roger Dyess, FNP

DRAFT

jm - PW

OFFICE OF THE CITY ATTORNEY
CITY OF CORAL SPRINGS FLORIDA

9551 WEST SAMPLE ROAD
P.O. BOX 754501
CORAL SPRINGS, FL 33075-4501
TELEPHONE (305) 344-1010

October 29, 1987

Mr. Paul Wierzbicki
Department of Environmental Regulation
Southeast Florida District
1900 South Congress Avenue
West Palm Beach, Florida 33406

Re: Consent Order, OGC Case No. 87-0269

Dear Mr. Wierzbicki:

I am in receipt of the most recent draft of the abovementioned Consent Order sent to the City on October 23, 1987. Our staff has had a chance to review the proposed Consent Order and has two comments:

1. On page 1 of the Agreement, paragraph 3, the description of the property is incorrect. The description should read as follows:

   "Florida National Properties, Inc., a Florida Corporation,, owns the property in the Northeast corner of the intersection of the Sawgrass Expressway and Northwest 39th Street, located in Township 48 South, Range 41 East, Section 18,. . ."

2. Page 3, paragraph 12, 4th line down, add the word **"existing"** before the word "potable." That line would read as follows:

   ". . .Administrative Code Chapter 17-22 to replace any existing potable water well. . ."

Thank you for your assistance in this matter.

Sincerely,

Martin J. Hanna

Martin J. Hanna
Assistant City Attorney

MJH/jmn

cc: E. Austin White, Florida National Properties, Inc.
William N. Brady, City Manager
Donald H. Swets, Director of Public Works
Robert W. Glenn, Assistant Director of Public Works

RECEIVED
NOV. 2 1987
Dept. of Environmental Reg.
West Palm Beach

DRAFT

P-593 079 220

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to Mr. William N. Brad	
Street and No. 9551 W. Sample Rd.	
P.O., State and ZIP Code Coral Springs, FL 33075	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date 10/23/87	

REW:paw/157
#87-9269 City of Coral Springs

PS Form 3800, June 1985

U.S.G.P.O. 153-506

DRAFT

UNITED STATES POSTAL SERVICE

OFFICIAL BUSINESS

SENDER INSTRUCTIONS

Print your name, address, and ZIP Code in the space below.

- Complete items 1, 2, 3, and 4 on the reverse.
- Attach to front of article if space permits, otherwise affix to back of article.
- Endorse article "Return Receipt Requested" adjacent to number.

RECEIVED

OCT 29 1987

Dept. of Environmental Reg.
West Palm Beach

U.S.MAIL

PENALTY FOR PRIVATE USE, $300

RETURN TO

Print Sender's name, address, and ZIP Code in the space below.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
1900 SOUTH CONGRESS AVE., SUITE A
WEST PALM BEACH, FL 33406

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery.

3. Article Addressed to:

Mr. William N. Brady
City Manager
City of Coral Springs
9551 W. Sample Rd.
Coral Springs, FL 33075

4. Article Number

P-593 079 220

Type of Service:

☐ Registered ☐ Insured
☑ Certified ☐ COD
☐ Express Mail

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee

X

6. Signature — Agent

X Pat Perone

7. Date of Delivery

10/26/87

8. Addressee's Address *(ONLY if requested and fee paid)*

PS Form 3811, Feb. 1986 DOMESTIC RETURN RECEIPT

DRAFT

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

FILE

SOUTHEAST FLORIDA DISTRICT
1900 SOUTH CONGRESS AVENUE
WEST PALM BEACH, FLORIDA 33406

BOB MARTINEZ
GOVERNOR
DALE TWACHTMANN
SECRETARY
J. SCOTT BENYON
DISTRICT MANAGER

OCT 23 1987

DRAFT

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. William N. Brady
City Manager
City of Coral Springs
9551 West Sample Road
Coral Springs, Florida 33075

Dear Mr. Brady:

RE Consent Order, OGC Case No. 87-0269

Enclosed are two original pages one and two of a revision to the Consent Order mailed to you on October 16, 1987.

Please replace pages one and two of the Consent Order with the pages enclosed.

Should you have questions, please contact Mr. Paul Wierzbicki at telephone 305/964-9668.

We apologize for any inconvenience this has caused.

Sincerely,

Richard E. Walesky

Richard E. Walesky
Enforcement Section Head

REW:paw/157

cc: Office of General Counsel, DER, Tallahassee
City of Coral Springs
Florida National Properties, Inc.
Mr. E. Austin White
Broward County Environmental Quality Control Board
West Palm Beach DER files

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION, Complainant, vs. CITY OF CORAL SPRINGS and FLORIDA NATIONAL PROPERTIES, INC. Respondents.	IN THE OFFICE OF THE SOUTHEAST FLORIDA DISTRICT OGC Case No. 87-0269

CONSENT ORDER

Pursuant to the provisions of Sections 403.121(2) and 120.57(3), Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Rule 17-103.110, this Consent Order is entered into between the State of Florida Department of Environmental Regulation ("Department"), Florida National Properties, Inc. ("Respondent Florida National") and the City of Coral Springs("Respondent Coral Springs") to reach settlement of certain matters at issue among the Department and Respondents.

The Department finds, and Respondents, while not admitting culpability, agree to the following:

1. The Department is the administrative agency of the State of Florida having the power and duty to control and prohibit pollution of air and water in accordance with Chapter 403, F.S., and rules promulgated thereunder. The Department has jurisdiction over the matters addressed in this Consent Order.

2. Respondent Coral Springs is a municipality which operates a solid waste transfer station at 39 Street and the Sawgrass Expressway, Coral Springs, Broward County, Florida.

3. Florida National Properties, Inc., a Florida corporation, owns the property bounded by Northwest 39 Street, Northwest 127 Avenue, and the Sawgrass Expressway, located in Township 48 South, Range 41 East, Section 18, Broward County, Florida, upon which Respondent Coral Springs operates the solid waste transfer station referenced above.

DRAFT

4. On October 8, 1986, the Department inspected the solid waste transfer station operated by Respondent Coral Springs.

5. As a result of that inspection, the Department issued a Notice of Violation and Orders for Corrective Action (NOV) to Respondents on April 13, 1987, alleging violations of Chapter 403, F.S., and rules promulgated thereunder. The terms of the NOV are incorporated herein by reference.

6. Respondents requested to meet in informal conference, pursuant to F.A.C. Rule 17-103.090. On May 6, 1987, the Department met with Respondent Florida National in informal conference. On May 20, the Department met with both Respondents in informal conference. During that meeting, and in subsequent correspondence, the issues raised in the Department's NOV have been resolved.

THEREFORE, having reached a resolution of the matter pursuant to F.A.C. Rule 17-103.110(3), Respondents and the Department mutually agree and it is

ORDERED:

7. Respondent Coral Springs shall immediately cease to cause or allow refuse, trash, or other solid wastes to be deposited on the land or waters located at its solid waste transfer station, described above. Respondent Coral Springs shall take appropriate and reasonable measures to ensure that wastes will not be deposited in this manner. Henceforth, Respondent Coral Springs shall not operate a solid waste management facility without an appropriate and valid Department permit.

8. Respondent Coral Springs shall implement the Preliminary Contamination Assessment Actions attached hereto as Exhibit I in the manner and within the time frames specified. The Preliminary Contamination Assessment Plan prepared by Camp Dresser and McKee on May 29, 1987 has been approved by the Department and may be implemented.

9. In the event the Preliminary Assessment described in Exhibit I reveals the presence of contaminants in the soil, sediment, surface water and/or groundwater in violation of water quality standards or minimum criteria set forth in F.A.C. Chapter

DRAFT

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
ENFORCEMENT TELEPHONE LOG

CASE NAME: City of Coral Springs DATE: 10/22/87

CONTACT:

****

DISCUSSION:

Left - messages for

- Mr. Brady (City of Coral Springs)
- Mr. Hanna

re: Co revision

PREPARED BY: Paul Wierzbicki

DRAFT

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
ENFORCEMENT TELEPHONE LOG

CASE NAME: Coral Springs Transfer DATE: 10/21/87

CONTACT: A Austin White

****

DISCUSSION:

-3 typos noted on CO.

1) 1st para – Coral Ridge Prop. should read "City of Coral Springs."

2) para 3 "127" Ave + Section "18"

3) page 2 para 6 Resp. "Florida National" to replace Coal Ridge

PREPARED BY: Paul Weyforth

DRAFT

P-593 079 198

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to William N. Brady	
Street and No. 9551 W. Sample Rd	
P.O. State and ZIP Code Coral Springs, FL 33075	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date OCT 16 1987	

OSB:pwd/145 CITY OF CORAL SPRINGS
CO #87-0269

PS Form 3800, June 1985

U.S.G.P.O. 153-506

DRAFT

UNITED STATES POSTAL SERVICE

OFFICIAL BUSINESS

SENDER INSTRUCTIONS

Print your name, address, and ZIP Code in the space below.

- Complete items 1, 2, 3, and 4 on the reverse.
- Attach to front of article if space permits, otherwise affix to back of article.
- Endorse article "Return Receipt Requested" adjacent to number.

RECEIVED

OCT 21 1987

Dept. of Environmental Reg.
West Palm Beach

U.S.MAIL

PENALTY FOR PRIVATE USE, $300

RETURN TO

Print Sender's name, address, and ZIP Code in the space below.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
1900 SOUTH CONGRESS AVE., SUITE A
WEST PALM BEACH, FL 33406

DRAFT

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery.

3. Article Addressed to:

Mr. William N. Brady
City of Coral Springs
9551 W. Sample Rd.
Coral Springs, FL 33075

4. Article Number
P-593 079 198

Type of Service:

☐ Registered ☐ Insured
☑ Certified ☐ COD
☐ Express Mail

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X

6. Signature — Agent
X Pat Boone

7. Date of Delivery
10/19/87

8. Addressee's Address *(ONLY if requested and fee paid)*

PS Form 3811, Feb. 1986 DOMESTIC RETURN RECEIPT

DRAFT

FILE

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHEAST FLORIDA DISTRICT
1900 SOUTH CONGRESS AVENUE
WEST PALM BEACH, FLORIDA 33406

BOB MARTINEZ
GOVERNOR
DALE TWACHTMANN
SECRETARY
J. SCOTT BENYON
DISTRICT MANAGER

OCT 16 1987

DRAFT

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. William N. Brady
City Manager
City of Coral Springs
9551 West Sample Road
Coral Springs, Florida 33075

Dear Mr. Brady:

RE: City of Coral Springs and Florida National Properties, Inc.;
Consent Order OGC Case No. 87-0269

Enclosed for your review and signature are three copies of the Consent Order drafted by the Department in the above-styled case. The Consent Order represents the resolution acceptable to the Department in this matter.

Please review, sign and return all copies within twenty (20) days from the date of receipt to this office for Department signature and distribution. Should you have any questions concerning the Consent Order please contact Mr. Paul Wierzbicki at 305/964-9668.

Sincerely,

J. Scott Benyon
District Manager

JSB:pwd/145

Enclosure

cc: Office of General Counsel, DER, Tallahassee
City of Coral Springs
Florida National Properties, Inc.
Mr. E. Austin White
Broward County Environmental Quality Control Board
Solid Waste Section, DER, West Palm Beach
West Palm Beach DER Files

FILE

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHEAST FLORIDA DISTRICT
1900 SOUTH CONGRESS AVENUE
WEST PALM BEACH, FLORIDA 33406

BOB MARTINEZ
GOVERNOR
DALE TWACHTMANN
SECRETARY
J. SCOTT BENYON
DISTRICT MANAGER

September 29, 1987

Mrs. Janice A. Manita
Code Enforcement Department
City of Parkland
6500 Parkside Drive
Parkland, Florida 33067

Broward County
SW-City of Parkland

Dear Mrs. Manita:

REF: September 15, 1987 Letter

SUB: Land Clearing Debris

In response to your letter, I have enclosed a copy of Chapter 17-7, Florida Administrative Code (F.A.C.) and the applicable applications for your perusal. Your attention should be focused on the definitions in Section 17-7.020 (F.A.C.) and applicable permit requirements/prohibitions in Sections 17-7.030 through 17-7.120, F.A.C. respectively. From reading the text of your letter, it is difficult to determine whether you are trying to operate a construction and demolition debris site as defined in Section 17-7.020(14), F.A.C. for the residents or, is it your intention to have a vegetative yard trash disposal site as defined in Section 17-7.020(72), F.A.C. In any event, due to the uncertainty of your proposed operation, it would appear that you are trying to operate a Class III landfill as a construction and demolition debris site without the benefit of a department permit. I believe it would be prudent of the city to seek advise from legal counsel regarding your proposed endeavor and any lease agreements before the city attempts this operation. The intent of the regulations for a construction and demolition debris site was for land clearing of a construction/demolition debris project, not for neighborhood disposal of yard trash and prunings.

Should you have any questions concerning this matter, please contact Mr. Joe Lurix of this office at telephone number 305/ 964-9668.

Sincerely,

Vivek Kamath

Vivek Kamath, Supervisor
Industrial and Solid Waste Permitting

cc: BCEQCB

VK/jl

City of Parkland
6500 Parkside Drive
Parkland, Florida 33067
(305) 753-5040

RECEIVED
'87 SEP 18 PM 2 51
FLA. DEPARTMENT OF
ENVIRONMENTAL REG.
WEST PALM BEACH

September 15, 1987

State Department of Environmental Regulations
1900 South Congress Avenue
West Palm Beach, Florida

Attention Mr. Joe Lurix

Dear Mr. Lurix:

The City of Parkland and Coral Ridge Properties are presently working on a proposal that will allow Parkland residents to dispose of land clearing debris at a designated area within the Coral Ridge Properties Golf Course boundaries presently being filled.

I am enclosing the correspondence, between the City and Coral Ridge Properites, notes, and suggested procedure to be used by the City. Coral Ridge Properties is in the process of drawing up a lease at this time.

Our primary concern is keeping within the D.E.R. guidelines.

The City would appreciate your review of the enclosed, and any comments regarding rquirements for your approval.

Please do not hesitate to call if you have any questions.

Thank you.

Sincerely,

Janice A. Mantia
Code Enforcement Department

JAM/rw

cc: Mike Vanetta, Coral Ridge Properties
Robert Daniels, Director of Planning

DRAFT

ENFORCEMENT TRACKING
FINAL 8/21/87
INITIAL | DATE
PAW | 8/25/87
Seg | 8/27/87
MW | 9/1/87

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION, Complainant, vs. CITY OF CORAL SPRINGS and CORAL RIDGE PROPERTIES, INC., Respondents.	IN THE OFFICE OF THE SOUTHEAST FLORIDA DISTRICT OGC Case No. 87-0269

DRAFT

CONSENT ORDER

Pursuant to the provisions of Sections 403.121(2) and 120.57(3), Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Rule 17-103.110, this Consent Order is entered into between the State of Florida Department of Environmental Regulation ("Department"), the City of Coral Springs ("Respondent Coral Springs") and Coral Ridge Properties, Inc. ("Respondent Coral Ridge") to reach settlement of certain matters at issue among the Department and Respondents.

The Department finds, and Respondents, while not admitting culpability, agree to the following:

1. The Department is the administrative agency of the State of Florida having the power and duty to control and prohibit pollution of air and water in accordance with Chapter 403, F.S., and rules promulgated thereunder. The Department has jurisdiction over the matters addressed in this Consent Order.

2. Respondent Coral Springs is a municipality which operates a solid waste transfer station at 39 Street and the Sawgrass Expressway, Coral Springs, Broward County, Florida.

OFFICE OF THE CITY ATTORNEY
CITY OF CORAL SPRINGS FLORIDA

9551 WEST SAMPLE ROAD
P.O. BOX 754501
CORAL SPRINGS, FL 33075-4501
TELEPHONE (305) 344-1010

PW ⇒ PW
WR

RECEIVED
'87 SEP 24 PM 1 51
FL... DEPT OF
ENV... REG.
WEST PALM BEACH

September 22, 1987

Mr. Paul Wierzbicki
Department of Environmental Regulation
1900 South Congress Avenue
West Palm Beach, Florida 33406

Re: City of Coral Springs and Coral Ridge Properties, Inc., Consent Order; OGC Case No. 87-0269

Dear Mr. Wierzbicki:

I have been advised by Mr. Austin White of Coral Ridge Properties that their letter to you dated September 18, 1987, requested certain modifications to the above-captioned Consent Order. Pursuant to my conversation with Mr. White, it is my understanding that DER will prepare the new order and send it to us for signature, at which time we will then forward it to Coral Ridge Properties. Further, it is my understanding that the deadline of September 24, 1987, for receipt of these documents to the Department of Environmental Regulation has been extended.

If you have any questions or concerns regarding the above, please do not hesitate to contact me.

Very truly yours,

Martin J. Hanna
Assistant City Attorney

MJH/jmn

cc: E. Austin White, Esq.

DRAFT

PW → PW
DR

Coral Ridge

CORAL RIDGE PROPERTIES, INC. / 3300 UNIVERSITY DRIVE / CORAL SPRINGS, FLORIDA 33065 / AREA CODE 305-752-1100

RECEIVED
87 SEP 21 PM 2 32
FLA. DEPARTMENT OF
ENVIRONMENTAL REG.
WEST PALM BEACH

September 18, 1987

Mr. Paul Wierzbicki
Department of Environmental Regulation
1900 South Congress Avenue
West Palm Beach, Florida 33406

Re: City of Coral Springs and Coral Ridge Properties, Inc., Consent Order; OGC Case No. 87-0269

Dear Mr. Wierzbicki:

I am in receipt of the letter dated September 2, 1987 from Mr. J. Scott Benyon, District Manager of the Florida Department of Environmental Regulation, to Mr. William N. Brady, City Manager of the City of Coral Springs, and the proposed Consent Order prepared by the Department relating to the above-referenced matter.

Please be advised that the Consent Order contains an inaccurate statement in paragraph 3 thereof. The property referred to therein is owned by Florida National Properties, Inc., a Florida corporation, which is a subsidiary of Coral Ridge Properties, Inc., a Deleware corporation. Therefore, the proposed Consent Order must be revised to reflect this fact prior to its execution by the City of Coral Springs or Coral Ridge Properties, Inc./Florida National Properties, Inc.

Please feel free to call me if you have any questions or comments concerning this matter.

Sincerely,

E. Austin White
Attorney

EAW/jrw
cc: M. Hanna, Esq.
Assistant City Attorney

DRAFT

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
ENFORCEMENT TELEPHONE LOG

CASE NAME: City of Coral Spgs / Coral Ridge DATE: 9/18/87

CONTACT: Mr Austin White 305/792-1100 @ 11:30

****

DISCUSSION:

- Site owned by Florida National Properties, Inc. a subsidiary of Coral Ridge Properties.
- C.O. must be reused to show this.
- A letter from White stating this is being sent.

PREPARED BY: Paul Clay Weyhrich

DRAFT

P-517 215 463

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNAL MAIL

(See Reverse)

Sent to	William N. Brady
Street and No.	9551 W. Sample Rd.
P.O., State and ZIP Code	Coral Springs, FL 33075
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	JSB:pwd/27 9/3/87 enf. #87-0269 "City of Coral Springs."

PS Form 3800, June 1985

U.S.G.P.O. 153-506

DRAFT

UNITED STATES POSTAL SERVICE

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Print your name, address, and ZIP Code in the space below.

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U.S.MAIL

PENALTY FOR PRIVATE USE, $300

RETURN TO

RECEIVED

SEP 8 1987

Dept. of Environmental Reg.
West Palm Beach

Print Sender's name, address, and ZIP Code in the space below.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
1900 SOUTH CONGRESS AVE., SUITE A
WEST PALM BEACH, FL 33406

DRAFT

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

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1. ☑ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery.

3. Article Addressed to:

Mr. William N. Brady
City of Coral Springs
9551 W. Sample Rd.
Coral Springs, FL 33075

4. Article Number
P-517 215 463

Type of Service:

☐ Registered ☐ Insured
☑ Certified ☐ COD
☐ Express Mail

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X

6. Signature — Agent
X Pat Pierce

7. Date of Delivery
9-4-87

8. Addressee's Address *(ONLY if requested and fee paid)*

Same as above

PS Form 3811, Feb. 1986 DOMESTIC RETURN RECEIPT

DRAFT

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

FILE

SOUTHEAST FLORIDA DISTRICT
1900 SOUTH CONGRESS AVENUE
WEST PALM BEACH, FLORIDA 33406

BOB MARTINEZ
GOVERNOR
DALE TWACHTMANN
SECRETARY
J. SCOTT BENYON
DISTRICT MANAGER

SEP 0 2 1987

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. William N. Brady, City Manager
City of Coral Springs
9551 West Sample Road
Coral Springs, Florida 33075

Dear Mr. Brady:

RE: City of Coral Springs and Coral Ridge Properties, Inc., Consent Order; OGC Case No. 87-0269

Enclosed for your review and signature are three copies of the Consent Order drafted by the Department in the above-styled case. The Consent Order represents the resolution acceptable to the Department in this matter.

Please review, sign and return all three copies within twenty (20) days from the date of receipt to this office for Department signature and distribution. Should you have any questions concerning the Consent Order please contact Mr. Paul Wierzbicki at 305/964-9668.

Sincerely,

J. Scott Benyon
District Manager

JSB:pwd/27

Enclosure

cc: Office of General Counsel, DER, Tallahassee
Broward County Environmental Quality Control Board
Solid Waste Permitting Section, DER, West Palm Beach
Solid Waste Section, DER, Tallahassee
Mr. E. Austin White
West Palm Beach DER Files

DRAFT

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION, Complainant, vs. CITY OF CORAL SPRINGS and CORAL RIDGE PROPERTIES, INC., Respondents.	:	IN THE OFFICE OF THE SOUTHEAST FLORIDA DISTRICT OGC Case No. 87-0269

CONSENT ORDER

Pursuant to the provisions of Sections 403.121(2) and 120.57(3), Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Rule 17-103.110, this Consent Order is entered into between the State of Florida Department of Environmental Regulation ("Department"), the City of Coral Springs ("Respondent Coral Springs") and Coral Ridge Properties, Inc. ("Respondent Coral Ridge") to reach settlement of certain matters at issue among the Department and Respondents.

The Department finds, and Respondents, while not admitting culpability, agree to the following:

1. The Department is the administrative agency of the State of Florida having the power and duty to control and prohibit pollution of air and water in accordance with Chapter 403, F.S., and rules promulgated thereunder. The Department has jurisdiction over the matters addressed in this Consent Order.

2. Respondent Coral Springs is a municipality which operates a solid waste transfer station at 39 Street and the Sawgrass Expressway, Coral Springs, Broward County, Florida.

DRAFT

3. Respondent Coral Ridge is a Delaware corporation which owns the property bounded by Northwest 39 Street, Northwest 126 Avenue, and the Sawgrass Expressway, located in Township 48 South, Range 41 East, Section 19, Broward County, Florida, upon which Respondent Coral Springs operates the solid waste transfer station referenced above.

4. On October 8, 1986, the Department inspected the solid waste transfer station operated by Respondent Coral Springs.

5. As a result of that inspection, the Department issued a Notice of Violation and Orders for Corrective Action (NOV) to Respondents on April 13, 1987, alleging violations of Chapter 403, F.S., and rules promulgated thereunder. The terms of the NOV are incorporated herein by reference.

6. Respondents requested to meet in informal conference, pursuant to F.A.C. Rule 17-103.090. On May 6, 1987, the Department met with Respondent Coral Ridge in informal conference. On May 20, the Department met with both Respondents in informal conference. During that meeting, and in subsequent correspondence, the issues raised in the Department's NOV have been resolved.

THEREFORE, having reached a resolution of the matter pursuant to F.A.C. Rule 17-103.110(3), Respondents and the Department mutually agree and it is

ORDERED:

7. Respondent Coral Springs shall immediately cease to cause or allow refuse, trash, or other solid wastes to be deposited on the land or waters located at its solid waste transfer station, described above. Respondent Coral Springs shall take appropriate and reasonable measures to ensure that wastes will not be deposited in this manner. Henceforth, Respondent Coral Springs shall not operate a solid waste management facility without an appropriate and valid Department permit.

8. Respondent Coral Springs shall implement the Preliminary Contamination Assessment Actions attached hereto as

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Exhibit I in the manner and within the time frames specified. The Preliminary Contamination Assessment Plan prepared by Camp Dresser and McKee on May 29, 1987 has been approved by the Department and may be implemented.

9. In the event the Preliminary Assessment described in Exhibit I reveals the presence of contaminants in the soil, sediment, surface water and/or groundwater in violation of water quality standards or minimum criteria set forth in F.A.C. Chapter 17-3, or reveals the presence of contaminants which may reasonably be expected to cause pollution of the surface and/or groundwater of the State in excess of such standards or criteria, Respondent Coral Springs shall implement the corrective actions in the manner and within the time frames set forth in the document entitled "Corrective Actions for Groundwater Contamination Cases," attached hereto as Exhibit II. Such time frames shall begin upon Department notification that the presence of contaminants has been confirmed and that such corrective actions are necessary.

10. Respondent Coral Ridge shall allow Respondent Coral Springs reasonable access to the property in question for the purpose of carrying out the corrective actions required pursuant to paragraphs 8 and 9, above.

11. Respondent Coral Springs shall pay to the Department $5,180.00 in settlement for the matters raised in this Consent Order. This amount includes a monetary settlement of $4,680.00 for alleged violations of Department rules and $500.00 as payment for costs and expenses incurred by the Department while investigating this matter. The amount shall be made payable to the "State of Florida Department of Environmental Regulation" and shall be submitted to the Department's Southeast Florida District, 1900 South Congress Avenue, Suite A, West Palm Beach, Florida 33406, within forty-five (45) days of the entry of this Consent Order. For and in consideration of the complete and timely performance by Respondents of the obligations

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agreed to in this Consent Order, the Department waives its right to seek judicial imposition of civil penalties concerning the issues involved in this Consent Order.

12. Respondent Coral Springs shall provide within a reasonable time at its expense a permanent safe drinking water supply meeting all drinking water standards set forth in Florida Administrative Code Chapter 17-22 to replace any potable water well that is shown by chemical and hydrogeologic analysis to be contaminated by Respondent Coral Springs' operations.

13. Persons not parties to this Consent Order but whose substantial interests are affected by this Consent Order have a right, pursuant to Section 120.57, F.S., to petition for an administrative determination (hearing) on it. The petition must conform to the requirements of F.A.C. Chapters 17-103 and 28-5, and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within fourteen (14) days of receipt of this notice. Failure to file a petition within the fourteen (14) days constitutes a waiver of any right such person has to an administrative determination (hearing) pursuant to Section 120.57, F.S.

14. Respondents waive their rights to an administrative hearing on the terms of this Consent Order under Section 120.57, F.S., and their right to appeal this Consent Order pursuant to Section 120.68, Florida Statutes.

15. Nothing herein shall be construed to limit the authority of the Department to undertake any action against Respondents in response to or to recover the costs of responding to conditions at or from the site which may present an imminent hazard to the public health, welfare or the environment if:

(1) Either previously unknown or undetected conditions at or from the site or other previously unknown facts are discovered after execution by the Parties of the Consent Order; or

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(2) The conditions are caused by the implementation of the Remedial Action Plan or this Consent Order.

16. Entry of this Consent Order does not relieve Respondents of the need to comply with applicable federal, state, or local laws, regulations, or ordinances.

17. The terms and conditions set forth in this Consent Order may be enforced in a court of competent jurisdiction pursuant to Sections 120.69 and 403.121, F.S. Failure to comply with the terms of this Consent Order shall constitute a violation of Section 403.161(1)(b), F.S.

18. Respondents are fully aware that a violation of the terms of this Consent Order may subject Respondents to judicial imposition of damages, civil penalties of up to $10,000 per offense, and criminal penalties.

19. Respondents shall allow all authorized representatives of the Department access to the property at reasonable times for purposes of determining compliance with this Consent Order and the rules and regulations of the Department.

20. The Department hereby expressly reserves the right to initiate appropriate legal action to prevent or prohibit the future violation of applicable statutes, or the rules promulgated thereunder not covered by the terms of this Consent Order.

21. No modification of the terms of this Consent Order shall be effective until reduced to writing and executed by both the Respondents and the Department except as otherwise specified in Exhibits I and II.

22. All reports, plans, and data required by this Consent Order to be submitted to the Department should be sent to the Environmental Manager, Enforcement Section, Florida Department of Environmental Regulation, 1900 South Congress Avenue, Suite A, West Palm Beach, Florida 33406 and to the Bureau of Operations, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.

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23. This Consent Order is the final agency action of the Department pursuant to Section 120.69, F.S., and F.A.C. Rule 17-103.110(3), and it is final and effective on the date filed with the Clerk of the Department unless a Petition for Administrative Hearing is filed in accordance with Chapter 120, F.S. Upon the timely filing of a petition, this Consent Order will not be effective until further order of the Department.

FOR RESPONDENT CORAL SPRINGS:

_____
Date

_____
MR. WILLIAM N. BRADY, City Manager
City of Coral Springs
9551 West Sample Road
Coral Springs, Florida 33075

FOR RESPONDENT CORAL RIDGE:

_____
Date

_____
MR. W. BUNTEMEYER, President
Coral Ridge Properties, Inc.
3300 University Drive
Coral Springs, Florida 33065

DONE AND ORDERED this _____ day of _____, 1987, in West Palm Beach, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

_____
J. SCOTT BENYON, District Manager
Southeast Florida District
1900 S. Congress Avenue, Suite A
West Palm Beach, Florida 33406
Telephone: 305/964-9668

Copies furnished to:
Office of General Counsel, DER, Tallahassee
Broward County Environmental Quality Control Board
Solid Waste Section, DER, West Palm Beach
Mr. E. Austin White
West Palm Beach DER Files

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PRELIMINARY CONTAMINATION ASSESSMENT ACTIONS

1. Within 30 days of the effective date of the Order incorporating these preliminary contamination assessment actions, Respondent shall submit a Preliminary Contamination Assessment Plan ("PCAP") to the Department. The PCAP shall describe the tasks that Respondent proposes to perform in order to determine whether the soil, sediment, surface water and/or groundwater are contaminated at Respondent's facility; and if so, whether such contamination has resulted in a violation of the water quality standards and minimum criteria established in Florida Administrative Code Chapter 17-3. The PCAP shall include a time schedule for each task so that all tasks can be completed and a Preliminary Contamination Assessment Report ("PCAR") can be submitted to the Department within 90 days of the effective date of the Order.

2. The PCAP shall contain proposals for sampling and analysis for all of the following contaminants:

a. priority pollutant metals;

b. priority pollutant organic chemicals using EPA methods 624 and 625;

c. all organic chemicals with peaks greater than five micrograms per liter (ug/l) using EPA methods 624 and 625;

d. pesticides.

The number of contaminants to be analyzed may be reduced if Respondent can demonstrate to the Department's satisfaction that the contaminants proposed to be deleted from the list cannot be attributed to any activities that have taken place at Respondent's facility. The Department shall submit written notification to the Respondent if the number can be reduced.

3. The Department shall review the PCAP and provide Respondent with a written response to the proposal. Respondent shall not implement the PCAP until Respondent receives written notification from the Department that the PCAP has been approved.

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4. Additionally, the PCAP shall include a description of Quality Assurance procedures, such as:

a. details of monitoring well construction

b. sampling equipment and methods

c. analytical methods and detection limits

If contaminants are not detected or are detected at levels less than water quality standards, then information describing lab precision and accuracy must accompany the data for validation.

5. Upon completion of the PCAP, Respondent shall submit a written Preliminary Contamination Assessment Report ("PCAR") to the Department. The PCAR shall:

a. summarize and analyze all PCAP tasks;

b. compare analytical data collected with surface and groundwater quality standards and criteria set forth in Florida Administrative Code Chapter 17-3;

c. identify, to the extent possible, the source(s), extent, and concentrations of contaminants, and the existence of any imminent hazards.

6. The Department shall review the PCAR and determine whether it is adequate to meet the objectives of the PCAP. In the event that additional information is necessary to evaluate the PCAR, the Department shall make a written request and Respondent shall provide all requested information within 20 days of receipt of said request.

7. Respondent shall provide written notification to the Department at least ten days prior to the installation or sampling of any monitoring wells, and shall allow Department personnel the opportunity to observe installation and sampling and to take split samples. All necessary approvals must be obtained from the Water Management District before any wells are installed. Raw data shall be exchanged between Respondent and the Department as soon as the data is available.

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8. If the Department's review of the PCAR indicates that the soil, sediments, surface water or groundwater is contaminated, or if the Department rejects the PCAP or PCAR for not meeting the objectives for analyzing or reporting on the analysis of the contaminants that are the subject of the assessment, the Department reserves the right to do any or all of the following:

a. seek further administrative relief through the filing of a Notice of Violation or entry of a Consent Order which requires Respondent to conduct further assessment and cleanup at its facility;

b. file suit for injunctive relief, civil penalties, damages and expenses, or

c. perform the necessary corrective actions at Respondent's facility and recover the costs of such actions from Respondent.

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CORRECTIVE ACTIONS FOR GROUNDWATER CONTAMINATION CASES

1. Within 60 days, Respondent shall submit to the Department a detailed written Contamination Assessment Plan ("CAP") unless the Department has required prior submittal of a Preliminary Contamination Assessment Plan ("PCAP"), in which case the Department will notify Respondent as to whether or not a CAP will be required.

A. The objectives of the CAP shall be to:

(1) Establish the areal and vertical extent of soil, sediment, surface water and groundwater contamination;

(2) Determine or confirm the contaminant source(s); mechanisms of contaminant transport; rate and direction of contaminant movement in the air, soils, surface water and groundwater; and rate and direction of groundwater flow;

(3) Provide a complete characterization of the contamination plume(s);

(4) Determine whether interim remedial measures are necessary to abate any imminent hazard.

B. The CAP shall contain tasks, the purposes of which are to arrive at the objectives described in subparagraph 1.A. above. The CAP shall include a reasonable time schedule for completing each task. The tasks may include but are not limited to the following:

(1) Use of piezometers to determine the horizontal and vertical directions of the groundwater flow;

(2) Use of electromagnetic conductivity (EM) and other geophysical methods to trace extent of groundwater contamination;

(3) Use of fracture trace analysis to discover linear zones in which discrete flow could take place;

(4) Use of sand point or monitoring wells to sample areas of contaminated groundwater and to determine the vertical and horizontal extent of the groundwater plume;

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(5) Sampling of private wells;

(6) Sampling of surface water and sediments;

(7) Sampling of air for airborne contaminants;

(8) Soil sampling surveys using grid systems; geophysical equipment such as EM, magnetometers, and metal detectors to detect drums, tanks, etc; vapor analyzers; and Extraction Procedure (EP) toxicity testing;

(9) Analysis of soils and drum residues for hazardous waste determination and waste characterization.

C. The CAP shall include a quality assurance/quality control plan ("QA/QC Plan"), which shall apply to all sampling and analysis required by this Consent Order. The QA/QC Plan shall be prepared in accordance with the requirements set forth in the document entitled "DER Guidelines for Preparing Quality Assurance Plans, DER-QA-001/85". A copy of the document is available upon request from the Department. A QA/QC Plan is required for all persons collecting or analyzing samples. The Department reserves the right to reject all results submitted by Respondent prior to QA/QC Plan approval.

2. The Department shall review the CAP and provide the Respondent with a written response to the proposal. Respondent shall not implement the CAP until Respondent receives written notification from the Department that the CAP has been approved.

3. In the event that additional information is necessary for the Department to evaluate the CAP, the Department shall make a written request to Respondent for the information, and Respondent shall provide all requested information in writing to the Department within 20 days from receipt of said request unless the requested information requires additional field work in which case the Respondent shall submit to the Department a written schedule for completing the field work needed to provide the requested information.

4. In the event that the Department determines that the CAP submitted by Respondent does not adequately address the objectives

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Respondent shall then have 30 days from the Department's notification to resubmit a modified CAP addressing the deficiencies noted by the Department.

5. If the Department determines upon review of the resubmitted CAP that the CAP still does not adequately address the objectives of the CAP as set forth in subparagraph 1.A. above, the Department, at its option, may choose either to:

A. Draft specific modifications to the CAP and notify Respondent in writing that the Department's modifications shall be incorporated in the CAP; or

B. Notify Respondent that Respondent has failed to comply with paragraph four above, in which case the Department may do any or all of the following: take legal action to enforce compliance, file suit to recover damages and civil penalties, or complete the corrective actions outlined herein and recover the costs of completion from Respondent.

6. Once a CAP has been approved by the Department it shall become effective and shall be implemented within ten days of the Department's notification to Respondent that the CAP has been approved. The CAP shall incorporate all required modifications to the CAP identified by the Department.

7. Within 45 days of completion of the tasks in the CAP, Respondent shall submit a written contamination assessment report ("CAR") to the Department. The CAR shall:

A. Summarize and analyze all CAP tasks;

B. Discuss the CAP objectives outlined in subparagraph 1.A.; and

C. Specify conclusions regarding CAP objectives outlined in subparagraph 1.A.

8. The Department shall review the CAR and determine whether it has adequately met the objectives specified in subparagraph 1.A. In the event that additional information is necessary to evaluate the CAR, the Department shall make a written request and Respondent shall provide all requested information

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within 20 days of receipt of said request unless the requested information requires additional field work in which case the Respondent shall submit in writing to the Department a reasonable schedule for completing the field work needed to provide the requested information.

9. If the Department determines from review of the CAR that there is a need for a Feasibility Study ("FS"), Respondent shall submit to the Department for its review a Feasibility Study Plan ("FSP"). The FSP shall be submitted within 30 days of receipt by Respondent of the Department's determination that a FS for a particular site is necessary. The purpose of the FS is to develop and evaluate all alternatives in order to identify the most cost effective and environmentally sound remedial action for the site. The FSP shall provide an outline of the elements to be included in the FS and shall explain how Respondent plans to address each of the elements. The FSP shall provide a detailed description of the technical approach Respondent shall use to address each task to be conducted during the FS. At a minimum, the FSP shall address the following task elements:

A. The objectives of the remedial action, as required by Department rules and state and federal statutes: e.g., to prevent groundwater contamination; to remove, contain or render harmless the contamination source; to cleanup to the water quality criteria and minimum standards in Florida Administrative Code Chapter 17-3; etc.;

B. Risk assessment, which shall include consideration of the toxicity, transport mechanisms, persistence in the environment, and impacts on human health and the environment of the substances associated with the site;

C. Methods to quantify contaminant movement off-site, to identify impact zones, and to identify and quantify hazardous zones;

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D. Development of criteria for evaluation of remedial alternatives for the site, to include at a minimum, environmental protection, environmental effects, implementability, capital costs, operations and maintenance costs, present worth, safety requirements during implementation, reliability, operation and maintenance requirements, feasibility, time required to achieve cleanup, and legal consideration of the alternatives;

E. Identification and review of pertinent treatment, containment, removal and disposal technologies;

F. Screening of technologies to detect the most appropriate technologies and to eliminate those clearly not feasible or appropriate;

G. Pilot tests or bench tests to evaluate the alternatives if necessary;

H. Review and selection of potential remedial alternatives using criteria established in tasks D through G above:

I. Selection of the best remedial alternative; and

J. A reasonable timetable for completion of the tasks.

10. The Department shall review the FSP and provide Respondent with a response to the proposal. Respondent shall not implement the FS tasks until Respondent receives written notification from the Department that the FSP has been approved.

11. In the event that additional information is necessary for the Department to evaluate the FSP, the Department shall make a written request, and Respondent shall provide all requested information in writing to the Department within 20 days from receipt of said request.

12. In the event that the Department determines that the FSP submitted by Respondent does not adequately address the objectives in paragraph nine, the Department will notify Respondent in writing of the FSP's deficiencies. Respondent shall then have 20 days from the Department's notification to submit a modified FSP addressing the deficiencies noted by the Department.

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13. If the Department determines upon review of the resubmitted FSP that the FSP still is not adequate, the Department, at its option, may choose either to:

A. Draft specific modifications to the FSP and notify Respondent in writing that the Department's modifications shall be incorporated in the FSP; or

B. Notify Respondent that Respondent has failed to comply with paragraph 12 above, in which case the Department may do any or all of the following: take legal action to enforce compliance, file suit to recover damages and civil penalties, or complete the corrective actions outlined herein and recover the costs of completion from Respondent.

14. Once the FSP, with modifications, if any, has been approved by the Department, it shall become effective and shall be implemented by Respondent within ten days of the Department's notification to Respondent that the FSP has been approved.

15. Within 45 days of completing the FS, Respondent shall submit a FS Report to the Department. The FS Report shall:

A. Summarize and analyze all FS task results; and

B. Propose a conceptual remedial action plan based on the selection process carried out in the FS.

16. The Department shall review the FS Report and determine whether it has adequately met the remedial action objectives. In the event that additional information is necessary to evaluate the FS report, the Department shall make a written request and Respondent shall provide all requested information witin 20 days from receipt of said request.

17. Within 45 days of receipt of written approval of the FS Report from the Department or within 30 days of the Department's determination pursuant to paragraph nine above that no FS is necessary, Respondent shall submit to the Department a detailed Remedial Action Plan ("RAP"). The RAP shall include:

A. Design and construction details for the remedial alternative selected;

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B. Operational details of the remedial action;

C. QA/QC and safety plans; and

D. Proposed methodology for evaluation of the site status after the remedial action is complete to verify accomplishment of the goals of the RAP.

18. Remedial tasks shall be designed to achieve cleanup of the contaminated areas to levels that meet the water quality standards and criteria established by the Department, or such other levels as may be set forth in the FS Report, if done.

19. The Department shall review the proposed RAP and provide Respondent with a written response to the proposal. Respondent shall not implement the RAP until Respondent receives written notification from the Department that the RAP has been approved.

20. In the event that additional information is necessary for the Department to evaluate the RAP, the Department shall make a written request to Respondent for the information, and Respondent shall provide all requested information in writing to the Department within 20 days from receipt of said request unless the requested information requires additional field work in which case the Respondent shall submit in writing to the Department a reasonable schedule for completing the field work needed to provide the requested information.

21. In the event that the Department determines that the RAP submitted by the Respondent does not adequately address the objectives set forth in paragraphs 17 and 18, the Department will notify the Respondent in writing of the RAP's deficiencies. The Respondent shall then have 20 days from the Department's notification to resubmit a modified RAP addressing the deficiencies noted by the Department.

22. If the Department determines upon review of the resubmitted RAP that the RAP still does not adequately address the objectives of the RAP, the Department, at its option, may chose to either:

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A. Draft specific modifications to the RAP and notify the Respondent in writing that the Department's modifications shall be incorporated into the RAP; or

B. Notify the Respondent that Respondent has failed to comply with the paragraph 21 above, in which case the Department may do any or all of the following: take legal action to enforce compliance, file suit to recover damages and civil penalties, or complete the corrective actions outlined herein and recover the costs of completion from Respondent.

23. Once a RAP has been approved by the Department, it shall become effective and shall be implemented within ten days of the Department's notification to the Respondent that the RAP has been approved. The RAP shall incorporate all required modifications to the RAP identified by the Department.

24. On the first working day of each month, after beginning implementation of a CAP, FSP or RAP, Respondent shall submit written progress reports to the Department. These progress reports shall describe the status of each required CAP, FSP and RAP task. The reports shall be submitted until planned tasks have been completed to the satisfaction of the Department.

25. Respondent shall provide written notification to the Department at least ten days prior to installing monitoring or recovery wells, and shall allow Department personnel the opportunity to observe the location and installation of the wells. All necessary approvals must be obtained from the Water Management District before Respondent installs the wells.

26. Respondent shall provide written notification to the Department at least ten days prior to any sampling, and shall allow Department personnel the opportunity to observe sampling or to take split samples. Raw data shall be exchanged between the Respondent and the Department as soon as the data are available.

27. If any event occurs which causes delay or the reasonable likelihood of delay in the achievement of the requirements of these Corrective Actions, Respondent shall have the burden of

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proving that the delay was or will be caused by circumstances beyond the reasonable control of Respondent, and could not have been or cannot be overcome by due diligence. Upon occurrence of the event Respondent shall promptly notify the Departmnent verbally and shall, within seven calendar days, notify the Department in writing of the anticipated length and cause of delay, the measures taken or to be taken to prevent or minimize the delay, and the timetable by which Respondent intends to implement these measures. If the parties can agree that the delay or anticipated delay has been or will be caused by circumstances beyond the reasonable control of Respondent, the time for performance hereunder shall be extended for a period equal to the delay resulting from such circumstances. Such agreement shall be confirmed by letter from the Department accepting or if necessary modifying the extension request. Respondent shall adopt all reasonable measures necessary to avoid or minimize delay. Failure of Respondent to comply with the notice requirements of this paragraph shall constitute a waiver of Respondent's right to request an extension of time to complete the requirements of these Corrective Actions. Increased costs of performance of any of the activities set forth in these Corrective Actions or changed economic circumstances shall not be considered circumstances beyond the control of Respondent.

28. Respondent shall immediately notify the Department of any problems encountered by Respondent which require modification of any task in the approved CAP, FSP or RAP, and obtain Department approval prior to implementing any such modified tasks.

29. All sampling and analysis required under these Corrective Actions shall be accomplished pursuant to the following procedures:

A. All sampling shall be done in the manner consistent with Standard Operation Procedures and Quality Assurance Manual, August 1980, U.S. Environmental Protection Agency, Region IV, and Supplement "A" thereto, June, 1981, FDER;

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B. All laboratory data submitted shall contain a complete explanation of quality control procedures used to guarantee the reliability and accuracy of analytical data, and those laboratory procedures used shall be those approved by the Department. The test methods to be used in analyzing any parameters shall be the EPA approved test methods for the specific parameter to be analyzed unless otherwise notified by the Department;

C. All field testing, sample collection and preservation, and laboratory testing, including quality control procedures, shall be in accordance with the QA/QC plan approved by the Department.

30. Should the Department conclude that cleanup of the contaminated area to levels meeting the standards and criteria set forth in Chapter 17-3, Florida Administrative Code, is not feasible, or should Respondent not completely implement the RAP as approved by the Department, the Department may seek restitution from Respondent for environmental damages resulting from pollution of the groundwater as a result of Respondent's actions. Within 20 days of receipt of Department notification of its intent to seek said restitution, Respondent may pay the amount of the damages or may, if it so chooses, initiate negotiations with the Department regarding the monetary terms of restitution to the State. Respondent is aware that should a negotiated sum or other compensation for environmental damages not be agreed to by the Department and Respondent within 20 days of receipt of Department notification of its intent to seek restitution, the Department may institute appropriate action, either administrative, through a Notice of Violation, or judicial, in a court of competent jurisdiction through a civil complaint, to recover Department assessed environmental damages pursuant to Section 403.141, Florida Statutes.

DRAFT

Coral Ridge

CORAL RIDGE PROPERTIES, INC./3300 UNIVERSITY DRIVE/CORAL SPRINGS, FLORIDA 33065/AREA CODE 305-752-1100

DRAFT

July 30, 1987

Mr. J. W. "Bill" Stevens
Parkland City Manager
6500 Parkside Drive
Parkland, Florida 33067

Dear Bill:

Enclosed are proposed regulations for the area CRP has offered to the City of Parkland for residents to dispose of land clearing debris. The intent is to provide an area for the dumping of materials that are allowed by CRP's Land Disturbance Permit and the D.E.R. without having to classify the area as a Class III landfill.

Also, once we establish the regulations, then a lease will have to be drawn up, which CRP will do. Some of the things that need to be addressed are:

1 - City personnel are responsible for area operations

2 - City is responsible for spreading of material

3 - once fence is installed, the City is responsible for maintenance

4 - City is to secure any and all applicable permits or approvals

5 - nothing is to be disposed of other than muck, trees, and boulders

6 - anything dumped in violation of the permit is the responsibility of the City

7 - any road deterioration (e.g., Holmberg) due to hauling is the City's responsibility

8 - CRP reserves the right to inspect the area at any time

9 - no unsuitable materials will be allowed

Bill, if all of this is agreeable, I will begin drawing up the lease. We are anxious to get started, so that Parkland residents can begin taking advantage of the area.

Sincerely,

Michael N. Vanatta
Development Department

MNV:rnc

Enclosure

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NOTES FOR LEASE WITH CRP FOR DUMP SITE

REQUIRED BY SECTION 8-7 LANDFILL

(a)(1) Plot Plan - CRP to provide

(a)(2) Description of work - Nature, City to do verbal

QUESTIONS

CAN CRP PROVIDE PLOT PLAN - yes

ECONOMY OF SCALE - USE CITY ENGINEER TO MONITOR CRP PERMITTED SITE AND OURS TOO?

ANY PROBLEM WITH THE FORM WE HAVE COME UP WITH.

(c) Registered Engineer or Surveyor - ok

QUESTION

DOES THE CITY SITE ACTIVITY FALL WITHIN PURVIEW OF CRP'S PLAN - yes

1. **CITY PERSONNEL ARE RESPONSIBLE FOR AREA OPERATIONS**

   SITE TO BE IN OPERATION SATURDAY AND SUNDAY
   8:00 AM TO 5:00 pm

   CITY TO DETERMINE THE NUMBER OF LOADS TO BE DUMPED
   CITY TO DETERMINE TO COST TO THE RESIDENT
   CITY TO DETERMINE THE BOND TO BE POSTED

2. **CITY IS RESPONSIBLE FOR SPREADING MATERIAL.**

   CITY TO DETERMINE WHEN SPREADING IS NECESSARY
   CITY TO CONTRACT FOR WORK TO BE DONE
   COST FOR SPREADING AN HOUR PER CRP

3. **ONCE FENCE IS INSTALLED, THE CITY IS RESPONSIBLE FOR MAINTENANCE.**

   CRP TO INSTALL FENCE
   CITY TO BE RESPONSIBLE FOR FENCE. CRP NOT TO DUMP WITHIN 75 FEET OF FENCE.
   CITY AND CRP TO MOVE FENCE WHEN NECESSARY
   CRP TO MAINTAIN AREA AROUND FENCE AND ROADWAY LEADING TO FENCE TO FACILITATE DUMPING.

4. **CITY IS TO SECURE ANY AND ALL APPLICABLE PERMITS AND APPROVAL**

DRAFT

CITY WILL BE THE ONLY AUTHORITY TO ISSUE PERMITS.

5. **NOTHING IS TO BE DISPOSED OF OTHER THAN MUCK, TREES, AND BOULDERS**

CLEAN FILL WILL ALSO BE ACCEPTED

6. **ANYTHING DUMPED IN VIOLATION OF THE PERMIT IS THE RESPONSIBILITY OF THE CITY**

ANYTHING DUMPED INSIDE THE FENCE AREA IN VIOLATION IS THE RESPONSIBILITY OF THE CITY.

7. **ANY ROAD DETERIORATION (E.G., HOLMBERG) DUE TO HAULING IS THE CITY'S RESPONSIBILITY.**

ANY ROAD DETERIORATION ON HOLMBERG ROAD **ONLY** IS THE RESPONSIBILITY OF THE CITY.

DRAFT

LANDFILL/DUMPING PERMIT

CITY OF PARKLAND PROPERTY OWNERS ONLY

THE PURPOSE OF THIS PERMIT IS TO ALLOW THE RESIDENTS OF THE CITY OF PARKLAND TO DUMP DEBRIS SUCH AS HOLLY, BOULDERS, MUCK, OR ANY CLEAN FILL MATERIAL.
ABSOLUTLY NO GRASS CUTTINGS OR CONSTRUCTION MATERIAL WILL BE ACCEPTED. GRASS CUTTINGS EMIT GASES AND ARE HIGHLY COMBUSTIBLE AND WILL NOT BE ALLOWED BY THE D.E.R.

PORCEDURE

1. APPLY FOR PERMIT FROM PUBLIC WORKS DIRECTOR

   A. PROPERTY OWNER MUST SUBMIT:

      1. UTILITY BILL OR LOT CLEARING PERMIT
      2. DRIVER LICENSE
      3. TAG # OF VEHICLE TO BE USED

   PERMIT IS GOOD FOR THE SPECIFIC DAY INDICATED ON THE PERMIT, AS MANY TRIPS AS NECESSARY.

   B. FEE SCHEDULE, PER PERMIT, AS FOLLOWS:

PICKUP/VAN	$ 5.00
DUMP TRUCK:	
1. SINGLE AXLE	25.00
2. TANDEM	50.00
3. 3 AXLE	75.00
4. 30YD TRAILER	100.00

   COMMERCIAL VEHICLES WILL BE PERMITTED AS LONG AS THE PERMIT HOLDER, OR HIS DESIGNEE IS ON BOARD AT TIME OF DUMPING.

   REGARDLESS OF NUMBER OF TRIPS.

1. C. BOND MUST BE POSTED AS FOLLOWS:

PICKUP VAN	$ 100.00
SINGLE AXLE	100.00
TANDEM	1,000.00
3 AXLE	1,000.00
30 YD TRAILOR	1,000.00

2. WHEN ARRIVING AT DUMP SITE ATTENDANT WILL:

   A. CHECK PERMIT,LICENSE,VEHICLE TAG FROM LIST FURNISHED BY THE PUBLIC WORKS DIRECTOR FOR THAT SPECIFIC DAY.

DRAFT

1. OWNER, WHO HAS APPLIED FOR PERMIT, OR DESIGNEE MUST ACCOMPANY EACH LOAD TO BE DUMPED.

B. ATTENDANT WILL DETERMINE IF DEBRIS TO BE DUMPED IS ACCEPTABLE.

1. IF ACCEPTABLE, AND DUMPED PROPERLY ATTENDANT WILL SIGN PERMIT ALLOWING RESIDENT TO COME TO CITY HALL, AFTER THREE (3) WORKING DAYS, AND RECEIVE BOND MONEY BACK FROM PUBLIC WORKS DIRECTOR.

2. IF NOT ACCEPTABLE - HOLD PERMIT REFUSE DUMPING

3. IF NOT ACCEPTABLE AND DUMPS ANYWAY - ATTENDANT IS TO RADIO PUBLIC SAFETY, AND THEY WILL ISSUE A CITATION.

4. IF RESIDENT DID ANY DAMAGE OR DUMPED IMPROPERLY ATTENDANT WILL HOLD PERMIT AND TURN IT INTO THE PUBLIC WORKS DIRECTOR WHO SHALL ASSESS THE AMOUNT OF DAMAGE, AND RETURN THE BALANCE OR BILL, FOR THE DIFFERENCE, TO THE RESIDENT.

DRAFT

LANDFILL/DUMPING PERMIT

DATE_____

NAME_____

ADDRESS_____

CITY_____ZIP_____

PHONE_____

DATE TO BE USED_____LOT CLEARING PERMIT #_____

TYPE OF TRUCK_____TAG #_____

AMOUNT OF BOND POSTED_____CASH_____CHECK #_____

FEE PAID_____CASH_____CHECK #_____

_____
AUTHORIZED SIGNATURE

I UNDERSTAND THAT I AM RESPONSIBLE FOR FOLLOWING THE PROCEDURE SET DOWN BY THE CITY OF PARKLAND.

I HAVE RECEIVED A COPY OF THE PROCEDURE.

_____
SIGNATURE OF PERMIT HOLDER

SIGNATURE OF DUMP ATTENDANT:_____

BOND REFUNDED_____AMOUNT_____

FOR OFFICE USE ONLY

IF REFUND IS LESS THAN BOND, PLEASE STATE WHY.

_____

_____

_____

BOND REFUNDED BY:_____

ANY IMPROPER DUMPING IS IN VIOLATION OF ORDINANCE #85-11 AND SHALL BE A VIOLATION OF CODE ENFORCEMENT.

DRAFT

CONSENT ORDER TRACKING

TO: JACK CHISOLM
~~David Crowley~~
Office of General Counsel

FROM: Richard E. Walesky

DATE: July 20, 1987 7-28-87

Attached is a draft Consent Order for your review:

Case Name: CORAL SPRINGS TRANSFER STATION

OGC #: 87-0269

Program Area: SW

County: BROWARD

District Contact: TOM COZZIE

Comments: PCAP AND CORRECTIVE ACTIONS TO BE ATTACHED.

DRAFT

Pursuant to the provisions of Sections 403.121(2) and 120.57(3), Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Rule 17-103.110, this Consent Order is entered into between the State of Florida Department of Environmental Regulation ("Department"), the City of Coral Springs ("Respondent Coral Springs") and Coral Ridge Properties, Inc. ("Respondent Coral Ridge") to reach ^ spoken settlement of certain matters at issue among the Department and Respondents.

The Department finds, and ~~the~~ Respondents, while not admitting culpability, agree to the following:

1. The Department is the administrative agency of the State of Florida having the power and duty to control and prohibit pollution of air and water in accordance with Chapters 403, ~~Florida Statutes~~, and rules promulgated thereunder. The Department has jurisdiction over the matters addressed in this Consent Order.

PLEASE FINALIZE

ENFORCEMENT TRACKING
DRAFT 7/15/87 D.

INITIAL	DATE
TCOZ	7/15/87
9'	7/28/87
C.S.O	8/12/87
	8/13/87
TCOZ	8/20/87

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION, Complainant, vs. CITY OF CORAL SPRINGS ~~AND~~ and CORAL RIDGE PROPERTIES, INC., Respondents.	IN THE OFFICE OF THE SOUTHEAST FLORIDA DISTRICT OGC Case No. 87-0269

CONSENT ORDER

Pursuant to the provisions of Sections 403.121(2) and 120.57(3), Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Rule 17-103.110, this Consent Order is entered into between the State of Florida Department of Environmental Regulation ("Department"), the City of Coral Springs ("Respondent Coral Springs") and Coral Ridge Properties, Inc. ("Respondent Coral Ridge") to reach settlement of certain matters at issue among the Department and Respondents.

The Department finds, and ~~the~~ Respondents, while not admitting culpability, agree to the following:

1. The Department is the administrative agency of the State of Florida having the power and duty to control and prohibit pollution of air and water in accordance with Chapters 403, ~~Florida Statutes~~, and rules promulgated thereunder. The Department has jurisdiction over the matters addressed in this Consent Order.

2. Respondent Coral Springs is a municipality which operates a solid waste transfer station at 39 Street and the Sawgrass Expressway, Coral Springs, Broward County, Florida.

DRAFT

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

DISTRICT ROUTING SLIP

TO: Richard B Walesky DATE: 8-12-87

			CC TO
	PENSACOLA	**Northwest District**	
	PANAMA CITY	Northwest District Branch Office	
	TALLAHASSEE	Northwest District Branch Office	
	TAMPA	**Southwest District**	
	ORLANDO	**Central Florida District**	
	MELBOURNE	Central Florida District Branch Office	
	JACKSONVILLE	**Northeast District**	
	GAINESVILLE	Northeast District Branch Office	
	FORT MYERS	**South Florida District**	
	PUNTA GORDA	South Florida District Branch Office	
	MARATHON	South Florida District Branch Office	
✓	WEST PALM BEACH	**Southeast Florida District**	
	PORT ST. LUCIE	Southeast Florida District Branch Office	

Reply Optional ☐ Reply Required ☐ Info Only ☐
Date Due _____ Date Due _____

COMMENTS:

Reviewed. No comment

RECEIVED
AUG 18 1987
Dept. of Environmental Reg.
West Palm Beach

FROM: TEL:

Charles C Dwinnell 278 9730

DRAFT

PENALTY ASSESSMENT SUMMARY FORM

TO: File

SUBJECT: Penalty Assessment Calculations

CASE NAME: City of Coral Springs / Transfer Station

DATE: 4/10/87

****

Committee Members: R. Walsh
P. Wierzbicki
T Cozzie
J Van Arman

****

Violation #	Potential for Harm	Extent of Deviation	Adjustments	Total Penalty
all ~~Moderate~~	Moderate	Major	+20%	$4680

TOTAL PENALTY ASSESSMENT: $4680

DRAFT

PENALTY ASSESSMENT WORK SHEET

CASE AREA: S.W.

CASE NAME: City of Coral Springs / Transfer Station

REGULATION VIOLATED: operating a Transfer Station w/out Permit

Assessments for each violation should be determined on separate worksheets and totalled on the Penalty Assessment Summary Form.

Part I - Seriousness of Violation Penalty

1. Potential for Harm: Moderate
2. Extent of Deviation: Major

(Note matrix cell range and adjustments)

3. Penalty amount chosen: $3900
4. Per-day assessment: _____

Part II - Penalty Adjustments

	Percent Change	Dollar Amount
1. Good faith efforts:		
2. Degree of willfulness and/or negligence:	+20%	780
3. History of non-compliance:		
4. Unique factors:		
5. Adjusted per-day penalty (Part I, Line 4 and Part II, Lines 1 - 4):		
6. Number of days in Violation:		
7. Multi-day penalty (Line 5 X Line 6):		
8. Economic benefit of Non-compliance:		
9. Total (Lines 7 + 8):		
10. Ability to pay adjustment:		

TOTAL PENALTY AMOUNT $4680

Potential for Harm Justification:

Extent of Deviation Justification:

Justification for Penalty Adjustments:

Continued operating after notification

Matrix Cell Ranges		Extent of Deviation from Requirement		
		Major	Moderate	Minor
Potential for Harm	Major	$10,000 to $8,000	$7,999 to $6,000	$5,999 to $4,600
	Moderate	$4,599 to $3,200	$3,199 to $2,000	$1,999 to $1,200
	Minor	$1,199 to $600	$599 to $200	$199 to $100

REVISIONS OF PENALTY

Justification for Revisions:

Potential for Harm: _____

Extent of Deviation: _____

TOTAL REVISED PENALTY: _____

DRAFT

P 433 525 980

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

Sent to
Mr. Martin J. Hanna
Street and No.
9551 w. Sample Road
P.O. Box 754501
P.O., State and ZIP Code
Coral Springs, FL 33075

Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	7/9/87

City of Coral Springs &
Coral Ridge Properties

RE[redacted]:tcd Enf.

PS Form 3800, June 1985 * U.S.G.P.O. 1985-480-79

DRAFT

UNITED STATES POSTAL SERVICE
OFFICIAL BUSINESS

SENDER INSTRUCTIONS
Print your name, address, and ZIP Code in the space below.
- Complete items 1, 2, 3, and 4 on the reverse.
- Attach to front of article if space permits, otherwise affix to back of article.
- Endorse article "Return Receipt Requested" adjacent to number.

RECEIVED
JUL 15 19

U.S.MAIL

PENALTY FOR PRIVATE USE, $300

Dept. of Environmental Reg.
West Palm Beach

RETURN TO

Print Sender's name, address, and ZIP Code in the space below.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
1900 SOUTH CONGRESS AVE., SUITE A
WEST PALM BEACH, FL 33406

DRAFT

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery.

3. Article Addressed to:

Mr. Martin J. Hanna
Assistant City Attorney
City of Coral Springs
9551 w. Sample Road
P.O. Box 754501
Coral Springs, FL 33075

4. Article Number

P 433 525 980

Type of Service:

☐ Registered ☒ Certified ☐ Express Mail ☐ Insured ☐ COD

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee

X

6. Signature — Agent

X

7. Date of Delivery

7-14-87

8. Addressee's Address *(ONLY if requested and fee paid)*

PS Form 3811, Feb. 1986 DOMESTIC RETURN RECEIPT

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHEAST FLORIDA DISTRICT
1900 SOUTH CONGRESS AVENUE
WEST PALM BEACH, FLORIDA 33406

BOB MARTINEZ
GOVERNOR
DALE TWACHTMANN
SECRETARY
J. SCOTT BENYON
DISTRICT MANAGER

JUL 09 1987

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Martin J. Hanna
Assistant City Attorney
City of Coral Springs
9551 West Sample Road
Post Office Box 754501
Coral Springs, Florida 33075

Dear Mr. Hanna:

Re: DER vs. City of Coral Springs and Coral Ridge Properties, Inc.; OGC Case No. 87-0269

The Department has reviewed the City of Coral Springs' plans to achieve compliance at its waste transfer station, which were submitted on May 28, 1987. The Department considers the plans for interim compliance to be an acceptable temporary remedy while the city constructs a permanent waste transfer facility. The Department also approves the construction plans for the permanent facility, which were signed and sealed on May 28, 1987 by Louis C. Aurigemma, P.E.

The Department has also completed its review of the Preliminary Contamination Assessment Plan prepared by Camp, Dresser and McKee, Inc. This plan is adequate to determine whether contamination exists as a result of the transfer station activities. The city of Coral Springs and Camp, Dresser and McKee, Inc. may proceed with implementation of the plan.

The Department will begin drafting a Consent Order to resolve the issues raised in the Department's Notice of Violation (NOV) for review and execution by the parties to that NOV. In the meantime, the informal conference shall remain open until further notice from the Department.

DRAFT

JUL. 09 1987

Should you have any questions or comments, contact Mr. Tom Cozzie of this office, telephone (305) 964-9668.

Sincerely,

Richard E. Walesky
Enforcement Section Head

TC:DD/13

cc: Office of General Counsel, DER, Tallahassee
Broward County Environmental Quality Control Board
Mr. Donald Swets, City of Coral Springs
Mr. Austin White, Coral Ridge Properties
Solid Waste Section, DER, WPB
West Palm Beach DER Files

DRAFT

FILE COPY

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHEAST FLORIDA DISTRICT
1900 SOUTH CONGRESS AVENUE
WEST PALM BEACH, FLORIDA 33406

BOB MARTINEZ
GOVERNOR
DALE TWACHTMANN
SECRETARY
J. SCOTT BENYON
DISTRICT MANAGER

JUL 09 1987

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Martin J. Hanna
Assistant City Attorney
City of Coral Springs
9551 West Sample Road
Post Office Box 754501
Coral Springs, Florida 33075

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DRAFT

JUL. 09 1987

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Sincerely,

Richard E. Walesky
Enforcement Section Head

TC:DD/13

cc: Office of General Counsel, DER, Tallahassee
Broward County Environmental Quality Control Board
Mr. Donald Swets, City of Coral Springs
Mr. Austin White, Coral Ridge Properties
Solid Waste Section, DER, WPB
West Palm Beach DER Files

DRAFT

PAW 4/30/17

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

Interoffice Memorandum

FOR ROUTING TO OTHER THAN THE ADDRESSEE	
To:	Loctn:
To:	Loctn:
To:	Loctn:
From:	Date:

TO: Tom Cozzie/Paul Wierzbicki

FROM: Patrick G. Smith, Groundwater Permitting

DATE: June 29, 1987

SUBJECT: Review of PCAP for Coral Springs Transfer Station

The PCAP submitted by the City of Coral Springs should adequately determine the presence or absence of contamination due to the transfer station activities.

PS:my

DRAFT

EXHIBIT "D"

RECEIVED
'87 JUN 2 PM 1 56
FLA. DEPARTMENT OF
ENVIRONMENTAL REG.

PRELIMINARY CONTAMINATION ASSESSMENT PLAN

CITY OF CORAL SPRINGS WASTE TRANSFER STATION, OGC
CASE NO. 87-0289

DRAFT

Prepared By:

Camp Dresser & McKee Inc.
Fort Lauderdale, Florida

PRELIMINARY CONTAMINATION ASSESSMENT PLAN

CITY OF CORAL SPRINGS WASTE TRANSFER STATION, OGC
CASE NO. 87-0289

This Preliminary Contamination Assessment Plan (PCAP) is being prepared and submitted in response to the Notice of Violation and Orders for Corrective Action filed by the Florida Department of Environmental Regulation (FDER) against the City of Coral Springs, Florida Case No. 87-0289, for activities related to the City's solid waste transfer station. In accordance with the Notice of Violation this PCAP includes a description of tasks to be performed and a schedule for completion.

1.0 BACKGROUND

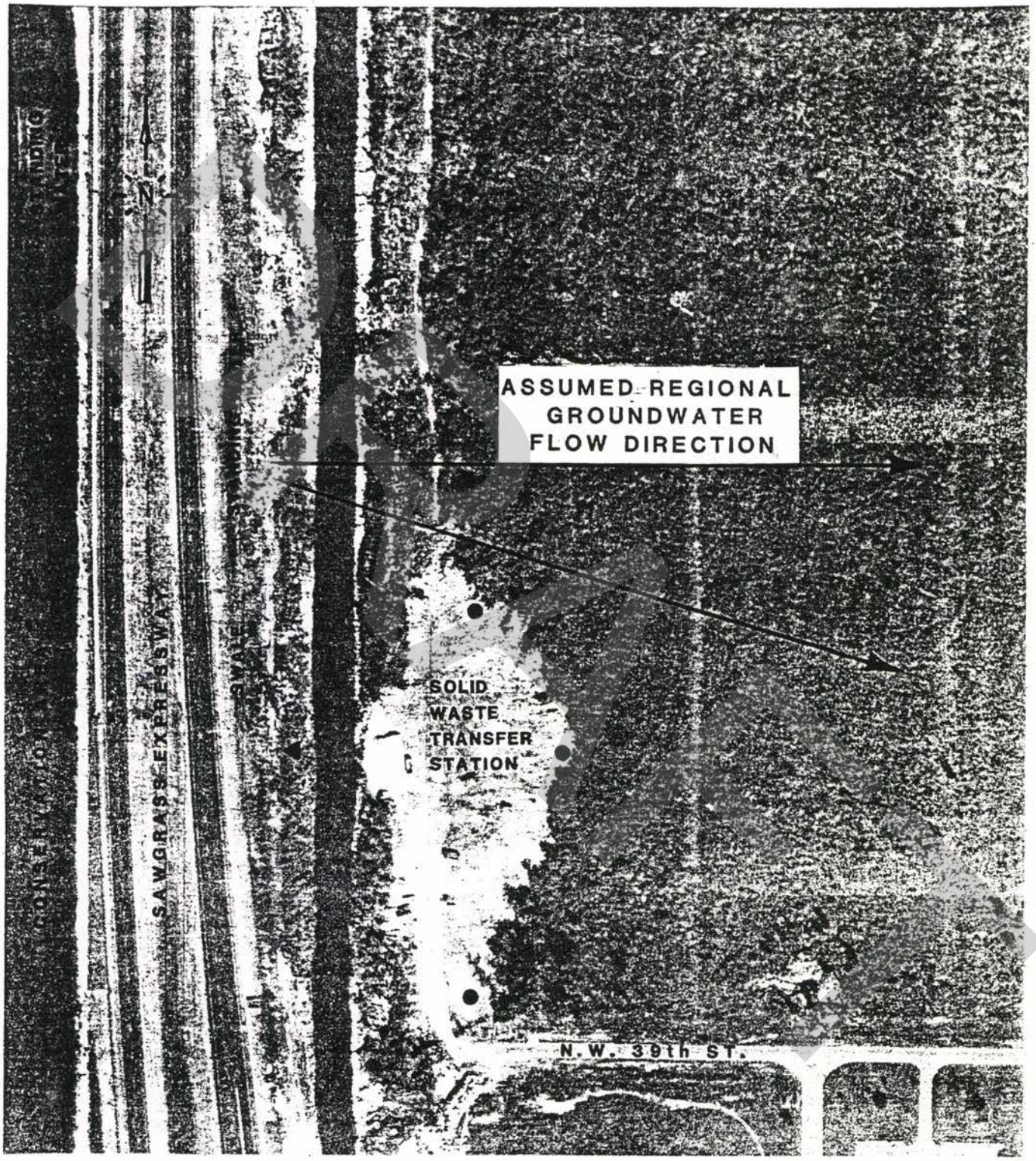
The City of Coral Springs began operating the solid waste transfer station in early 1975. The site is located adjacent to the Sawgrass Expressway and north of Northwest 39th Street, and is accessed via Northwest 39th Street (Figure 1).

The transfer station, during its entire use, has been open only to trash such as yard trimmings, construction materials, old furniture and discarded appliances, and the like. The site has always been manned by a responsible city employee whose job it is to check incoming trash for household garbage or any kind of hazardous materials. City officials have stated that the latter materials have never been allowed to be deposited at the site. In 1985, during the construction of the Sawgrass Expressway, a canal was dug along the western portion of the site, reducing its size.

The site has been operated solely as a transfer station for trash. From the time the City began its operation, the materials brought in were allowed to remain on the ground no longer than 14 days and in most cases were cleared within 10 days. The materials were then picked up by a front end loader and placed in 30 yard containers which were hauled to the

DRAFT

Figure 1



LEGEND

● COMPLIANCE MONITOR WELLS

▲ BACKGROUND WELL

CRLSPRGS.WRG
5/28/87

Central Disposal landfill by a local firm, Southern Sanitation. The same process continued until 1986, when the Broward County Environmental Quality Control Board (EQCB) requested that the City not allow newly deposited trash to remain on the ground longer than seven days. The City complied with that request and has maintained the seven day schedule ever since.

There has been and is to date no evidence of contamination at the solid waste transfer site. Due to the short time period that a given article or deposit of trash remained on the site, and the fact that incoming trash was inspected and potentially harmful substances refused entry (i.e. no long term point source pollution) there is no source for the continued generation of leachate at this site. It seems unlikely that significant contamination will be found to exist.

The City has initiated a program whereby all future trash brought to the site will be placed in 30 yard containers. This practice will continue until the new transfer station is constructed in accordance with the FDER criteria on a site just south of Northwest 39th Street.

2.0 THE PLAN

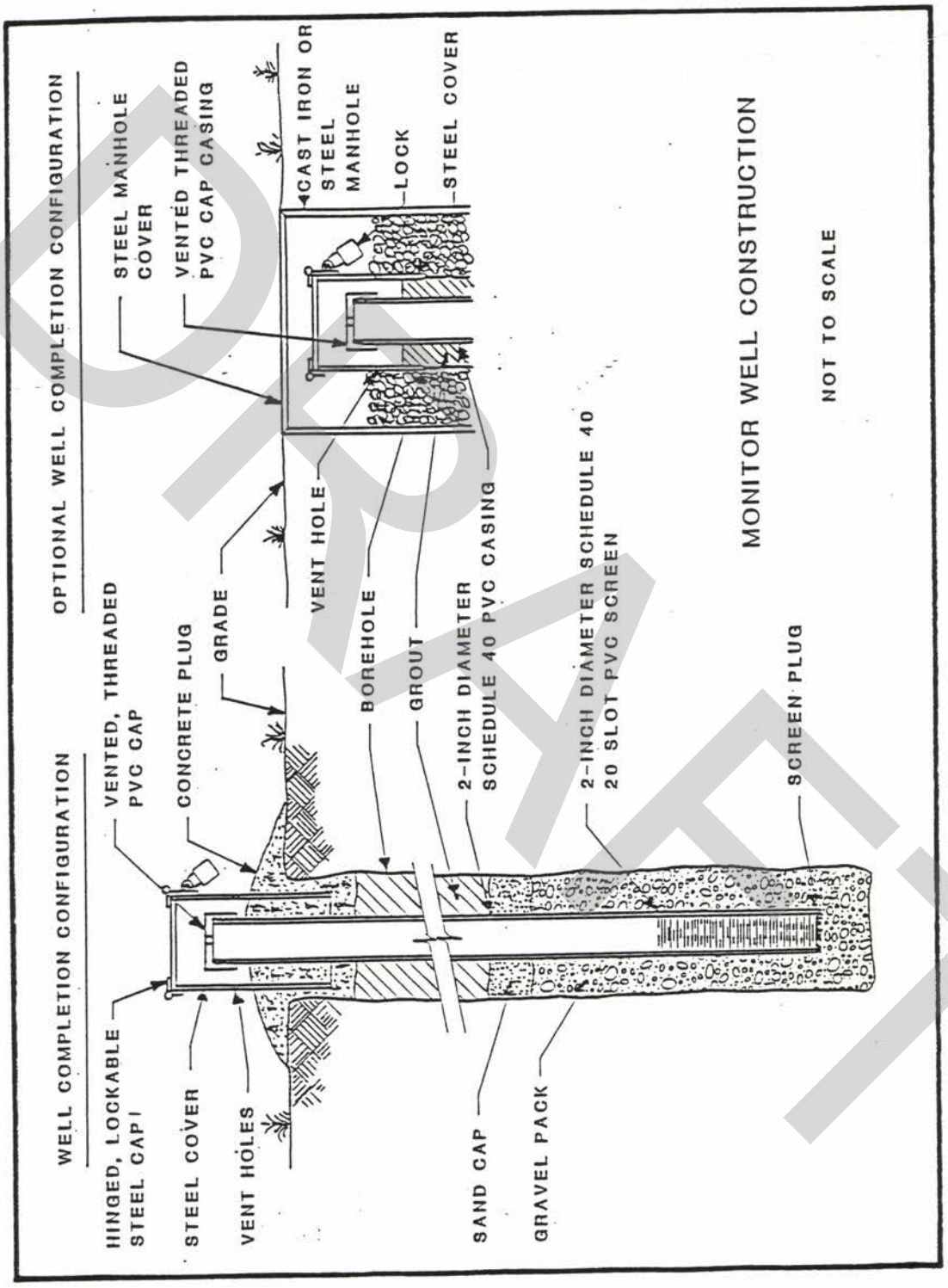
The plan for the City of Coral Springs transfer station site includes monitoring of groundwater and monitoring surface water in the canal adjacent to the site. Based upon the results of the analyses, further activities could be initiated, if they are warranted.

2.1 Groundwater Monitoring

Groundwater monitoring will be initiated at four locations around the site (Figure 2). The consideration of existing data and of the fact that trash delivered stayed no longer than fourteen days on site, virtually eliminated the possibility of any long term contamination or leaching from a single source (i.e. a leaking barrel) had such been allowed on site. Therefore CDM proposes that shallow wells, intersecting the water table, screened to

DRAFT

Figure 2



DRAFT

CRLSPRGS.WRG
5/28/87

a depth of 15 feet be used. If water quality analysis from these wells indicate that contamination exists, further monitoring at greater depths and to locate the extent of contamination would be initiated as the data would indicate.

2.2 Monitor Well Construction

Monitor wells will be constructed so that the well screen will be below the seasonal low water table level. Shallow wells will be constructed using 5- or 10-feet lengths of new, 2-inch nominal diameter, flush joint, square-threaded, schedule 40, PVC pipe (Figure 2). The borehole will be drilled to provide a minimum of a 2-inch annulus. The well screens will be 10-foot lengths of 2-inch nominal diameter, mill slotted, 10 slot (0.010 inch) PVC pipe closed at the bottom with a plug. No PVC cement will be used in the construction of the monitor wells. A gravel pack of washed silica sand (20/30) will be installed in the annulus below, around, and to a minimum of 2 feet above the well screen. An approximately 2-foot thick cap of fine silica sand will be installed on top of the gravel pack. The remaining annulus will be cemented from the top of the sand cap to the surface with neat cement. Each well will be capped with a 2-inch vented PVC cap and protected by a steel casing with a locking steel cover. Each well will be developed until free of sand and then disinfected (Figure 2). The wells will be serviced in as to location and elevation relative to National Geodetic Vertical Data (N.G.V.D.) by a licensed registered land surveyor.

Upon completion of construction of the Groundwater Monitoring System, the following information shall be submitted to the Department of Environmental Regulation for all groundwater monitoring wells constructed:

DRAFT

Well Identification	Driller's Log
Latitude/Longitude	Total Depth of Well
Aquifer Monitored	Casing Diameter
Screen Type and Slot Size	Casing Type and Length
Screen Length	Direction of Groundwater Flow in Screened Zone
Elevation at Top of Pipe	Well Construction Permit Numbers
Elevation at Land Surface	Site Map Showing Well Location
Elevation of Top and Bottom of Collection Zone (Screen)	

2.3 Sampling Methods

Sampling will be conducted by Broward Testing Laboratory Inc., a FDER certified laboratory. The sampling methods used shall be in accordance with the FDER procedures as outlined in the Broward Testing Laboratory FDER approved quality assurance handbook. Sampling and analysis will be for:

a. Priority pollutant metals;
b. Priority pollutant organic chemicals using EPA methods 624 and 625;
c. All organic chemcials with peaks greater than five micrograms per liter (ug/l) using EPA methods 624 and 625;
d. Pesticides.

The monitor wells shall be sampled with thirty days of installation but additional sample(s) may be required based upon the results or trends of the analyses. Also, water levels (ft. msl) will be reported on the form.

Water levels (ft. msl) shall be recorded during the first week of each month for the canal adjacent to the transfer site and for all monitor wells. A copy of the water table log will be submitted to the Department of Environmental Regulation.

DRAFT

Samples from the monitor wells shall be taken after a minimum of 3 to 5 well volumes of water have been removed and pH and specific conductance measurements have stabilized. Water samples must be drawn from the aquifer since water which has been stationary and exposed to the atmosphere in the casing will not have the same chemistry as that in the aquifer.

Sampling equipment analytical methods, and detection limits will be as specified in the Broward Testing Laboratory FDER Quality Assurance Handbook. Any violations of FAC 17-3 will be reported.

3.0 SURFACE WATER MONITORING

Four surface water samples shall be taken from the canal: one adjacent to the transfer site; one upgradient of the transfer station; one downgradient of the transfer station and one from the canal on the opposite side of the Sawgrass Expressway. Surface water sampling will occur at the same time as sampling is performed on the monitoring wells. Water quality from the canal will be compared to regional water quality from canals in Broward County. The sample will be taken in accordance with the FDER Procedures and using the FDER approved equipment and methods. Sampling and analysis will be by the same laboratory as noted under item 2.3 above.

4.0 TIME SCHEDULE

The monitoring wells will be in place within thirty days of the FDER approval of this PCAP. Water quality monitoring will be completed within 60 days and a Preliminary Contamination Assessment Report written within 90 days of PCAP approval.

DRAFT

FILE

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHEAST FLORIDA DISTRICT
1900 SOUTH CONGRESS AVENUE
WEST PALM BEACH, FLORIDA 33406

BOB MARTINEZ
GOVERNOR
DALE TWACHTMANN
SECRETARY
J. SCOTT BENYON
DISTRICT MANAGER

DRAFT

May 29, 1987

J. W. Stevens, City Manager
City of Parkland
6500 Parkside Drive
Parkland, Florida
33067

SW - Broward County
Coral Ridge
Properties, Inc.

Dear Mr. Stevens:

Ref: Coral Ridge Properties, Inc.
South 1203.91 feet of the North 1/2 of
Section 6, Township 48 S, Range 41 East
containing 128.546 acres;
Broward County

Sub: Construction and Demolition Debris Activities

An unannounced inspection was conducted by members of my staff on May 28 concerning the above as referenced in your May 12 letter. At this time, my staff reported that public access from the east along Holmberg Road to this property was barricaded and that the only viable access was from Coral Ridge Drive north of the Sawgrass Expressway. This access road had a locked gate and was manned by personnel from Coral Ridge Properties, Inc. Visual observations of this site revealed the disposal of approximately five percent (5%) tree stumps and ninety-five percent (95%) muck and rock to approximately twenty-five feet (25') above natural grade. This waste material is defined as " Construction and Demolition Debris " pursuant to Section 17-7.020(14), Florida Administrative Code (FAC). This waste material is considered to be generally a non-hazardous material and not water soluble. In fact, Section 17-7.030(1)(a)3, F.A.C. states in part that ... " no permit under this section shall be required for solid waste disposal areas limited to the disposal of construction and demolition debris. " Therefore, no permit is required for this activity.

It is apparent, that the property owners are making a good faith effort to restrict access for their own vehicles by the aforementioned use of barricades and the manned locked gate. In addition, the land owners have placed a large roll-off container for the disposal of inadvertent solid wastes that could possibly be disposed of adjacent to or on their property. An observation of this roll-off container on top of the stockpiled muck revealed pieces of metal, trash and garbage inside of it.

Another inspection was conducted at the land clearing site in Eagle Trace Development which revealed that Coral Ridge Properties, Inc. was indeed removing muck, rock and tree stumps by dump trucks to the disposal site in question. Vegetation at this development is being destroyed with a hydro-axe which reduces the volume of vegetative matter approximately ninety-nine percent (99%) prior to disposal at the site. Although Coral Ridge Properties, Inc. is presently in compliance with solid waste regulations, the Department will be conducting a non-binding jurisdictional determination of the disposal site in the near future for the purpose of determining dredge and fill jurisdiction in any wetland areas. We will advise you of the results after this determination has been completed.

Should you have any questions concerning this matter, please contact Mr. Joe Lurix at telephone number 305/ 964-9668.

Sincerely,

J. Scott Benyon

J. Scott Benyon
District Manager

JSB/jl

cc: Austin White, Esquire, Coral Ridge Properties, Inc.
Michael Vanatta, Coral Ridge Properties, Inc.
Larry O'Donnell, West Palm Beach Office
B.C.E.Q.C.B.

DRAFT


DRAFT

DATE: 5/28/87

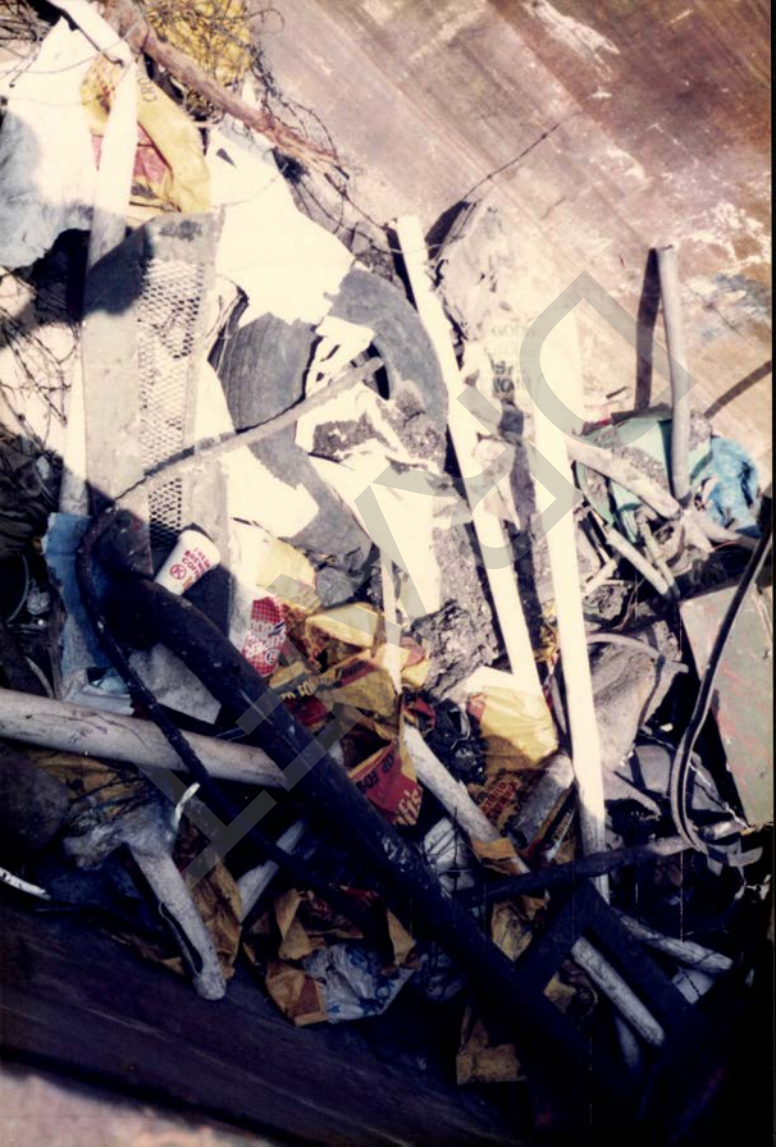
SUBJECT: CORAL RIDGE MUCK PILE, CITY OF PORKLAND

DATE:

SUBJECT:

DRAFT







MW → PW → TC
PAW 6/3/87

OFFICE OF THE CITY ATTORNEY
CITY OF CORAL SPRINGS FLORIDA

9551 WEST SAMPLE ROAD
P.O. BOX 754501
CORAL SPRINGS, FL 33075-4501
TELEPHONE (305) 344-1010

RECEIVED
'87 JUN 2 PM 1 55
FLA. DEPARTMENT OF
ENVIRONMENTAL REG.

May 28, 1987

Mr. Tom Cozze
Southeast Florida District
State of Florida Department of Environmental Regulation
1900 South Congress Avenue, Suite A
West Palm Beach, Florida 33406

Re: State of Florida Department of Environmental Regulation vs. City of Coral Springs and Coral Ridge Properties, Inc., OGC Case No. 87-0269.

Dear Mr. Cozze:

We appreciate having had the opportunity to meet with you on Wednesday, May 20, 1987, with regard to the above mentioned matter. As a result of the meeting last week it is my understanding that the Informal Conference has been extended for ten (10) business days in order for the City to implement an interim plan for the Waste Transfer site, during which time the City is constructing a new facility which will meet all of the requirements of the Florida Department of Environmental Regulation.

As of this date (May 28, 1987), the City of Coral Springs has implemented the policy outlined in Exhibit "A" attached hereto and made a part hereof. The site has been completely cleared of all debris and a significant number of new 15 and 30 cu. yd. containers added to the site. Essentially this interim policy is as follows:

1. City Vehicles - Waste Management will provide 30 cu. yd. containers for use by City employees. All refuse will be off-loaded from City vehicles directly into the containers. No refuse will be permitted to touch the ground.

2. Residents - Waste Management will provide between six (6) and eight (8) 15 cu. yd. containers for use by residents. Residents will be required to off-load material directly from vehicles into these containers.

DRAFT

The interim hours of operaton will be 8:30 a.m. to 5:00 p.m. seven (7) days per week. Two attendants will be on duty at all times. One attendant will direct traffic, verify residency, and assure conformance with acceptable disposal procedures. The second attendant will operate a front-end loader and assist residents with moving large items from their vehicles directly into the front-end loader and then into the containers.

If for some reason all containers at the transfer station are full the site will be immediately closed and persons turned away will be given a map having instructions as to how to get to the public landfill in Pompano Beach (see Exhibit "B" attached hereto and made a part hereof).

In addition, a memorandum attached hereto as Exhibit "C" has been distributed to all department heads indicating that the new City policy as outlined above became effective as of 8:00 a.m. Thursday, May 28, 1987 and will remain in full force and effect until such time as the new Waste Transfer Station is complete and operational.

We are also enclosing with this letter the sealed final plans for the construction of the new Waste Transfer Station for the residents of the City and the site for City use only. As we had previously indicated to you at the meeting last week we anticipate construction to be completed on the new sites not later than ninety (90) days from May 20, 1987.

We have contacted our consulting engineers, Camp, Dresser and McKee, Inc. (C.D.M.) regarding the contamination tests which your department requires to be performed. A meeting was held with the City Administration and C.D.M. to discuss this matter on Friday, May 22, 1987 and on several subsequent occasions. Attached hereto as Exhibit "D" is a proposed Preliminary Contamination Assessment Plan which C.D.M. has prepared for us. Upon your approval of the plan this PCAP will be implemented by the City.

At this time we are requesting your department to approve the plans we are submitting to you as an acceptable interim plan. We would also request that the informal hearing be continued for ninety (90) days during which time we further request you to draft a Consent Agreement to be executed by the City of Coral Springs, Florida National Properties, Inc., and Florida Department of Environmental Regulation. We acknowledge the

penalty and costs which you have arrived at in the respective amounts of $4,680.00 (Penalty) and $500.00 (Costs) for a total of $5,180.00. To show our good faith in attempting to resolve this matter the City is willing to pay these penalty and costs, unless after further consideration you feel a lesser amount could be assessed against the City.

We appreciate your favorable consideration of our interim plan of action and our permanent plans for the new transfer station. If there is any further information that you need from us please do not hesitate to contact Mr. Donald H. Swets, P.E. at 344-1165, or myself.

Sincerely,

Martin J. Hanna

Martin J. Hanna
Assistant City Attorney

MJH/mkp

cc: William N. Brady, City Manager
Donald H. Swets, P.E., Dir. of Public Works
Paul J. McDonough, City Attorney

DRAFT

EXHIBIT "A"

INTERIM OPERATION PLAN
CORAL SPRINGS WASTE TRANSFER STATION

RECEIVED
JUN 2 1987

1. GENERAL - The City Waste Transfer Station (WTS) has always operated by first allowing refuse to be deposited on the ground daily, and loading it on Monday through Friday into 30 cu. yd. rolloff containers using a front end loader. Every effort was made to have all refuse off the ground by close of business Friday, so that no refuse remained on the ground more than seven days. This method of operation was found by the Florida Department of Environmental Regulation to be a violation of Florida statutes, and a Notice of Violation was issued to the City on April 13, 1987. The City has formulated a permanent solution to handling of the refuse using a combination of ramps and compactors, but actions must be taken during the interim period of 60 to 90 days required for implementation of that plan which will assure a conforming operation. This interim Operation Plan outlines procedures to be followed during this period.

2. CITY VEHICLES - Coordination has been made with the refuse franchise holder to provide 30 cu. yd. containers for use by City employees. Instructions have been issued to all employees, requiring all refuse to be off-loaded from City vehicles directly into the 30 cu. yd. containers. The absolute necessity of keeping all refuse off the ground has been stressed.

3. RESIDENTS - Coordination has been made with the refuse franchise holder to provide a number of 15 cu. yd. rolloff containers for use by residents. These containers have a side height of approximately 4 feet. Residents will be required to off load material directly from vehicles into these containers.

4. HOURS OF OPERATION - It is presently planned to continue the present service time of 8:30 a.m. to 5:00 p.m. to minimize the incidence of illegal dumping.

5. ATTENDANCE - As with the current operation, a full-time attendant will be at the WTS to direct traffic, verify residency, and assure conformance with acceptable disposal procedures.

6. EQUIPMENT - A City front end loader with operator will be at the WTS during hours of operation. The loader will be used for transfer of occasional overweight items directly from vehicles of residents into rolloff containers, and to immediately remove any refuse which may be inadvertantly deposited on the ground. When not operating the loader, the operator will assist the attendant in directing traffic and assuring conformance with prescribed disposal procedures.

DRAFT

7. CONTINGENCY - The refuse franchise holder has agreed to take exceptional care to have empty containers available during hours of operation. However, in the event that all containers are filled and no space is available, the WTS will be closed until containers are made available. Persons who are turned away in such a contingency will be provided a map giving directions to the public landfill in Pompano Beach.

8. VOLUME REDUCTION

(A.) News media will be used to urge residents to make maximum use of curbside disposal which is unlimited when placed in approved containers or prescribed bundle size.

(B.) A chipper may be operated at the WTS for use by City forces. Tree trimmings will be handled directly form City vehicles to the chipper, and blown into a rolloff container for disposal.

DRAFT

EXHIBIT "B"

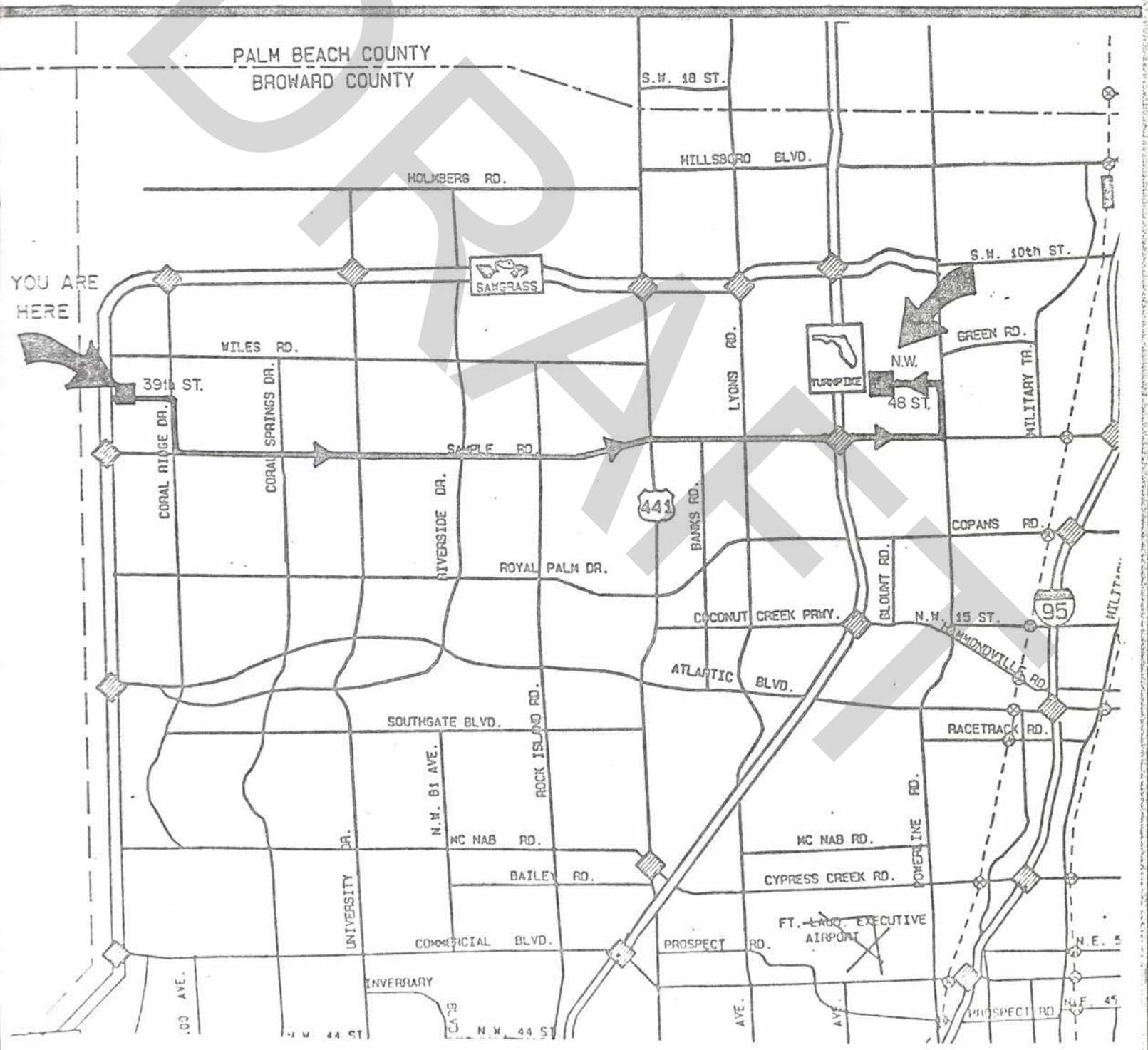
PLEASE BEAR WITH US:

WE ARE IN THE PROCESS OF CONSTRUCTING NEW FACILITIES WHICH WILL MEET FLORIDA STATUTES GOVERNING WASTE TRANSFER STATIONS. FOR NOW, WE ARE OPERATING WITH LIMITED FACILITIES, BUT ALL REFUSE MUST BE KEPT OFF THE GROUND. OUR CONTAINERS ARE PRESENTLY FULL, AND WE HAVE REQUESTED MORE FROM OUR REFUSE FRANCHISE HOLDER.

RECEIVED

YOU CAN EITHER RETURN LATER, OR TAKE YOUR REFUSE TO THE PUBLIC LANDFILL AT POMPANO BEACH, LOCATED AT 2700 N. W. 48TH STREET. THEIR OPERATING HOURS ARE:

MONDAY THRU FRIDAY: 5:00 A.M. to 8:00 P.M.
SATURDAY: 5:00 A.M. to 6:00 P.M.
SUNDAY: 5:00 A.M. to 12:00 NOON



DRAFT

EXHIBIT "C"

City of Coral Springs
INTEROFFICE MEMORANDUM
8705-1112

TO: ALL DEPARTMENT HEADS

RECEIVED
'87 JUN 2 PM 1 56
FLA. DEPARTMENT OF ENVIRONMENTAL REG. WEST PALM BEACH

FROM: DONALD H. SWETS, P.E., DIR., PUBLIC WORKS

SUBJECT: REVISED OPERATION OF THE CORAL SPRINGS WASTE TRANSFER STATION

DATE: MAY 26, 1987

The City of Coral Springs was recently given a Notice of Violation by the Florida Department of Environmental Regulation concerning the Waste Transfer Station. The violation resulted from the practice of first depositing the waste material on the ground and then loading it into roll off containers.

The City must establish procedures to keep all waste off the ground in order to continue this vital service to City Departments and City Residents during the interim while a conforming transfer station is constructed.

Beginning Thursday, May 28, 1987, no waste will be deposited on the ground. City crews will be required to off load waste from City vehicles directly into containers provided at the Transfer Station. Containers of the 30 cubic yard size will be provided for that purpose. Residents will be required to off-load their waste directly into 15 cubic yard containers provided for that purpose, though residents with pickup trucks may be required to use the 30 cubic yard containers.

The new procedures must be followed explicitly and will be monitored closely. Failure to follow these procedures can result in complete shutdown of the transfer station. Your strong support and the full cooperation of all your employees is requested in this matter. Please see that each employee who uses the Transfer Station is made aware of these procedures and the consequences to the City if they are not followed. Thanks for your assistance.

DHS/jrr

DRAFT

PAW 6/30/17

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

Interoffice Memorandum

FOR ROUTING TO OTHER THAN THE ADDRESSEE

To: _____ Loctn: _____
To: _____ Loctn: _____
To: _____ Loctn: _____
From: _____ Date: _____

TO: Tom Cozzie/Paul Wierzbicki

FROM: Patrick G. Smith, Groundwater Permitting

DATE: June 29, 1987

SUBJECT: Review of PCAP for Coral Springs Transfer Station

The PCAP submitted by the City of Coral Springs should adequately determine the presence or absence of contamination due to the transfer station activities.

PS:my

DRAFT

EXHIBIT "D"

RECEIVED
'87 JUN 2 PM 1 56
FLA. DEPARTMENT OF
ENVIRONMENTAL REG.

PRELIMINARY CONTAMINATION ASSESSMENT PLAN

CITY OF CORAL SPRINGS WASTE TRANSFER STATION, OGC
CASE NO. 87-0289

DRAFT

Prepared By:

Camp Dresser & McKee Inc.
Fort Lauderdale, Florida

PRELIMINARY CONTAMINATION ASSESSMENT PLAN

CITY OF CORAL SPRINGS WASTE TRANSFER STATION, OGC
CASE NO. 87-0289

This Preliminary Contamination Assessment Plan (PCAP) is being prepared and submitted in response to the Notice of Violation and Orders for Corrective Action filed by the Florida Department of Environmental Regulation (FDER) against the City of Coral Springs, Florida Case No. 87-0289, for activities related to the City's solid waste transfer station. In accordance with the Notice of Violation this PCAP includes a description of tasks to be performed and a schedule for completion.

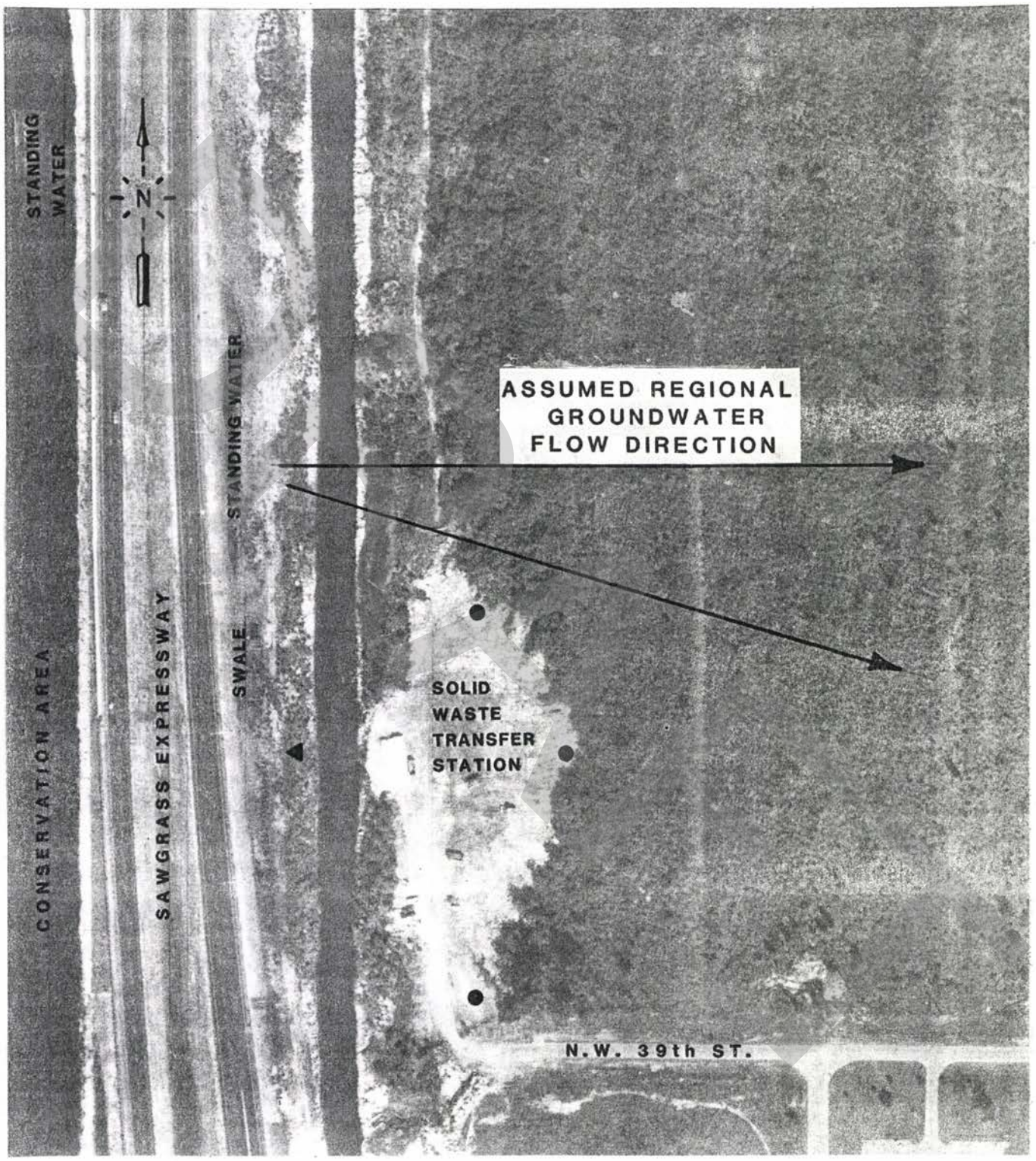
1.0 BACKGROUND

The City of Coral Springs began operating the solid waste transfer station in early 1975. The site is located adjacent to the Sawgrass Expressway and north of Northwest 39th Street, and is accessed via Northwest 39th Street (Figure 1).

The transfer station, during its entire use, has been open only to trash such as yard trimmings, construction materials, old furniture and discarded appliances, and the like. The site has always been manned by a responsible city employee whose job it is to check incoming trash for household garbage or any kind of hazardous materials. City officials have stated that the latter materials have never been allowed to be deposited at the site. In 1985, during the construction of the Sawgrass Expressway, a canal was dug along the western portion of the site, reducing its size.

The site has been operated solely as a transfer station for trash. From the time the City began its operation, the materials brought in were allowed to remain on the ground no longer than 14 days and in most cases were cleared within 10 days. The materials were then picked up by a front end loader and placed in 30 yard containers which were hauled to the

Figure 1



CRLSPRGS.WRG
5/28/87

Central Disposal landfill by a local firm, Southern Sanitation. The same process continued until 1986, when the Broward County Environmental Quality Control Board (EQCB) requested that the City not allow newly deposited trash to remain on the ground longer than seven days. The City complied with that request and has maintained the seven day schedule ever since.

There has been and is to date no evidence of contamination at the solid waste transfer site. Due to the short time period that a given article or deposit of trash remained on the site, and the fact that incoming trash was inspected and potentially harmful substances refused entry (i.e. no long term point source pollution) there is no source for the continued generation of leachate at this site. It seems unlikely that significant contamination will be found to exist.

The City has initiated a program whereby all future trash brought to the site will be placed in 30 yard containers. This practice will continue until the new transfer station is constructed in accordance with the FDER criteria on a site just south of Northwest 39th Street.

2.0 THE PLAN

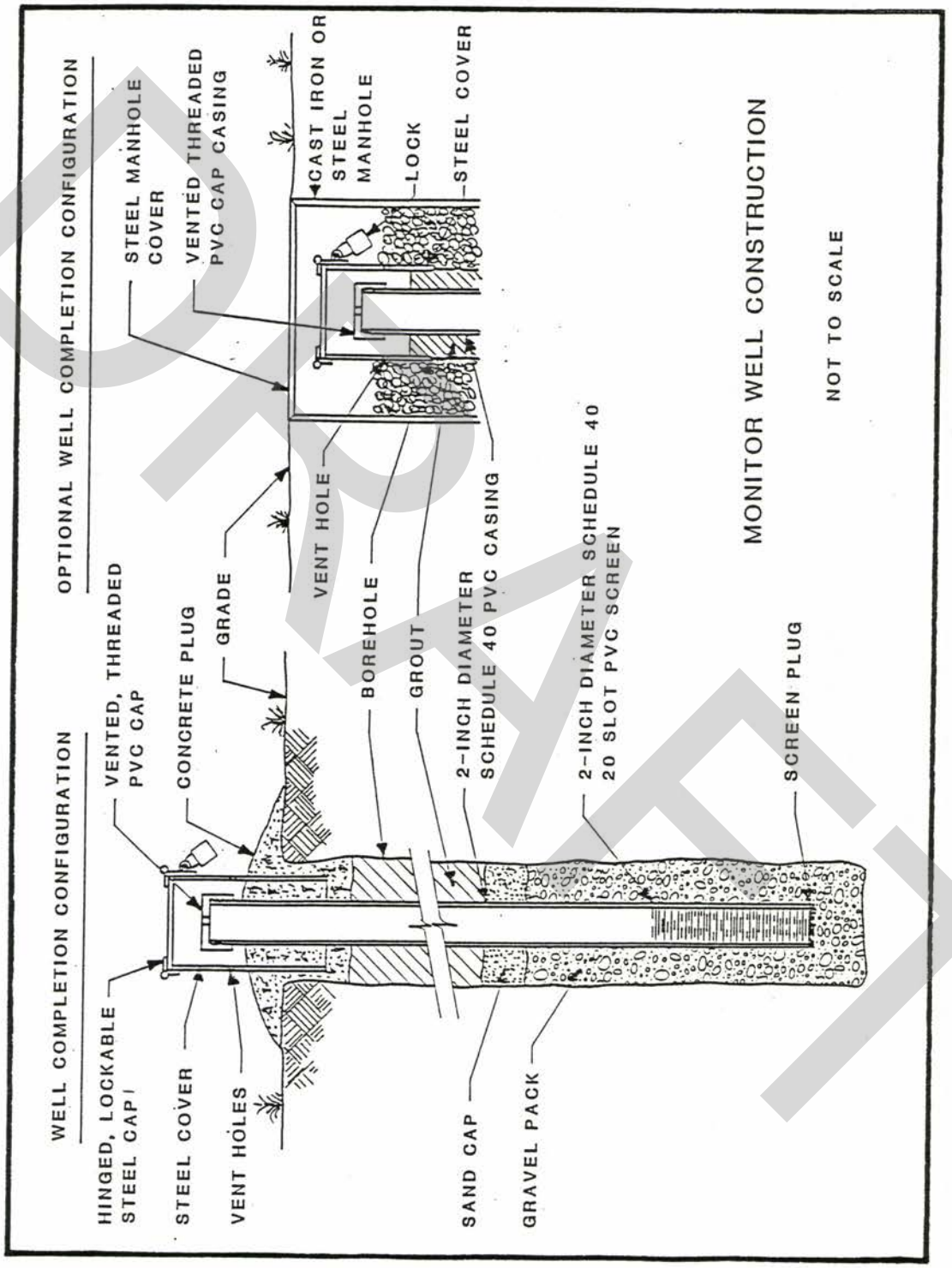
The plan for the City of Coral Springs transfer station site includes monitoring of groundwater and monitoring surface water in the canal adjacent to the site. Based upon the results of the analyses, further activities could be initiated, if they are warranted.

2.1 Groundwater Monitoring

Groundwater monitoring will be initiated at four locations around the site (Figure 2). The consideration of existing data and of the fact that trash delivered stayed no longer than fourteen days on site, virtually eliminated the possibility of any long term contamination or leaching from a single source (i.e. a leaking barrel) had such been allowed on site. Therefore CDM proposes that shallow wells, intersecting the water table, screened to

DRAFT

Figure 2



DRAFT

CRLSPRGS.WRG
5/28/87

a depth of 15 feet be used. If water quality analysis from these wells indicate that contamination exists, further monitoring at greater depths and to locate the extent of contamination would be initiated as the data would indicate.

2.2 Monitor Well Construction

Monitor wells will be constructed so that the well screen will be below the seasonal low water table level. Shallow wells will be constructed using 5- or 10-feet lengths of new, 2-inch nominal diameter, flush joint, square-threaded, schedule 40, PVC pipe (Figure 2). The borehole will be drilled to provide a minimum of a 2-inch annulus. The well screens will be 10-foot lengths of 2-inch nominal diameter, mill slotted, 10 slot (0.010 inch) PVC pipe closed at the bottom with a plug. No PVC cement will be used in the construction of the monitor wells. A gravel pack of washed silica sand (20/30) will be installed in the annulus below, around, and to a minimum of 2 feet above the well screen. An approximately 2-foot thick cap of fine silica sand will be installed on top of the gravel pack. The remaining annulus will be cemented from the top of the sand cap to the surface with neat cement. Each well will be capped with a 2-inch vented PVC cap and protected by a steel casing with a locking steel cover. Each well will be developed until free of sand and then disinfected (Figure 2). The wells will be serviced in as to location and elevation relative to National Geodetic Vertical Data (N.G.V.D.) by a licensed registered land surveyor.

Upon completion of construction of the Groundwater Monitoring System, the following information shall be submitted to the Department of Environmental Regulation for all groundwater monitoring wells constructed:

DRAFT

Well Identification	Driller's Log
Latitude/Longitude	Total Depth of Well
Aquifer Monitored	Casing Diameter
Screen Type and Slot Size	Casing Type and Length
Screen Length	Direction of Groundwater Flow in Screened Zone
Elevation at Top of Pipe	Well Construction Permit Numbers
Elevation at Land Surface	Site Map Showing Well Location
Elevation of Top and Bottom of Collection Zone (Screen)	

2.3 Sampling Methods

Sampling will be conducted by Broward Testing Laboratory Inc., a FDER certified laboratory. The sampling methods used shall be in accordance with the FDER procedures as outlined in the Broward Testing Laboratory FDER approved quality assurance handbook. Sampling and analysis will be for:

a. Priority pollutant metals;
b. Priority pollutant organic chemicals using EPA methods 624 and 625;
c. All organic chemcials with peaks greater than five micrograms per liter (ug/l) using EPA methods 624 and 625;
d. Pesticides.

The monitor wells shall be sampled with thirty days of installation but additional sample(s) may be required based upon the results or trends of the analyses. Also, water levels (ft. msl) will be reported on the form.

Water levels (ft. msl) shall be recorded during the first week of each month for the canal adjacent to the transfer site and for all monitor wells. A copy of the water table log will be submitted to the Department of Environmental Regulation.

DRAFT

Samples from the monitor wells shall be taken after a minimum of 3 to 5 well volumes of water have been removed and pH and specific conductance measurements have stabilized. Water samples must be drawn from the aquifer since water which has been stationary and exposed to the atmosphere in the casing will not have the same chemistry as that in the aquifer.

Sampling equipment analytical methods, and detection limits will be as specified in the Broward Testing Laboratory FDER Quality Assurance Handbook. Any violations of FAC 17-3 will be reported.

3.0 SURFACE WATER MONITORING

Four surface water samples shall be taken from the canal: one adjacent to the transfer site; one upgradient of the transfer station; one downgradient of the transfer station and one from the canal on the opposite side of the Sawgrass Expressway. Surface water sampling will occur at the same time as sampling is performed on the monitoring wells. Water quality from the canal will be compared to regional water quality from canals in Broward County. The sample will be taken in accordance with the FDER Procedures and using the FDER approved equipment and methods. Sampling and analysis will be by the same laboratory as noted under item 2.3 above.

4.0 TIME SCHEDULE

The monitoring wells will be in place within thirty days of the FDER approval of this PCAP. Water quality monitoring will be completed within 60 days and a Preliminary Contamination Assessment Report written within 90 days of PCAP approval.

DRAFT

MW → PW → TC
part of 1113

Coral Ridge

RECEIVED
MAY 27 1987
Dept. of Environmental Reg.
West Palm Beach

CORAL RIDGE PROPERTIES, INC. / 3300 UNIVERSITY DRIVE / CORAL SPRINGS, FLORIDA 33065 / AREA CODE 305-752-1100

May 26, 1987

Mr. Tom Cozze
Southeast Florida District
State of Florida Department of Environmental Regulation
1900 South Congress Avenue, Suite A
West Palm Beach, Florida 33406

Re: State of Florida Department of Environmental Regulation vs.
City of Coral Springs and Coral Ridge Properties, Inc.
OGC Case No. 87-0269

Dear Mr. Cozze:

Please be advised that Coral Ridge Properties, Inc. is agreeable to a ten (10) day extension of time during which Coral Ridge Properties, Inc., the City of Coral Springs, and the Department of Environmental Regulation may arrive at a resolution of the above-referenced matter through informal proceedings. As we discussed during the Informal Conference, Coral Ridge Properties will grant the City an extension of the lease agreement, in order that the City can undertake to completion whatever remedial measures the Department deems necessary for the clean-up of the existing Waste Transfer Station site, which is located on property owned by the Company and leased to the City.

Additionally, Coral Ridge Properties has agreed to convey approximately 0.579 acres of land to the City for the location of a new Waste Transfer Station site to be operated by the City to serve the City of Coral Springs, with the concurrence and approval of the Department.

I trust that you will notify me regarding the time and date of the next conference between and among the City of Coral Springs, Coral Ridge Properties, and the Department.

If you have any questions concerning any of the representations herein, please feel free to contact me.

Sincerely,

E. Austin White
Attorney

cc: Martin Hanna, Esquire
Roger Dyess

DRAFT

City of Parkland
6500 Parkside Drive
Parkland, Florida 33067
(305) 753-5040

RECEIVED
MAY 15 1987
Dept. of Environmental Reg.
West Palm Beach

May 12, 1987

Mr. Scott Denyon
State Department of Environmental
Regulation
District Manager Director
1900 South Congress
West Palm Beach, Florida 33409

Dear Mr. Denyon:

In response to our telephone converation on May 11, 1987, with Mr. Lurix, reference to Coral Ridge Property Land Disturbance (permit for a landfill) in the City of Parkland located as described: The South 1203.91 feet of the North 1/2 of Section 6, Township 48S, Range 41 East lying and being in Broward Coutny, Florida, and containing 128.546 acres.

The City Commission at its regular meeting on May 6, 1987, question the use of the Land Disturbance (landfill). Does the landfill meet the pollution criteria set forth by the Department of Environmental Regulation? Does this Land Disturbance (landfill) need a permit from your Department? The City of Parkland requests a letter (report) on the Department's findings.

If you need further assistance, please call.

Sincerely,

J.W. "Bill" Stevens
City Manager

cc: Joe Lurix

DER-WPB		Copy ✓ Action A	Route # C-T		
DM	GB	PER		CADE	
ADM		ENF		BROW	
PSL		T/A		PBCH	
AA		WM/SP		SFWMD	

REMARKS:
(A) Don W - response for my signature
by 5/29/87

Don:
I spoke to Scott →
and got this
changed to 5/29/87
Joe is planning to check
it out on 5/28/87
VK
5/22

DRAFT

INTEROFFICE MEMORANDUM
8705-1204

TO: WILLIAM N. BRADY, CITY MANAGER

FROM: DONALD H. SWETS, P.E., DIR. OF PUBLIC WORKS

SUBJECT: MODIFICATION OF WASTE TRANSFER STATION OPERATIONS AND REVISION OF FRANCHISE AGREEMENT WITH ACE REFUSE SERVICE, INC. AND SOUTHERN SANITATION SERVICE (WASTE MANAGEMENT, INC.)

DATE: May 11, 1987

COMMISSION MEETING OF MAY 19, 1987, AGENDA ITEM NO. 8c

RECEIVED
MAY 20 1987
Dept. of Environmental Reg.
West Palm Beach

DRAFT

DESCRIPTION/BACKGROUND

The City of Coral Springs on May 16, 1978, entered into a Franchise Agreement with Ace Refuse Service, Inc. and Southern Sanitation Service, being a wholly-owned subsidiary and a division respectively of Waste Management, Inc., for the provision of solid waste collection service within our municipal boundaries. This five-year Franchise Agreement has been modified from time to time by mutual consent, including the five-year extension thereof to May 16, 1988.

Article 16 of the Franchise Agreement addresses the Transfer Station operation of the City, and was amended by Ordinance 80-121 and Ordinance 81-129. The transfer station operation was also modified by Resolution 83-107 to prohibit commercial usage and limit its use to City residents.

Over the past several weeks, we have had discussions with Waste Management, Inc. officials with respect to a mutually advantageous method for operation of a waste transfer facility which would comply with the Florida Department of Environmental Regulation (FDER) requirements, limit the City's cost exposure, maintain a level of service to our citizens, and enhance the efficiency of the contractor's operations.

In the attached May 4, 1987 letter to you from Mr. Edwin J. Johnson, General Manager of Southern Sanitation Service, an alternative to the present operation of our Waste Transfer Station has been proposed, which would appear to achieve the aforementioned goals. Although this would reduce the availability of the transfer station from a seven day to a weekend operation (Saturday and Sunday only), it would be coupled with a broadening of the scope of the residential services to include large items of furniture and household appliances.

Also attached hereto is a copy of my May 7, 1987 memo to you on the Waste Transfer Station Operations which presents statistics on the volume of materials handled and the costs associated with this operation.

The proposal from Waste Management would entail the development of the end of 39th Street and 127th Avenue as a site for the weekend residential transfer station operation. The muck piled on this road right-of-way will have to be removed, an area fenced, and a turn around constructed at the west end of 39th Street. Waste Management would install compactors at this location which they would operate.

"COPY PROVIDED CITY COMMISSION ON 5-14-87"

A separate facility for solid waste disposal from municipal operations would be needed. A ramp to permit dumping into 30 cu. yd. containers is planned to be located at the south end of the booster pumping station site. This central location will serve both Public Works and Parks & Recreation Departments. The development of the new facilities would be funded in large part by the $100,000 Capital Outlay budget item for the transfer station. The necessity for land acquisition, and for the estimated $160,000 transfer station would be eliminated.

Operationally, the proposed arrangement would reduce our costs, as we would not be manning a station seven days per week. Our disposal costs would be capped at 800 equivalent 30 cu. yd. loads per year, which at current rates amounts to a maximum of $123,600, which compares favorably with the current 86-87 budget figure for this 5522 - Sanitation operation of $168,992. This would also free-up the front-end loader and its operator for other uses rather than being primarily used in the transfer station operation. It is anticipated that the requisite facilities to implement this program can be operational within 90 days after approval.

APPROVED BY CITY COMMISSION AT THE MEETING OF 6-19-87

RECOMMENDATION:

It is recommended that the May 4, 1987 proposal from Waste Management be accepted, and the City Attorney be authorized to prepare the appropriate Ordinance for consideration by the City Commisssion at their June 2, 1987 meeting to amend the Franchise Agreement, and modify the waste transfer operations accordingly.

ATTACHMENTS

May 4, 1987 Letter from Waste Management
May 7, 1987 Memo regarding Transfer Station Operations

DHS/WV

cc: Jonda K. Joseph
Marty Hanna
Bob Glenn
Dick Carlson
Noel J. Chin

DRAFT

RFC 17 (12)

Southern Sanitation Service
a division of Waste Management, Inc. of Florida
2700 N. W. 48th Street • Pompano Beach, Florida 33067 • (305) 974-7500

May 4, 1987

William N. Brady, City Manager
City of Coral Springs
9551 West Sample Road
Coral Springs, Florida 33065

Dear Mr. Brady:

We are pleased to propose to you an alternative to the present operation of the City of Coral Springs Waste Transfer Station. To implement this alternative, paragraph 16 of the Franchise Agreement, as amended, would be replaced in its entirety by the new paragraph 16, attached hereto.

The proposal preserves the handling of all solid wastes generated by City operations at no cost to the City. A centrally located site for City vehicles only is envisioned, which would be separate from the site to be used to service City of Coral Springs residents. This differs from the present operation, where both City vehicles and the resident's vehicles are served at the same location.

While this proposal will reduce the total hours of operation for residential service, we believe that it maintains the expected high level of service to the City of Coral Springs and its citizens. To assure that no degree of service is lost, in addition to the present curbside pickup of unlimited quantities of garbage and/or trash in approved containers, we would also pickup at curbside from customers, large items of furniture and household appliances.

We feel that this alternative would be advantageous to both the City and to our company. Since we would man and operate the facility serving residents, the City would no longer have the expense associated with attendents and loading equipment used by the present Transfer Station. Our proposed limit on the total number of containers to be billed protects the City by capping costs near a level based on 1986 waste volume hauled.

The benefits to our company would be from expanded curbside pickup which we are already equipped to handle, and from a reduced number of haul trips resulting from the use of on-site compactors at the resident service site.

"COPY PROVIDED CITY COMMISSION ON 5-14-87"

DRAFT

We trust that the City, in considering this proposal, will find it attractive in terms of both manpower and dollar savings. We look forward to an early favorable response to the proposal.

Sincerely,

Edwin J. Johnson
General Manager

Attachment

EJJ/skt

DRAFT

16. TRANSFER SYSTEM

a. The CONTRACTOR shall provide for the Solid Waste Disposal needs of the Coral Springs City municipal operations, by providing rolloff containerized service at a central location to be prepared by the CITY. Empty containers shall be made available at all times to allow continuous disposal by CITY municipal elements. This service shall be provided free of charge to the CITY.

b. The CONTRACTOR shall provide containerized rolloff service for residents of the CITY, located at the intersection of the 127th Avenue and 39th Street in the Park of Industry. The site shall be operated and manned by CONTRACTOR Personnel, and will receive waste from CITY of Coral Springs residents, upon showing valid proof of residency, between the hours of 8:00 a.m. to 5:00 p.m. each Saturday and Sunday. Waste will be accepted only from cars, vans, and pickup trucks. Empty containers will be available at all times to allow continuous disposal during hours of of operation. Provisions will be made to accept all items generated in and around the homes of residents, except garbage, hazardous waste, body waste, dead animals, and abandoned vehicles. The CONTRACTOR may use 15 cy or 30 cy containers, or 40 cy compactor containers. Cost of installation and operation of compactors shall be the responsibility of the CONTRACTOR. CONTRACTOR personnel shall be responsible for removing all containers and cleaning the area within the fenced enclosure no later than the Monday following the weekend collection, and for pickup and removal of any litter which is deposited on the right-of-way of 39th Street, west of 126th Avenue, during the hours of operation. The CITY will be billed by the CONTRACTOR at the current Franchise Agreement rate of $154.50 per full 30 cy container, or equivalent, for waste collected at this location, up to a maximum of 800 each 30 cy container equivalents per 365 day period or for a prorated number for any shorter time period. For purposes of this limit, and payment to the CONTRACTOR, one 30 cy container is equal to two (2) 15 cy containers, and one 40 cy compactor container is equal to two (2) 30 cy containers.

c. Revised operation as described herein shall begin as soon as the agreement is approved and the requisite facilities are prepared. The CONTRACTOR shall be responsible for obtaining, at his own expense, any permits required for siting and operation.

City of Coral Springs
INTEROFFICE MEMORANDUM
8705-1106

TO: WILLIAM N. BRADY, CITY MANAGER

FROM: DONALD H. SWETS, P.E., DIR. OF PUBLIC WORKS

SUBJECT: WASTE TRANSFER STATION OPERATIONS

DATE: MAY 7, 1987

DRAFT

The City has operated a waste transfer station to receive solid wastes from our municipal operations, and also from our residents, for many years. As our City has grown, and its foliage has matured, the volume of solid wastes handled at the waste transfer station has increased.

Prior to October, 1983, a nominal charge was made for disposal. Resolution 83-107 prohibited the commercial usage of the waste transfer station, restricted its use to residents, and removed the charge. The following tabulation of cubic yardage handled at the transfer station for the last seven and a half fiscal years shows the growth, and the impact of the Oct. 1, 1983 change in policy.

FY	CU. YDS	FY	CU.YDS
79-80	17,160	83-84	41,940
80-81	41,010	84-85	52,470
81-82	69,390	85-86	44,100
82-83	76,410	86-87(1/2)	18,810

The attached monthly tabulation of waste transfer station activity is also informative, as it shows the increase in FY 84-85, attributable in large part to the January 21, 1985 freeze we experienced, and the subsequent dead foliage increase.

The current operation of the waste transfer station allows materials brought in by our residents to be deposited temporarily on the ground prior to loading this into the 30 cubic yard containers for removal and disposal, in as much as our ramp will now only accommodate two containers. (Prior to the canal relocation by the Sawgrass Expressway Authority a maximum of 4 containers could be used.) Although this method of operation was cleared by the Broward County Environmental Control Board (BC-EQCB) a year ago, we have received a Notice of Violation from FDER, and have an "informal conference" scheduled with the FDER for 1 p.m. May 20, 1987 regarding this matter.

"COPY PROVIDED CITY COMMISSION"
ON 5-14-87

Costs associated with the waste transfer station operation include our salary and wage costs for the staff operating the facility, use of equipment and other miscellaneous materials and supplies, plus the payment to Southern Sanitation for the removal and disposal of the accumulated solid wastes. These costs for the last few years, as expended from Code 5522 - Sanitation, are summarized as follows:

Period	Disposal	Wages	Other Costs	Total
82-83	114,660	46,261	7,051	167,972
83-84	70,180	53,637	15,250	139,067
84-85	95,841	30,157	5,199	131,197
85-86	121,153	42,458	14,277	177,888
86-87(6mo.)	44,156	22,916	5,681	72,753

DHS/jrr

DRAFT

WASTE TRANSFER STATION ACTIVITY

CUBIC YARDS TRANSFERRED

	FY82-83	FY83-84	FY84-85	FY85-86	FY86-87
October	5,070	6,390	3,510	4,020	3,000
November	3,960	4,080	3,510	2,340	2,730
December	7,290	2,820	2,730	3,720	3,000
January	7,050	3,240	3,960	4,620	3,630
February	3,780	2,700	4,620	4,830	3,000
March	7,590	3,420	5,850	3,750	3,450
April	8,430	3,120	5,850	3,480	
May	8,310	3,630	5,550	4,020	
June	7,470	3,540	4,020	3,030	
July	6,480	3,180	4,560	4,260	
August	5,820	3,060	4,440	2,910	
September	5,160	2,760	3,870	3,120	
TOTALS	76,410	41,940	52,470	44,100	18,810-6 mo.

DRAFT

"COPY PROVIDED CITY COMMISSION
5-14-87"

REC 5/7

Southern Sanitation Service
a division of Waste Management, Inc. of Florida
2700 N. W. 48th Street • Pompano Beach, Florida 33067 • (305) 974-7500

May 4, 1987

William N. Brady, City Manager
City of Coral Springs
9551 West Sample Road
Coral Springs, Florida 33065

Dear Mr. Brady:

We are pleased to propose to you an alternative to the present operation of the City of Coral Springs Waste Transfer Station. To implement this alternative, paragraph 16 of the Franchise Agreement, as amended, would be replaced in its entirety by the new paragraph 16, attached hereto.

The proposal preserves the handling of all solid wastes generated by City operations at no cost to the City. A centrally located site for City vehicles only is envisioned, which would be separate from the site to be used to service City of Coral Springs residents. This differs from the present operation, where both City vehicles and the resident's vehicles are served at the same location.

While this proposal will reduce the total hours of operation for residential service, we believe that it maintains the expected high level of service to the City of Coral Springs and its citizens. To assure that no degree of service is lost, in addition to the present curbside pickup of unlimited quantities of garbage and/or trash in approved containers, we would also pickup at curbside from customers, large items of furniture and household appliances.

We feel that this alternative would be advantageous to both the City and to our company. Since we would man and operate the facility serving residents, the City would no longer have the expense associated with attendents and loading equipment used by the present Transfer Station. Our proposed limit on the total number of containers to be billed protects the City by capping costs near a level based on 1986 waste volume hauled.

The benefits to our company would be from expanded curbside pickup which we are already equipped to handle, and from a reduced number of haul trips resulting from the use of on-site compactors at the resident service site.

"COPY PROVIDED CITY COMMISSION ON 5-14-87

We trust that the City, in considering this proposal, will find it attractive in terms of both manpower and dollar savings. We look forward to an early favorable response to the proposal.

Sincerely,

Edwin J. Johnson
General Manager

Attachment

EJJ/skt

DRAFT

16. TRANSFER SYSTEM

a. The CONTRACTOR shall provide for the Solid Waste Disposal needs of the Coral Springs City municipal operations, by providing rolloff containerized service at a central location to be prepared by the CITY. Empty containers shall be made available at all times to allow continuous disposal by CITY municipal elements. This service shall be provided free of charge to the CITY.

b. The CONTRACTOR shall provide containerized rolloff service for residents of the CITY, located at the intersection of the 127th Avenue and 39th Street in the Park of Industry. The site shall be operated and manned by CONTRACTOR Personnel, and will receive waste from CITY of Coral Springs residents, upon showing valid proof of residency, between the hours of 8:00 a.m. to 5:00 p.m. each Saturday and Sunday. Waste will be accepted only from cars, vans, and pickup trucks. Empty containers will be available at all times to allow continuous disposal during hours of of operation. Provisions will be made to accept all items generated in and around the homes of residents, except garbage, hazardous waste, body waste, dead animals, and abandoned vehicles. The CONTRACTOR may use 15 cy or 30 cy containers, or 40 cy compactor containers. Cost of installation and operation of compactors shall be the responsibility of the CONTRACTOR. CONTRACTOR personnel shall be responsible for removing all containers and cleaning the area within the fenced enclosure no later than the Monday following the weekend collection, and for pickup and removal of any litter which is deposited on the right-of-way of 39th Street, west of 126th Avenue, during the hours of operation. The CITY will be billed by the CONTRACTOR at the current Franchise Agreement rate of $154.50 per full 30 cy container, or equivalent, for waste collected at this location, up to a maximum of 800 each 30 cy container equivalents per 365 day period or for a prorated number for any shorter time period. For purposes of this limit, and payment to the CONTRACTOR, one 30 cy container is equal to two (2) 15 cy containers, and one 40 cy compactor container is equal to two (2) 30 cy containers.

c. Revised operation as described herein shall begin as soon as the agreement is approved and the requisite facilities are prepared. The CONTRACTOR shall be responsible for obtaining, at his own expense, any permits required for siting and operation.

DRAFT

MEETING ATTENDANCE

DATE 5/20/87

COMPANIES CITY OF CORAL SPRINGS

AGENCIES DER

NAME	REPRESENTING	TELEPHONE NO.
TOM COZZE	DER / ENFORCEMENT	(305) 964-9668
Donald H. Swets	DPW City of Coral Springs	(305) 344-1165
Martin J. Hanna	City of Coral Springs	(305) 344-1010
JOE WRIX	FDER	305 964-9668
Austin White	Coral Ridge Properties	305-752-1100
Roger Dyess	" "	" " EXT. 332
JIM BOCK	SOUTHERN SANITATION	(305) 974-7500
ROBERT GLENN	CITY OF CORAL SPRINGS	305 344-1164
ED JOHNSON	SOUTHERN SANITATION	974-7500
Jon Van Ainam	DER Enforcement	305 964-9668

DRAFT

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

ENFORCEMENT MEETING DOCUMENTATION

Attendees: (See attached list)

Location: DER/West Palm Beach Date: 5/20/87 Time: 100

Subject: City of Coral Springs Informal Conference

Meeting requested by: William Brady, City Manager

Meeting Objectives: to resolve issues raised in Notice of Violation regarding Coral Springs Transfer Station

****

Notes: Violations exist because material is allowed to contact ground surface. Operation continues. City of Coral Springs has prepared plans that will exempt operation from permitting requirements. Operation will be conducted at two separate sites; roll-off containers/compactors will be used. Expected to be operational ~90 days. DER wants wastes to be kept off land during interim period; Coral Springs will review options. DER wants PCAP on the site. Penalty discussed; moderate harm, major deviation plus 20% for willfulness, $4680. City will review and respond.

****

Agreements/Conclusions Reached:

- Coral Springs will inform DER if it intends to enter Consent Order (three-way with property owner Coral Ridge Properties); response will include 1) penalty arguments, 2) signed and sealed plans for 2 new facilities, 3) plans to minimize violations during interim period.
- Coral Springs will contact Camp, Dresser and McKee for purpose of developing PCAP.

****

Follow-up Actions/Dates:

- Within 10 days, Coral Springs to submit letter of response.
- Within 10 days, Coral Ridge Properties to submit letter expressing its agreement with discussed consent order terms.

****

Prepared by: Tom Cozzie
(Sign)

DRAFT

MW ⇒ PW ⇒ TC
PAN 5/11/87

DEPARTMENT OF PUBLIC WORKS

CITY OF CORAL SPRINGS FLORIDA

9551 WEST SAMPLE ROAD
P.O. BOX 754501
CORAL SPRINGS, FL 33075-4501
TELEPHONE (305) 344-1000

ADMINISTRATION
344-1165
Engineering Division
344-1170
Equipment Division
344-1180
Facilities Management
344-1182
Streets Division
344-1185
Utilities Division
344-1190

May 6, 1987

RECEIVED
MAY 8 1987
Dept. of Environmental Reg.
West Palm Beach

Mr. Richard E. Walesky
Enforcement Section Head
Southeast Florida District
State of Florida Department of
Environmental Regulation
1900 South Congress Avenue, Suite A
West Palm Beach, FL 33406

ATTN. Mr. Tom Cozzi

RE: DER Notice of Violation; Informal Conference with City of Coral Springs; OGC Case No. 87-0289

Dear Mr. Walesky:

This letter will confirm the discussion with Mr. Tom Cozzi of your staff, relative to an informal conference with representatives of the City of Coral Springs, regarding our Waste Transfer Station operation. We are looking forward to meeting with you on Wednesday, May 20, 1987, at 1:00 P.M., regarding this matter.

Very truly yours,

DONALD H. SWETS, P.E.
Director of Public Works

DHS/lo

cc: William N. Brady, City Manager
John M. Wynn, Esq., Asst. City Attorney
Martin J. Hanna, Esq., Asst. City Attorney
E. Austin White, Esq., CRP
Roger Dyess, CRP

DRAFT

May 5, 1987

RECEIVED
MAY 14 1987
Dept. of Environmental Reg.
West Palm Beach

District Engineer
U.S. Army Corps of Engineers
Jacksonville District
P. O. Box 4970
Jacksonville, FL 32232-0019

Dear Sir:

This letter is in regard to the recent public hearing on the proposed Broward County Dump. I would like to submit this written statement for the record.

Forget all the talk about plastic liners, berms, and catch basins, and trucking contaminated water to treatment plants. The fact is a dump pollutes the ground it occupies, and to put a dump on top of our fresh water supply is a CRIME! The officials who have given permission for such a project should be made to answer for such a disastrous decision. They are employed to PROTECT our quality of life - not destroy it!

Not too long ago, after very heavy rains, much of Broward County was under water. There were people who had to get to their homes by boat! A hurricane could, and someday will, create worse problems. Imagine all that rainwater running through 4-5 million tons of garbage. How can anyone believe that all that water can be contained, much less moved to a water treatment plant. And how can this contaminated water be treated? I think it is impossible. What will happen is that the water will drain into the ground and contaminate our fresh water supply.

The law requires cleanup of any ground water pollution. If there is a spill or leakinto the ground, monitoring wells are built and cleanup takes years. A massive dump in our wetlands area would be a disaster.

In Broward County, and all over the country, we need better solutions to our garbage problems. A bottle bill is vital. We need to separate our garbage, and we need a collection system that disposes of different types of garbage properly and most efficiently. We are all going to pay for our garbage, but I would like my dollars to be spent on the best possible solutions. We must put an end to our "throw away" society.

Based upon the fact that the dumpsite is in a wetlands area directly connected to our only source of fresh water, I plead with the Army Corps to deny the permit for the Broward County Dump. I request an Environmental Impact Statement for any development in the wetlands of Broward County and South Florida.

Very truly yours,

Carol Walters

Carol Walters
121 S.W. 52 Terrace
Plantation, FL 33317

cc: Broward County Commission, Scott Cowin
Florida Dept. of Environmental Regulation - Joe Lurix

DRAFT

Coral Ridge

CORAL RIDGE PROPERTIES, INC. / 3300 UNIVERSITY DRIVE / CORAL SPRINGS, FLORIDA 33065 / AREA CODE 305-752-1100

April 24, 1987

Mr. William N. Brady
City Manager
City of Coral Springs
9551 West Sample Road
Coral Springs, Florida 33075

Re: Lease dated May 26, 1982 by and between Florida National Properties, Inc., and the City of Coral Springs ("Lease Agreement")

Dear Mr. Brady:

On April 13, 1987, the Florida Department of Environmental Regulation ("DER") served a Notice of Violation on Coral Ridge Properties, Inc., and the City of Coral Springs ("the City"), for the operation of a solid waste transfer station by the City without an appropriate currently valid DER permit on the property leased by Florida National Properties, Inc., to the City by virtue of the above-referenced Lease Agreement.

As you may be aware, Paragraph 3 of that Lease Agreement specifically provides that:

> 3. COMPLIANCE WITH LAW: Lessee covenants and agrees that it will strictly abide by and comply with all statutes, ordinances, rules, regulations or other laws or requirements promulgated by Federal, State, or County authorities... governing pollution control, public health and welfare, and the collection and disposal of waste materials; and Lessee shall hold Lessor harmless for any violation of such regulatory laws committed or suffered by Lessee or its licensees, invitees and assigns in connection with the use... of the leased premises.

Moreover, Paragraph 4 of the Lease Agreement provides, among other things, that "[t]he Lessee agrees to indemnify and save harmless the Lessor from and against any and all loss, damage, claim, demand, liability or expense by reason of damage to person or property which may arise or be claimed to have arisen as a result of the occupancy or use of said leased premises by the Lessee or by reason thereof or in connection therewith, or in any way arising on account of any injury or damage caused to any person or property on or in the leased premises."

The operation of the waste transfer station by the City on the subject property without an appropriate DER permit since the

DELIVERED AT 5/6/87 MEETING

DRAFT

inception of the lease period evidences a breach of the Lease Agreement. As you may be aware, the Lease Agreement expired by its terms on May 31, 1985, and, because the City has been holding over in possession of said premises without renewing the Lease Agreement since that time, the City is a mere tenant at sufferance on the premises.

As a result of the foregoing, demand is hereby made that the City vacate the leased premises within thirty (30) days of the date of this letter. Additionally, demand is hereby made that the City cure its breach of the Lease Agreement by forthwith taking all necessary actions to implement the DER's Order for Corrective Action on the leased premises within the time frames set forth therein.

Please be advised that if the City fails to vacate the leased premises within the aforesaid thirty (30) day period, Florida National Properties will commence the necessary steps to cause the eviction of the City from the subject premises. Further, if the City fails to implement the DER's Order for Corrective Action within the appropriate time periods, and in the event that any damage to the leased premises has been caused as a result of the City's breach of the Lease Agreement and is not remedied by the City in accordance with the directives of the DER, or if any monetary settlement is demanded from Coral Ridge Properties by the DER as a result of the City's breach of the Lease Agreement, Florida National Properties shall invoke the aforesaid indemnification and hold harmless provisions of the Lease Agreement against the City.

This letter shall not operate as a waiver of any other remedies that the Company may have against the City as a result of the City's activities on the leased premises.

Kindly govern yourself accordingly.

Sincerely,

E. Austin White

E. Austin White
Attorney

cc: Mayor Ben Geiger
Commissioner Ed Heafy
Commissioner Jim Gordon
Commissioner Don Sanders
Commissioner Helen Tache

DRAFT

DEPARTMENT OF PUBLIC WORKS

CITY OF CORAL SPRINGS FLORIDA

9551 WEST SAMPLE ROAD
P.O. BOX 754501
CORAL SPRINGS, FL 33075-4501
Telephone: 344-1165

May 15, 1986

Mr. Douglas L. Vance
Vice President - Commercial Property
Florida National Properties, Inc.
3300 University Drive
Coral Springs, FL 33065

RE: Waste Transfer Station Site for the City of Coral Springs

Dear Mr. Vance:

I wish to thank you for your earlier communications with respect to the acquisition by the City of the site we have leased for a number of years for the operation of our Waste Transfer Station, serving the residents of the City of Coral Springs. As indicated to you in our discussion today, the City still is very interested in acquiring this site for this purpose.

With the construction of the Sawgrass Expressway, including the relocation of the canal adjacent to the Waste Transfer Station site, there may be a slight problem in the site description, which should be resolved prior to action by our City Commission. As you indicated on the phone to me this afternoon, Roger Dyess is having some surveying work accomplished and should have some survey markers in place, within the next week to ten days, along the relocated canal in this vicinity; thus, hopefully, this matter can be resolved in the near future.

It is my understanding that during the interim period, we are free to continue to utilize the site for our Waste Transfer operations. We appreciate your fine cooperation in this respect.

Very truly yours,

DONALD H. SWETS, P.E.
Director of Public Works

DHS/lo
cc: William N. Brady, City Manager
Robert W. Glenn, P.E., Asst. Dir. of Public Works
Noel J. Chin, P.E., City Engineer
Richard W. Carlson, Street Superintendent

DELIVERED AT 5/6/87 MEETING

DRAFT

L E A S E

THIS LEASE made and entered into this 26th day of May, 1982, by and between FLORIDA NATIONAL PROPERTIES, INC., a Florida corporation, with offices at 3300 University Drive, Coral Springs, Florida, hereinafter called Lessor, and the CITY OF CORAL SPRINGS, a municipal corporation of the State of Florida, hereinafter called Lessee:

W I T N E S S E T H:

THAT FOR and in consideration of One Dollar ($1.00) and other good and valuable consideration, the Lessor does hereby demise and lease unto Lessee the following described premises, together with improvements thereon, if any:

Commencing at Southwest corner of Section 18, Township 48 South, Range 41 East; thence North 00° 08' 48" West along west line of said Section 18, a distance of 2647.19 feet to a point; thence South 89° 27' 08" East a distance of 200.01 feet to the point of beginning; thence continuing South 89° 27' 08" East a distance of 352.49 feet to a point; thence South 00° 08' 48" East a distance of 444.03 feet to a point on the North line of 39th Street, said point being the beginning of a curve concave to the Southeast, having a radius of 203.00 feet and a central angle of 61° 27' 22", thence westerly, southwesterly and southerly an ARC distance of 217.74 feet to a point on the south line of 39th Street extended west, thence along said line North 89° 27' 08" West a distance of 172.88 feet to a point; thence North 00° 08' 48" West a distance of 550.04 feet to the point of beginning containing 4.140 acres said lands being in the City of Coral Springs, Broward County, Florida.

RMK 5/26/82

SUBJECT, HOWEVER, to easements of record and to easements in use.

TO HAVE AND TO HOLD the same for a term of three (3) years beginning on the 1st day of June, 1982, and ending on the 31st day of May, 1985, subject, however, to the provisions for termination stated in paragraph 7 below.

1. RENTAL: Lessor agrees to pay as rental for the use and possession of the above-described land, the annual sum of One Dollar ($1.00).

2. USE: Lessee covenants to use the leased premises exclusively as a site for, 1) placement of large refuse

DELIVERED AT 5/6/87 MEETING

DRAFT

containers for the deposit of matter such as builders' debris, waste paper products, household trash, yard and tree clippings and similar waste; 2) bulk material storage such as road rock, sand, clay, surplus equipment and supplies and similar materials; 3) temporary deposit of tree and shrubbery cuttings on the ground, such cuttings to be removed on a regular basis but not less than every fifteen (15) days. It is expressly understood that explosives, hazardous substances, animal excretions, or remains or other waste material which is likely to attract insects, animals, birds or other creatures capable of or likely to spread disease is prohibited. Lessee agrees that said refuse containers shall be promptly removed when full and replaced with an empty container. Lessee further agrees to always keep the premises as neat and orderly as such an operation permits during the term of this lease.

3. COMPLIANCE WITH LAW: Lessee covenants and agrees that it will strictly abide by and comply with all statutes, ordinances, rules, regulations or other laws or requirements promulgated by Federal, State, or County authorities and administrative or judicial bodies governing pollution control, public health and welfare, and the collection and disposal of waste materials; and Lessee shall hold Lessor harmless for any violation of such regulatory laws committed or suffered by Lessee or its licensees, invitees and assigns in connection with the use, as described in paragraph 2 above, of the leased premises.

4. INDEMNIFICATION AND HOLD-HARMLESS: The Lessor shall not be liable for any damage or injury to any person or property whether it be the person or property of the Lessee, his employees, agents, guests, invitees or otherwise by reason of Lessee's occupancy of the leased premises or because of fire, flood, windstorm, Acts of God or for any other reason. The Lessee agrees to indemnify and save harmless the Lessor from and against any and all loss, damage, claim, demand, liability or expense by reason of damage to person or property which may arise

DRAFT

or be claimed to have arisen as a result of the occupancy or use of said leased premises by the Lessee or by reason thereof or in connection therewith, or in any way arising on account of any injury or damage caused to any person or property on or in the leased premises providing, however, that Lessee shall not indemnify as to the loss or damage due to fault of Lessor.

5. REAL ESTATE TAXES: In addition to the rents hereinabove reserved to Lessor, Lessee covenants to pay all taxes legally levied against the leased premises during the term of this lease.

6. TERMINATION: After thirty (30) days from the beginning of the lease term, either party may cancel this lease as to any part or all of the leased lands by giving notice of the cancellation in writing to the other party not less than ninety (90) days prior to the date of cancellation.

7. SUBLEASING: This lease may not be assigned in whole or in part without prior written approval of Lessor.

8. NOTICES: Notices served under the terms of this lease may be served personally or by registered or certified mail, return receipt requested, posted in one of the States of the United States of America, and shall be effective upon receipt. Notices to Lessor shall be given to the address which Lessor shall furnish to Lessee, and until further notice the address shall be as follows:

FLORIDA NATIONAL PROPERTIES
3300 University Drive
Coral Springs, Florida 33065.

Notices to Lessee shall be given to the address which Lessee shall furnish to Lessor, and until further notice the address shall be as follows:

CITY OF CORAL SPRINGS
9551 West Sample Road
Coral Springs, Florida 33065.

9. QUIET ENJOYMENT: Lessor hereby covenants with Lessee that Lessee may have quiet and peaceful enjoyment of possession of the herein leased property and premises without any

DRAFT

interruption by Lessor, provided, however, that Lessee shall not in any wise breach any of the covenants herein contained. Lessor shall be entitled at all reasonable times to enter on said premises for inspection of the premises and for the showing of the premises to any prospective purchasers or tenants, and for any other lawful purpose; and to this end Lessee shall at all times maintain an access road to the receptacle area.

THIS LEASE is not to be recorded among the Public Records of any county in the State of Florida.

IN WITNESS WHEREOF, the parties hereto have executed this instrument in manner and form sufficient in law, the day and year first above written.

FLORIDA NATIONAL PROPERTIES, INC.

By: _____
Werner Buntemeyer, Pres.

APPROVED
KGH

Attest:
_____
A. N. Malanos, Secretary

CITY OF CORAL SPRINGS

By: _____
O. B. Geiger, Mayor

Attest:
_____
Jonda K. Joseph, City Clerk

DRAFT

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

ENFORCEMENT MEETING DOCUMENTATION

Attendees: (See attached list)

Location: DER/West Palm Beach Date: 5/6/87 Time: 300

Subject: Coral Ridge Properties Informal Conference

Meeting requested by: Austin White, atty for Coral Ridge

Meeting Objectives: To resolve issues raised in NOV issued to City of Coral Springs and Coral Ridge Properties that involve the landowner.

****

Notes: DER noted that as co-respondent Coral Ridge Properties could be pursued for corrective actions ~~under~~ under joint and several liability. Coral Ridge leases the property to the City at $1.00/yr. Upon receipt of the NOV, Coral Ridge ordered the City to vacate in 30 days (document submitted). Meanwhile the operation continues. Coral Ridge is agreeable to allowing City access for corrective actions; but if negotiations break down with the City, cleanup will be Coral Ridge responsibility. Appropriate corrective actions for Coral Ridge will be determined following City of Coral Springs informal conference.

****

Agreements/Conclusions Reached:

- Appropriate corrective actions for the landowner, Coral Ridge Properties, will be determined following City of Coral Springs informal conference.

****

Follow-up Actions/Dates:

****

Prepared by: Tom Cozzie
(Sign)

DRAFT

MEETING ATTENDANCE

DATE 5/6/87

COMPANIES Coral Ridge Properties

AGENCIES DER

NAME	REPRESENTING	TELEPHONE NO.
Tom Cozzie	DER/Enforcement	305 964-9668
Richard Walesky	FDER	305 964-9668
Austin White	Coral Ridge Properties	305-752-1100
Pete Kuhne	Coral Ridge Properties	— " —
Joe Lurix	FDER	305 /964-9668

DRAFT

attendance

MW → PW → TC
PW 4/27/87

OFFICE OF THE CITY MANAGER

CITY OF CORAL SPRINGS FLORIDA

9551 WEST SAMPLE ROAD
P.O. BOX 754501
CORAL SPRINGS, FL 33075-4501
TELEPHONE (305) 344-1004

WILLIAM N. BRADY
City Manager

RECEIVED
APR 23 1987
Dept. of Environmental Reg.
West Palm Beach

April 22, 1987

Mr. Richard E. Walesky
Enforcement Section Head
Southeast Florida District
State of Florida Department of
Environmental Regulation
1900 South Congress Avenue, Suite A
West Palm Beach, Florida 33406

Re: Department of Environmental Regulation Vs. City of Coral Springs and Coral Ridge Properties, Inc.; OGC Case No. 87-0289

Dear Mr. Walesky:

With your letter on the above referenced subject to The Honorable O.B. Geiger, Mayor, dated April 13, 1987, and received by the City on April 14, 1987, you forwarded a Notice of Violation issued by the Department of Environmental Regulation in the referenced case.

In accordance with paragraph 3 of the Notice of Rights Section of that Notice of Violation, an informal Conference with the Department is hereby requested pursuant to Florida Administrative Code Rule 17-103.090.

Sincerely,

WILLIAM N. BRADY
City Manager

WNB:jlr

cc: Donald E. Sawyer, Deputy City Manager
Donald H. Swets, P.E., Director of Public Works
John M. Wynn, Assistant City Attorney

DRAFT

RW > PW > TC
PW 4/24/87

Coral Ridge

CORAL RIDGE PROPERTIES, INC. / 3300 UNIVERSITY DRIVE / CORAL SPRINGS, FLORIDA 33065 / AREA CODE 305-752-1100

RECEIVED
APR 23 1987
Dept. of Environmental Reg.
West Palm Beach

April 22, 1987

Mr. Richard E. Walesky, Enforcement Section Head
Southeast Florida District
State of Florida Department of Environmental Regulation
1900 South Congress Avenue, Suite A
West Palm Beach, Florida 33406

Re: State of Florida Department of Environmental Regulation
vs. City of Coral Springs and Coral Ridge Properties, Inc.
OGC Case No. 87-0269

Dear Richard:

In accordance with our recent telephone conversation, enclosed herein please find a Request for an Informal Conference hereby submitted by Coral Ridge Properties, Inc., in the above-referenced matter.

I will attempt to meet with representatives of the City of Coral Springs to see if they will join us in meeting with the Department on an informal basis in order to arrive at a prompt resolution of this matter.

If you have any questions or if you need any additional information, please contact me. I will wait to hear from you with regard to the time, date, and place that the informal conference will be held.

Thank you for your cooperation.

Sincerely,

Austin White

E. Austin White
Attorney

DRAFT

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION, Complainant, vs. CITY OF CORAL SPRINGS and CORAL RIDGE PROPERTIES, INC., Respondents.	)	IN THE OFFICE OF THE SOUTHEAST FLORIDA DISTRICT OGC CASE NO. 87-0269

REQUEST FOR INFORMAL CONFERENCE

TO: Mr. Richard E. Walesky, Enforcement Section Head
Southeast Florida District
State of Florida Department
of Environmental Regulation
1900 South Congress Avenue, Suite A
West Palm Beach, Florida 33406

Pursuant to Rule 17-103.090, Florida Administrative Code, Respondent, CORAL RIDGE PROPERTIES, INC., through its undersigned attorney, hereby requests that an informal conference be scheduled in order to seek a prompt and amicable resolution of the above-styled matter.

Dated this 22nd day of April, 1987.

CORAL RIDGE PROPERTIES, INC.

E. Austin White

E. Austin White
Attorney for
Coral Ridge Properties, Inc.
3300 University Drive
Coral Springs, Florida 33065
(305) 752 1100

Copy furnished to:
The City of Coral Springs

DRAFT

FILE COPY

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHEAST FLORIDA DISTRICT
1900 SOUTH CONGRESS AVENUE
WEST PALM BEACH, FLORIDA 33406

BOB MARTINEZ
GOVERNOR
DALE TWACHTMANN
SECRETARY
J. SCOTT BENYON
DISTRICT MANAGER

APR. 1 3 1987

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

The Honorable Mr. O. B. Geiger, Mayor
City of Coral Springs
9551 West Sample Road
Coral Springs, Florida 33065

Dear Mayor Geiger:

RE: Department of Environmental Regulation vs. City of Coral Springs and Coral Ridge Properties, Inc.; OGC Case No. 87-0289.

Attached is a Notice of Violation (NOV) issued by the Department in the referenced case. The NOV addresses allegations of City of Coral Spring's violations of Florida Statutes and Department rules.

The Department has developed a policy which calls for the assessment and collection of monetary settlements upon referral of cases to its enforcement section. Pursuant to this policy, the Department has calculated that an appropriate penalty in this matter is $4,680.00.

Please be advised that any administrative resolution of this matter must address the issue of payment of a monetary settlement by City of Coral Springs. In the absence of such a settlement, the Department may seek a separate judicial resolution of the penalties issue.

The NOV's Notice of Rights section explains what recourse City of Coral Springs has concerning resolution of the allegations contained in the NOV. Please read this section carefully.

Sincerely,

Richard E. Walesky

Richard E. Walesky
Enforcement Section Head

REW:tcb

Enclosure

cc: Office of General Counsel, DER, Tallahassee
Broward County Environmental Quality Control Board
City of Coral Springs
Coral Ridge Properties, Inc.
Solid Waste Section, DER, West Palm Beach
West Palm Beach Files

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FILE COPY

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION, Complainant, vs. CITY OF CORAL SPRINGS and CORAL RIDGE PROPERTIES, INC., Respondents.	:	IN THE OFFICE OF THE SOUTHEAST FLORIDA DISTRICT OGC Case No. 87-0269

NOTICE OF VIOLATION AND
ORDERS FOR CORRECTIVE ACTION

TO: The Honorable Mr. O. B. Geiger, Mayor
City Commission
City of Coral Springs
9551 West Sample Road
Coral Springs, Florida 33065

Certified Mail Number P 402 790 932

Mr. W. Buntemeyer
President and Registered Agent
Coral Ridge Properties, Inc.
3300 University Drive
Coral Springs, Florida 33065

Certified Mail Number P 402 790 933

Pursuant to the authority of Section 403.121(2), Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Rule 17-103.110(1), the State of Florida Department of Environmental Regulation ("Department") gives notice to the City of Coral Springs ("Respondent Coral Springs") and Coral Ridge Properties, Inc. ("Respondent Coral Ridge") of the following findings of fact and conclusions of law with respect to violations of Chapter 403, F.S., and F.A.C. Title 17.

FINDINGS OF FACT

PARAGRAPHS APPLICABLE TO ALL COUNTS

1. The Department is the administrative agency of the State of Florida which has the authority to administer and enforce the provisions of Chapter 403, F.S., and the rules promulgated thereunder in F.A.C. Title 17.

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2. Respondent Coral Springs is a municipality which operates a solid waste transfer station at 39 Street and the Sawgrass Expressway, Coral Springs, Broward County, Florida.

3. Respondent Coral Ridge is a Delaware corporation which owns the property bounded by Northwest 39 Street, Northwest 126 Avenue, and the Sawgrass Expressway, located in Township 48 South, Range 41 East, Section 19, Broward County, Florida, upon which Respondent Coral Springs operates the solid waste transfer station referenced above.

4. On October 8, 1986, the Department inspected the solid waste transfer station operated by Respondent Coral Springs. The inspection revealed that Respondent Coral Springs was operating the facility without a permit. As part of the operation, solid wastes were trucked to the site, deposited on the land, and then loaded into containers for removal to a landfill.

5. The Department sent Respondent Coral Springs a letter dated November 4, 1986, notifying Respondent Coral Springs that operation of the transfer station constituted violations of Department rules.

6. On November 21, 1986, Respondent Coral Springs met with representatives of the Department. At that time, Respondent Coral Springs was advised of the necessary actions to achieve compliance with Department rules for the solid waste transfer station.

7. A letter from Respondent Coral Springs to the Department dated December 29, 1986, indicated that the violation had not been corrected as prescribed by the Department in the November 21, 1986 meeting.

COUNT I

8. Since before October 8, 1986, Respondent Coral Springs has operated a solid waste transfer station without an appropriate and currently valid Department permit. By allowing operation of the [illegible]on its property, Respondent Coral Ridge has maintained a

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solid waste transfer station without an appropriate and currently valid Department permit.

COUNT II

9. Since before October 8, 1986, Respondent Coral Springs has operated a stationary installation reasonably expected by the Department to be a source of water pollution, without appropriate and valid Department permits. By allowing operation of the facility on its property, Respondent Coral Ridge has maintained a stationary installation reasonably expected by the Department to be a source of water pollution, without appropriate and valid Department permits.

COUNT III

10. Since before October 8, 1986, Respondent Coral Springs has placed residential trash and garbage and other waste materials on land located within the State without Department approval.

COUNT IV

11. The Department has incurred expenses to date while investigating this matter in an amount not less than $500.00.

CONCLUSIONS OF LAW

The Department has evaluated the findings of fact with regard to the requirements of Chapter 403, Parts I and IV, F.S.; and F.A.C. Chapters 17-4 and 17-7. Based on the foregoing facts, the Department has made the following conclusions of law:

12. Respondents Coral Springs and Coral Ridge are persons within the meaning of Sections 403.031 and 403.703, F.S.

13. The residential trash, garbage, and other waste materials deposited by Respondent Coral Springs are solid wastes within the meaning of Section 403.703(9), F.S., and F.A.C. Rule 17-7.020.

14. Respondent Coral Springs' operation is a solid waste resource recovery and management facility as defined in Section 403.703(7), F.S.

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15. The facts related in Count I constitute violations of Sections 403.707(1), and 403.708(1)(c), F.S., which state that no solid waste resource recovery and management facility or site shall be operated, maintained, constructed, expanded, modified, or closed without an appropriate and currently valid permit from the Department.

16. The facts related in Count II constitute violations of Section 403.087(1), F.S., and F.A.C. Rule 17-4.03 which provide that no stationary installation which will reasonably be expected to be a source of air or water pollution shall be operated, maintained, constructed, expanded, or modified without an appropriate and currently valid permit issued by the Department.

17. The facts related in Count III constitute a violation of Section 403.708(1)(a), F.S., which prohibits the placement or deposit of any solid waste in or on the land or waters located in the State except in a manner approved by the Department.

18. The costs and expenses related in Count IV are reasonable costs and expenses incurred by the Department while investigating this matter, which are recoverable pursuant to Section 403.141(1), F.S.

ORDERS FOR CORRECTIVE ACTION

The Department has alleged that the activities related in the findings of fact constitute violations of Florida law. The Orders for Corrective Action state what Respondents must do in order to correct and redress the violations alleged in this Notice.

The Department will adopt the Orders for Corrective Action as part of its Final Order in this case unless Respondents file a timely petition for a formal hearing or informal proceeding, pursuant to Section 403.121, F.S., and F.A.C. Rule 17-103.110 (see Notice of Rights). If Respondents fail to comply with the corrective actions ordered by the Final Order, the Department is authorized to file suit seeking judicial enforcement of the Department's order pursuant to Sections 120.69 and 403.131, F.S.

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Pursuant to the authority of Sections 403.061(8) and 403.121, F.S., and F.A.C. Rule 17-103.110, the Department proposes to adopt in its Final Order in this case the following specific corrective actions which will redress the alleged violations:

19. Respondents shall immediately cease all solid waste management or disposal operations at the subject facility. Within thirty (30) days Respondents shall remove all solid wastes from the subject site and dispose of them in an approved landfill.

20. Respondents shall henceforth comply with all Department rules governing solid waste management and disposal. Within thirty (30) days Respondents shall correct and redress all violations alleged in this Notice. Thereafter, Respondents shall not engage in further or additional solid waste management activities until and unless Respondents have fully complied with all applicable sections of F.A.C. Chapters 17-4 and 17-7.

21. Within forty-five (45) days Respondent Coral Springs shall submit to the Department a detailed, itemized report describing and certifying compliance with paragraphs 19 and 20 of this Notice.

22. Respondents shall remain liable to the Department for any environmental damages resulting from the violations alleged herein and for the correction, control and abatement of any pollution emanating from the subject facility.

23. Within thirty (30) days, Respondent Coral Springs shall make payment to the Department for costs and expenses in the amount of $500.00. Payment shall be made by certified check or money order payable to the "State of Florida Department of Environmental Regulation" and sent to the Florida Department of Environmental Regulation, Southeast District Office, 1900 South Congress Avenue, Suite A, West Palm Beach, Florida 33406.

24. Respondents shall implement the study as set forth in Preliminary Contamination Assessment Actions attached hereto as Exhibit I, within the time frames specified.

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25. In the event the Preliminary Assessment described in Exhibit I reveals the presence of contaminants in the soil, sediment, surface water and/or groundwater in violation of water quality standards or minimum criteria set forth in F.A.C. Chapter 17-3; or reveals the presence of contaminants which may reasonably be expected to cause pollution of surface and/or groundwater of the State in excess of such standards or criteria, Respondents shall implement the corrective actions in the manner and within the time frames set forth in the document entitled "Corrective Actions for Groundwater Contamination Cases" attached as Exhibit II. Such time frames shall begin upon notification by the Department that the presence of contaminants has been confirmed and that such corrective actions are necessary.

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NOTICE OF RIGHTS

1. Respondents have the right to a formal administrative hearing pursuant to Section 120.57(1), Florida Statutes, if Respondents dispute issues of material fact raised by this Notice of Violation and Orders for Corrective Action ("Notice"). At a formal hearing, Respondents will have the opportunity to be represented by counsel, to present evidence and argument on all issues involved, to conduct cross-examination and submit rebuttal evidence, to submit proposed findings of fact and orders, and to file exceptions to any order or hearing officer's recommended order.

2. Respondents have the right to an informal administrative proceeding pursuant to Section 120.57(2), Florida Statutes, if Respondents do not dispute issues of material fact raised by this Notice. If an informal proceeding is held, Respondents will have the opportunity to be represented by counsel, to present to the agency written or oral evidence in opposition to the Department's proposed action, or to present a written statement challenging the grounds upon which the Department is justifying its proposed action.

3. Respondents may request an informal conference with the Department pursuant to Florida Administrative Code Rule 17-103.090 in order to resolve this matter promptly and amicably. Respondents' rights will not be adjudicated at an informal conference, and the right to a formal hearing or informal proceeding will not be affected by requesting and participating in an informal conference.

4. If Respondents desire a formal hearing or an informal proceeding, Respondents must file a written responsive pleading entitled "Petition for Administrative Proceeding" within twenty (20) days of receipt of this Notice. The petition must be in the form required by Florida Administrative Code Chapter 17 and by Florida Administrative Code Rule 28-5.201. A petition is filed when

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it is received by the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. A petition must specifically request a formal hearing or an informal proceeding, it must admit or deny each Finding of Fact of this Notice, and it must state any defenses upon which Respondents rely. If Respondents lack knowledge of a particular allegation, Respondents must so state, and that statement will operate as a denial.

5. If Respondents desire an informal conference, Respondents must file a written "Request for Informal Conference" within ten (10) days of receipt of this Notice. The request must be made to the person indicated on the last page of this Notice. The request is filed when it is received by the office of the person indicated on the last page of this Notice. If no resolution of this matter results from the informal conference, Respondents have the right to file a petition for a formal hearing or informal proceeding within ten (10) days of the date the conference is held.

6. Respondents will waive the right to a formal hearing or an informal proceeding if a petition is not filed with the Department within twenty (20) days of receipt of this Notice or within ten (10) days of date of an informal conference if one is held. These time limits may be varied only by written consent of the Department.

7. The allegations of this Notice together with the Orders for Corrective Action will be adopted by the Department in a Final Order if Respondents fail to file a timely petition for a formal hearing or informal proceeding, pursuant to Section 403.121, Florida Statutes and Florida Administrative Code Rule 17-103.110. A Final Order will constitute a full and final adjudication of the matters alleged in the Notice of Violation and Orders for Corrective Action.

8. If Respondents fail to comply with the Final Order, the Department is authorized to file suit in circuit court seeking a mandatory injunction to compel compliance with the Order,

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pursuant to Sections 120.69, 403.131, and 403.727, Florida Statutes. The Department may also seek to recover damages, all costs of litigation including reasonable attorney's fees and expert witness fees, and civil penalties of not more than $10,000 per day for each day that Respondents have failed to comply with the Final Order.

9. Litigation will be avoided if Respondents immediately comply with the Orders for Corrective Action. This matter may also be resolved if the Department and Respondents enter into a Consent Order, in accordance with Florida Administrative Code Rule 17-103.110(3), upon such terms and conditions as may be mutually agreeable.

10. The Department is not barred by the issuance of this Notice from maintaining an independent action in circuit court with respect to the alleged violations. If such action is warranted, the Department may seek injunctive relief, damages, civil penalties of not more than $10,000 per day, and all costs of litigation.

11. Copies of Department rules referenced in this Notice may be examined at any Department office or may be obtained by written request to the District Manager whose name and address follow:

DATED this 13th day of April 1987.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

J. SCOTT BENYON, District Manager
1900 South Congress Avenue, Suite A
West Palm Beach, Florida 33406
Telephone: 305/964-9668

Copies furnished to:
City of Coral Springs
Coral Ridge Properties, Inc.
Office of General Counsel, DER, Tallahassee
Broward County Environmental Quality Control Board
Solid Waste Section, DER, West Palm Beach
West Palm Beach DER Files

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A petition for hearing must be filed with:

OFFICE OF GENERAL COUNSEL
State of Florida Department
of Environmental Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
Telephone: 904/488-9730

A request for an informal conference must be made to:

Richard E. Walesky, Enforcement Section Head
Southeast Florida District
State of Florida Department
of Environmental Regulation
1900 South Congress Avenue, Suite A
West Palm Beach, Florida 33406
Telephone: 305/964-9668

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PRELIMINARY CONTAMINATION ASSESSMENT ACTIONS

1. Within 30 days of the effective date of the Order incorporating these preliminary contamination assessment actions, Respondent shall submit a Preliminary Contamination Assessment Plan ("PCAP") to the Department. The PCAP shall describe the tasks that Respondent proposes to perform in order to determine whether the soil, sediment, surface water and/or groundwater are contaminated at Respondent's facility; and if so, whether such contamination has resulted in a violation of the water quality standards and minimum criteria established in Florida Administrative Code Chapter 17-3. The PCAP shall include a time schedule for each task so that all tasks can be completed and a Preliminary Contamination Assessment Report ("PCAR") can be submitted to the Department within 90 days of the effective date of the Order.

2. The PCAP shall contain proposals for sampling and analysis for all of the following contaminants:

a. priority pollutant metals;

b. priority pollutant organic chemicals using EPA methods 624 and 625;

c. all organic chemicals with peaks greater than five micrograms per liter (ug/l) using EPA methods 624 and 625;

d. pesticides.

The number of contaminants to be analyzed may be reduced if Respondent can demonstrate to the Department's satisfaction that the contaminants proposed to be deleted from the list cannot be attributed to any activities that have taken place at Respondent's facility. The Department shall submit written notification to the Respondent if the number can be reduced.

3. The Department shall review the PCAP and provide Respondent with a written response to the proposal. Respondent shall not implement the PCAP until Respondent receives written notification from the Department that the PCAP has been approved.

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4. Additionally, the PCAP shall include a description of Quality Assurance procedures, such as:

a. details of monitoring well construction

b. sampling equipment and methods

c. analytical methods and detection limits

If contaminants are not detected or are detected at levels less than water quality standards, then information describing lab precision and accuracy must accompany the data for validation.

5. Upon completion of the PCAP, Respondent shall submit a written Preliminary Contamination Assessment Report ("PCAR") to the Department. The PCAR shall:

a. summarize and analyze all PCAP tasks;

b. compare analytical data collected with surface and groundwater quality standards and criteria set forth in Florida Administrative Code Chapter 17-3;

c. identify, to the extent possible, the source(s), extent, and concentrations of contaminants, and the existence of any imminent hazards.

6. The Department shall review the PCAR and determine whether it is adequate to meet the objectives of the PCAP. In the event that additional information is necessary to evaluate the PCAR, the Department shall make a written request and Respondent shall provide all requested information within 20 days of receipt of said request.

7. Respondent shall provide written notification to the Department at least ten days prior to the installation or sampling of any monitoring wells, and shall allow Department personnel the opportunity to observe installation and sampling and to take split samples. All necessary approvals must be obtained from the Water Management District before any wells are installed. Raw data shall be exchanged between Respondent and the Department as soon as the data is available.

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8. If the Department's review of the PCAR indicates that the soil, sediments, surface water or groundwater is contaminated, or if the Department rejects the PCAP or PCAR for not meeting the objectives for analyzing or reporting on the analysis of the contaminants that are the subject of the assessment, the Department reserves the right to do any or all of the following:

a. seek further administrative relief through the filing of a Notice of Violation or entry of a Consent Order which requires Respondent to conduct further assessment and cleanup at its facility;

b. file suit for injunctive relief, civil penalties, damages and expenses, or

c. perform the necessary corrective actions at Respondent's facility and recover the costs of such actions from Respondent.

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CORRECTIVE ACTIONS FOR GROUNDWATER CONTAMINATION CASES

1. Within 60 days, Respondent shall submit to the Department a detailed written Contamination Assessment Plan ("CAP") unless the Department has required prior submittal of a Preliminary Contamination Assessment Plan ("PCAP"), in which case the Department will notify Respondent as to whether or not a CAP will be required.

A. The objectives of the CAP shall be to:

(1) Establish the areal and vertical extent of soil, sediment, surface water and groundwater contamination;

(2) Determine or confirm the contaminant source(s); mechanisms of contaminant transport; rate and direction of contaminant movement in the air, soils, surface water and groundwater; and rate and direction of groundwater flow;

(3) Provide a complete characterization of the contamination plume(s);

(4) Determine whether interim remedial measures are necessary to abate any imminent hazard.

B. The CAP shall contain tasks, the purposes of which are to arrive at the objectives described in subparagraph 1.A. above. The CAP shall include a reasonable time schedule for completing each task. The tasks may include but are not limited to the following:

(1) Use of piezometers to determine the horizontal and vertical directions of the groundwater flow;

(2) Use of electromagnetic conductivity (EM) and other geophysical methods to trace extent of groundwater contamination;

(3) Use of fracture trace analysis to discover linear zones in which discrete flow could take place;

(4) Use of sand point or monitoring wells to sample areas of contaminated groundwater and to determine the vertical and horizontal extent of the groundwater plume;

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(5) Sampling of private wells;

(6) Sampling of surface water and sediments;

(7) Sampling of air for airborne contaminants;

(8) Soil sampling surveys using grid systems; geophysical equipment such as EM, magnetometers, and metal detectors to detect drums, tanks, etc; vapor analyzers; and Extraction Procedure (EP) toxicity testing;

(9) Analysis of soils and drum residues for hazardous waste determination and waste characterization.

C. The CAP shall include a quality assurance/quality control plan ("QA/QC Plan"), which shall apply to all sampling and analysis required by this Consent Order. The QA/QC Plan shall be prepared in accordance with the requirements set forth in the document entitled "DER Guidelines for Preparing Quality Assurance Plans, DER-QA-001/85". A copy of the document is available upon request from the Department. A QA/QC Plan is required for all persons collecting or analyzing samples. The Department reserves the right to reject all results submitted by Respondent prior to QA/QC Plan approval.

2. The Department shall review the CAP and provide the Respondent with a written response to the proposal. Respondent shall not implement the CAP until Respondent receives written notification from the Department that the CAP has been approved.

3. In the event that additional information is necessary for the Department to evaluate the CAP, the Department shall make a written request to Respondent for the information, and Respondent shall provide all requested information in writing to the Department within 20 days from receipt of said request unless the requested information requires additional field work in which case the Respondent shall submit to the Department a written schedule for completing the field work needed to provide the requested information.

4. In the event that the Department determines that the CAP submitted by Respondent does not adequately address the objectives

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Respondent shall then have 30 days from the Department's notification to resubmit a modified CAP addressing the deficiencies noted by the Department.

5. If the Department determines upon review of the resubmitted CAP that the CAP still does not adequately address the objectives of the CAP as set forth in subparagraph 1.A. above, the Department, at its option, may choose either to:

A. Draft specific modifications to the CAP and notify Respondent in writing that the Department's modifications shall be incorporated in the CAP; or

B. Notify Respondent that Respondent has failed to comply with paragraph four above, in which case the Department may do any or all of the following: take legal action to enforce compliance, file suit to recover damages and civil penalties, or complete the corrective actions outlined herein and recover the costs of completion from Respondent.

6. Once a CAP has been approved by the Department it shall become effective and shall be implemented within ten days of the Department's notification to Respondent that the CAP has been approved. The CAP shall incorporate all required modifications to the CAP identified by the Department.

7. Within 45 days of completion of the tasks in the CAP, Respondent shall submit a written contamination assessment report ("CAR") to the Department. The CAR shall:

A. Summarize and analyze all CAP tasks;

B. Discuss the CAP objectives outlined in subparagraph 1.A.; and

C. Specify conclusions regarding CAP objectives outlined in subparagraph 1.A.

8. The Department shall review the CAR and determine whether it has adequately met the objectives specified in subparagraph 1.A. In the event that additional information is necessary to evaluate the CAR, the Department shall make a written request and Respondent shall provide all requested information

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within 20 days of receipt of said request unless the requested information requires additional field work in which case the Respondent shall submit in writing to the Department a reasonable schedule for completing the field work needed to provide the requested information.

9. If the Department determines from review of the CAR that there is a need for a Feasibility Study ("FS"), Respondent shall submit to the Department for its review a Feasibility Study Plan ("FSP"). The FSP shall be submitted within 30 days of receipt by Respondent of the Department's determination that a FS for a particular site is necessary. The purpose of the FS is to develop and evaluate all alternatives in order to identify the most cost effective and environmentally sound remedial action for the site. The FSP shall provide an outline of the elements to be included in the FS and shall explain how Respondent plans to address each of the elements. The FSP shall provide a detailed description of the technical approach Respondent shall use to address each task to be conducted during the FS. At a minimum, the FSP shall address the following task elements:

A. The objectives of the remedial action, as required by Department rules and state and federal statutes: e.g., to prevent groundwater contamination; to remove, contain or render harmless the contamination source; to cleanup to the water quality criteria and minimum standards in Florida Administrative Code Chapter 17-3; etc.;

B. Risk assessment, which shall include consideration of the toxicity, transport mechanisms, persistence in the environment, and impacts on human health and the environment of the substances associated with the site;

C. Methods to quantify contaminant movement off-site, to identify impact zones, and to identify and quantify hazardous zones;

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D. Development of criteria for evaluation of remedial alternatives for the site, to include at a minimum, environmental protection, environmental effects, implementability, capital costs, operations and maintenance costs, present worth, safety requirements during implementation, reliability, operation and maintenance requirements, feasibility, time required to achieve cleanup, and legal consideration of the alternatives;

E. Identification and review of pertinent treatment, containment, removal and disposal technologies;

F. Screening of technologies to detect the most appropriate technologies and to eliminate those clearly not feasible or appropriate;

G. Pilot tests or bench tests to evaluate the alternatives if necessary;

H. Review and selection of potential remedial alternatives using criteria established in tasks D through G above:

I. Selection of the best remedial alternative; and

J. A reasonable timetable for completion of the tasks.

10. The Department shall review the FSP and provide Respondent with a response to the proposal. Respondent shall not implement the FS tasks until Respondent receives written notification from the Department that the FSP has been approved.

11. In the event that additional information is necessary for the Department to evaluate the FSP, the Department shall make a written request, and Respondent shall provide all requested information in writing to the Department within 20 days from receipt of said request.

12. In the event that the Department determines that the FSP submitted by Respondent does not adequately address the objectives in paragraph nine, the Department will notify Respondent in writing of the FSP's deficiencies. Respondent shall then have 20 days from the Department's notification to submit a modified FSP addressing the deficiencies noted by the Department.

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13. If the Department determines upon review of the resubmitted FSP that the FSP still is not adequate, the Department, at its option, may choose either to:

A. Draft specific modifications to the FSP and notify Respondent in writing that the Department's modifications shall be incorporated in the FSP; or

B. Notify Respondent that Respondent has failed to comply with paragraph 12 above, in which case the Department may do any or all of the following: take legal action to enforce compliance, file suit to recover damages and civil penalties, or complete the corrective actions outlined herein and recover the costs of completion from Respondent.

14. Once the FSP, with modifications, if any, has been approved by the Department, it shall become effective and shall be implemented by Respondent within ten days of the Department's notification to Respondent that the FSP has been approved.

15. Within 45 days of completing the FS, Respondent shall submit a FS Report to the Department. The FS Report shall:

A. Summarize and analyze all FS task results; and

B. Propose a conceptual remedial action plan based on the selection process carried out in the FS.

16. The Department shall review the FS Report and determine whether it has adequately met the remedial action objectives. In the event that additional information is necessary to evaluate the FS report, the Department shall make a written request and Respondent shall provide all requested information witin 20 days from receipt of said request.

17. Within 45 days of receipt of written approval of the FS Report from the Department or within 30 days of the Department's determination pursuant to paragraph nine above that no FS is necessary, Respondent shall submit to the Department a detailed Remedial Action Plan ("RAP"). The RAP shall include:

A. Design and construction details for the remedial alternative selected;

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B. Operational details of the remedial action;

C. QA/QC and safety plans; and

D. Proposed methodology for evaluation of the site status after the remedial action is complete to verify accomplishment of the goals of the RAP.

18. Remedial tasks shall be designed to achieve cleanup of the contaminated areas to levels that meet the water quality standards and criteria established by the Department, or such other levels as may be set forth in the FS Report, if done.

19. The Department shall review the proposed RAP and provide Respondent with a written response to the proposal. Respondent shall not implement the RAP until Respondent receives written notification from the Department that the RAP has been approved.

20. In the event that additional information is necessary for the Department to evaluate the RAP, the Department shall make a written request to Respondent for the information, and Respondent shall provide all requested information in writing to the Department within 20 days from receipt of said request unless the requested information requires additional field work in which case the Respondent shall submit in writing to the Department a reasonable schedule for completing the field work needed to provide the requested information.

21. In the event that the Department determines that the RAP submitted by the Respondent does not adequately address the objectives set forth in paragraphs 17 and 18, the Department will notify the Respondent in writing of the RAP's deficiencies. The Respondent shall then have 20 days from the Department's notification to resubmit a modified RAP addressing the deficiencies noted by the Department.

22. If the Department determines upon review of the resubmitted RAP that the RAP still does not adequately address the objectives of the RAP, the Department, at its option, may chose to either:

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A. Draft specific modifications to the RAP and notify the Respondent in writing that the Department's modifications shall be incorporated into the RAP; or

B. Notify the Respondent that Respondent has failed to comply with the paragraph 21 above, in which case the Department may do any or all of the following: take legal action to enforce compliance, file suit to recover damages and civil penalties, or complete the corrective actions outlined herein and recover the costs of completion from Respondent.

23. Once a RAP has been approved by the Department, it shall become effective and shall be implemented within ten days of the Department's notification to the Respondent that the RAP has been approved. The RAP shall incorporate all required modifications to the RAP identified by the Department.

24. On the first working day of each month, after beginning implementation of a CAP, FSP or RAP, Respondent shall submit written progress reports to the Department. These progress reports shall describe the status of each required CAP, FSP and RAP task. The reports shall be submitted until planned tasks have been completed to the satisfaction of the Department.

25. Respondent shall provide written notification to the Department at least ten days prior to installing monitoring or recovery wells, and shall allow Department personnel the opportunity to observe the location and installation of the wells. All necessary approvals must be obtained from the Water Management District before Respondent installs the wells.

26. Respondent shall provide written notification to the Department at least ten days prior to any sampling, and shall allow Department personnel the opportunity to observe sampling or to take split samples. Raw data shall be exchanged between the Respondent and the Department as soon as the data are available.

27. If any event occurs which causes delay or the reasonable likelihood of delay in the achievement of the requirements of these Corrective Actions, Respondent shall have the burden of

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proving that the delay was or will be caused by circumstances beyond the reasonable control of Respondent, and could not have been or cannot be overcome by due diligence. Upon occurrence of the event Respondent shall promptly notify the Departmnent verbally and shall, within seven calendar days, notify the Department in writing of the anticipated length and cause of delay, the measures taken or to be taken to prevent or minimize the delay, and the timetable by which Respondent intends to implement these measures. If the parties can agree that the delay or anticipated delay has been or will be caused by circumstances beyond the reasonable control of Respondent, the time for performance hereunder shall be extended for a period equal to the delay resulting from such circumstances. Such agreement shall be confirmed by letter from the Department accepting or if necessary modifying the extension request. Respondent shall adopt all reasonable measures necessary to avoid or minimize delay. Failure of Respondent to comply with the notice requirements of this paragraph shall constitute a waiver of Respondent's right to request an extension of time to complete the requirements of these Corrective Actions. Increased costs of performance of any of the activities set forth in these Corrective Actions or changed economic circumstances shall not be considered circumstances beyond the control of Respondent.

28. Respondent shall immediately notify the Department of any problems encountered by Respondent which require modification of any task in the approved CAP, FSP or RAP, and obtain Department approval prior to implementing any such modified tasks.

29. All sampling and analysis required under these Corrective Actions shall be accomplished pursuant to the following procedures:

A. All sampling shall be done in the manner consistent with Standard Operation Procedures and Quality Assurance Manual, August 1980, U.S. Environmental Protection Agency, Region IV, and Supplement "A" thereto, June, 1981, FDER;

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B. All laboratory data submitted shall contain a complete explanation of quality control procedures used to guarantee the reliability and accuracy of analytical data, and those laboratory procedures used shall be those approved by the Department. The test methods to be used in analyzing any parameters shall be the EPA approved test methods for the specific parameter to be analyzed unless otherwise notified by the Department;

C. All field testing, sample collection and preservation, and laboratory testing, including quality control procedures, shall be in accordance with the QA/QC plan approved by the Department.

30. Should the Department conclude that cleanup of the contaminated area to levels meeting the standards and criteria set forth in Chapter 17-3, Florida Administrative Code, is not feasible, or should Respondent not completely implement the RAP as approved by the Department, the Department may seek restitution from Respondent for environmental damages resulting from pollution of the groundwater as a result of Respondent's actions. Within 20 days of receipt of Department notification of its intent to seek said restitution, Respondent may pay the amount of the damages or may, if it so chooses, initiate negotiations with the Department regarding the monetary terms of restitution to the State. Respondent is aware that should a negotiated sum or other compensation for environmental damages not be agreed to by the Department and Respondent within 20 days of receipt of Department notification of its intent to seek restitution, the Department may institute appropriate action, either administrative, through a Notice of Violation, or judicial, in a court of competent jurisdiction through a civil complaint, to recover Department assessed environmental damages pursuant to Section 403.141, Florida Statutes.

DRAFT

RR
HW-3

ENFORCEMENT TRACKING
FINAL 3-31-87 SB

INITIAL	DATE
TCOZ	3/31/87
PAW	4/1/87
MW	4/10/87
RER	4/13/87 Cert. mail

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION, Complainant, vs. CITY OF CORAL SPRINGS and CORAL RIDGE PROPERTIES, INC., Respondents.	IN THE OFFICE OF THE SOUTHEAST FLORIDA DISTRICT OGC Case No. 87-0269

NOTICE OF VIOLATION AND
ORDERS FOR CORRECTIVE ACTION

TO: The Honorable Mr. O. B. Greiger, Mayor
City Commission
City of Coral Springs
9551 West Sample Road
Coral Springs, Florida 33065

Certified Mail Number _____

Mr. W. Buntemeyer
President and Registered Agent
Coral Ridge Properties, Inc.
3300 University Drive
Coral Springs, Florida 33065

Certified Mail Number _____

Pursuant to the authority of Section 403.121(2), Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Rule 17-103.110(1), the State of Florida Department of Environmental Regulation ("Department") gives notice to the City of Coral Springs ("Respondent Coral Springs") and Coral Ridge Properties, Inc. ("Respondent Coral Ridge") of the following findings of fact and conclusions of law with respect to violations of Chapter 403, F.S., and F.A.C. Title 17.

FINDINGS OF FACT

PARAGRAPHS APPLICABLE TO ALL COUNTS

1. The Department is the administrative agency of the State of Florida which has the authority to administer and enforce the provisions of Chapter 403, F.S., and the rules promulgated thereunder in F.A.C. Title 17.

DRAFT

ENFORCEMENT TRACKING
DRAFT 2/19/87 R. 3HW

INITIAL	DATE
TCOZ	2/19/87
PAW	3/3/87
AW	3/3/87
[illegible]	3/5/87
TDS	3/12/87

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION, Complainant, vs. CITY OF CORAL SPRINGS and CORAL RIDGE PROPERTIES, INC., Respondents.	IN THE OFFICE OF THE SOUTHEAST FLORIDA DISTRICT OGC Case No. 87- 0269

RECEIVED
MAR 19 1987
D.E.R. SO. FLA. DISTRICT

NOTICE OF VIOLATION AND
ORDERS FOR CORRECTIVE ACTION

TO: ~~City Commission~~ The Honorable Mr. O.B. Geiger, Mayor
City of Coral Springs → check
9551 West Sample Road → serve on mayor
Coral Springs, Florida 33065

Certified Mail Number _____

Mr. W. Buntemeyer
President and Registered Agent
Coral Ridge Properties, Inc.
3300 University Drive
Coral Springs, Florida 33065

Certified Mail Number _____

Q ~~Are A~~ Are they eligible for general permit? A. No.

Pursuant to the authority of Section 403.121(2), Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Rule 17-103.110(1), the State of Florida Department of Environmental Regulation ("Department") gives notice to the City of Coral Springs ~~check~~ ("Respondent Coral Springs") and Coral Ridge Properties, Inc. ("Respondent Coral Ridge") of the following findings of fact and conclusions of law with respect to violations of Chapter 403, F.S., and F.A.C. Title 17.

FINDINGS OF FACT

PARAGRAPHS APPLICABLE TO ALL COUNTS

1. The Department is the administrative agency of the State of Florida which has the authority to administer and enforce the provisions of Chapter 403, F.S., and the rules promulgated thereunder in F.A.C. Title 17.

DRAFT

PENALTY ASSESSMENT SUMMARY FORM

TO: File

SUBJECT: Penalty Assessment Calculations

CASE NAME: City of Coral Springs / Transfer Station

DATE: 4/10/87

****

Committee Members: R. Walsh
P. Wierzbicki
T Coyzie
J. Van Arman

****

Violation #	Potential for Harm	Extent of Deviation	Adjustments	Total Penalty
all ~~Moderate~~	Moderate	Major	+20%	$4680

TOTAL PENALTY ASSESSMENT: $4680

DRAFT

PENALTY ASSESSMENT WORK SHEET

CASE AREA: S.W.

CASE NAME: City of Coral Springs / Transfer Station

REGULATION VIOLATED: Operating a Transfer Station w/out Permit

Assessments for each violation should be determined on separate worksheets and totalled on the Penalty Assessment Summary Form.

****

Part I - Seriousness of Violation Penalty

1. Potential for Harm: Moderate
2. Extent of Deviation: Major

(Note matrix cell range and adjustments)

3. Penalty amount chosen: $3900
4. Per-day assessment: _____

****

Part II - Penalty Adjustments

	Percent Change	Dollar Amount
1. Good faith efforts:	_____	_____
2. Degree of willfulness and/or negligence:	+20%	780
3. History of non-compliance:	_____	_____
4. Unique factors:	_____	_____

****

5. Adjusted per-day penalty (Part I, Line 4 and Part II, Lines 1 - 4):		_____
6. Number of days in Violation:	_____	
7. Multi-day penalty (Line 5 X Line 6):		_____
8. Economic benefit of Non-compliance:		_____
9. Total (Lines 7 + 8):		_____
10. Ability to pay adjustment:		_____

****

TOTAL PENALTY AMOUNT $4680

****

Potential for Harm Justification:

****

Extent of Deviation Justification:

****

Justification for Penalty Adjustments:

Continued operating after notification

****

Matrix Cell Ranges — Extent of Deviation from Requirement

Potential for Harm	Major	Moderate	Minor
Major	$10,000 to $ 8,000	$7,999 to $6,000	$5,999 to $4,600
Moderate	$ 4,599 to $ 3,200	$3,199 to $2,000	$1,999 to $1,200
Minor	$ 1,199 to $ 600	$ 599 to $ 200	$ 199 to $ 100

****

REVISIONS OF PENALTY

Justification for Revisions:

Potential for Harm: _____

Extent of Deviation: _____

TOTAL REVISED PENALTY: _____

****

DRAFT

Darlene — Please send to WPB

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

DISTRICT ROUTING SLIP

RECEIVED

TO: Rich Walesky from Cozzie DATE: 3-12-1987

			C.C. TO:
	PENSACOLA	NORTHWEST DISTRICT	
	PANAMA CITY	Northwest District Branch Office	
	TALLAHASSEE	Northwest District Branch Office	
	TAMPA	SOUTHWEST DISTRICT	
	ORLANDO	ST. JOHNS RIVER DISTRICT	
	JACKSONVILLE	NORTHEAST DISTRICT	
	GAINESVILLE	Northeast District Branch Office	
✓	FORT MYERS	SOUTH FLORIDA DISTRICT	
	PUNTA GORDA	South Florida District Branch Office	
	MARATHON	South Florida District Branch Office	
✓	WEST PALM BEACH	SOUTHEAST FLORIDA DISTRICT	
	PORT ST. LUCIE	Southeast Florida Subdistrict	

Reply Optional ☐ Date Due: _____ Reply Required ☐ Date Due: _____ Info. Only ☐

COMMENTS: Looks ok — but I am interested in what City of Coral Springs position is — Plase let me know.

FROM: Gail Sinks TEL.: 278-9730

DRAFT

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

DISTRICT ROUTING SLIP

TO: Scott Benyon DATE: 3/9/87

C.C. TO:

	PENSACOLA	NORTHWEST DISTRICT	
	PANAMA CITY	Northwest District Branch Office	
	TALLAHASSEE	Northwest District Branch Office	
	TAMPA	SOUTHWEST DISTRICT	
	ORLANDO	ST. JOHNS RIVER DISTRICT	
	JACKSONVILLE	NORTHEAST DISTRICT	
	GAINESVILLE	Northeast District Branch Office	
	FORT MYERS	SOUTH FLORIDA DISTRICT	
	PUNTA GORDA	South Florida District Branch Office	
	MARATHON	South Florida District Branch Office	
✓	WEST PALM BEACH	SOUTHEAST FLORIDA DISTRICT	
	PORT ST. LUCIE	Southeast Florida Subdistrict	

Reply Optional ☐ Date Due: _____ Reply Required ☐ Date Due: _____ Info. Only ☐

COMMENTS:

FROM: OGC TEL.: SC 278-9730

DRAFT

→ PW → TC
PW 3/13/87

OFFICE OF GENERAL COUNSEL
NOTIFICATION OF CASE ASSIGNMENT/TRACKING SYSTEM ENTRY

ASSIGNMENT DATE: 3-05-87

REASSIGNMENT DATE: _____

OGC FILE NO.: 87-0269

RECEIVED
MAR 11 1987
Dept. of Environmental Reg.
West Palm Beach

TO: DAVID CROWLEY

THROUGH:

FROM: LARRY MORGAN

THE BELOW REFERENCED CASE HAS BEEN ASSIGNED/REASSIGNED TO YOU. PLEASE HANDLE. ALL FURTHER INQUIRIES FROM DEPARTMENT STAFF WILL BE DIRECTED TO YOU.

cc: District Manager
Staff Assistant

CASE NAME: DER vs. CITY OF CORAL SPRINGS and CORAL RIDGE PROPERTIES, INC.

MODE: E PROGRAM(S): SW / / / / /

DISTRICT: SEFD COUNTY: BROWARD (06)

PERMIT/APPLICATION/FACILITY ID #: _____

Petition for Administrative Hearing Received: _____

Request for Extension of Time to File Petition for Administrative Hearing Received: _____

Draft Consent Order Received: _____

Draft N.O.V. Received: 3-04-87

Case Report Received: _____

Other: _____ _____

Revised January 1986

DRAFT

3-23-87 H

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

LEGAL CASE TRACKING SYSTEM
ENFORCEMENT CASE ENTRY FORM

TO: Larry Morgan, Office of General Counsel

THROUGH: Richard Walesky, SEFD Enforcement Head

FROM: Tom Cozzie, SEFD

DATE: 3/3/87

This form accompanied by:

____ Draft Consent Order
__X__ Draft N.O.V.
____ Case Report

The following information may be used for entry in the Legal Case Tracking System.

Case Name: CORAL SPRINGS TRANSFER STATION
Alias Name:
District Contact: Tom Cozzie County: BROWARD
Program Area: SW
2nd Program Area:
Permit/Application Number:
Facility ID Number:
Comments: PCAP, CAP/RAP to be attached.

---------- FOR OGC USE ONLY ----------

OGC Number: Date Case Opened:
OGC ATTORNEY ASSIGNED

Send Copies To:

__X__ Originator
____ Bureau of Groundwater Protection and Waste Management
____ Bureau of Operations
____ Bureau of Air Quality Management
____ Bureau of Water Quality Management
____ Bureau of Permitting
____ Mr. Ron Silver, U.S. Army Corps. of Engineers
____ Ecological Review Section
____ Charles Horne, Bureau of State Lands Management

DRAFT

P 402 790 932

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to Mr. W. Buntemeyer	
Street and No. 3300 University Drive	
P.O. State and ZIP Code Coral Springs, FL 33065	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date 4/13/87 Coral Ridge Properties OGC# 87-0269-NOV REW: tclo ENF.	

PS Form 380[illegible] June 1985

★ U.S.G.P.O. 1985-480-79

DRAFT

UNITED STATES POSTAL SERVICE

OFFICIAL BUSINESS

SENDER INSTRUCTIONS

Print your name, address, and ZIP Code in the space below.

- Complete items 1, 2, 3, and 4 on the reverse.
- Attach to front of article if space permits, otherwise affix to back of article.
- Endorse article "Return Receipt Requested" adjacent to number.

RECEIVED

APR 15 1987

Dept. of Environmental Reg.
West Palm Beach

U.S.MAIL

PENALTY FOR PRIVATE USE, $300

RETURN TO

Print Sender's name, address, and ZIP Code in the space below.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
1900 SOUTH CONGRESS AVE., SUITE A
WEST PALM BEACH, FL 33406

DRAFT

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery.

3. Article Addressed to:

Mr. W. Buntemeyer
President & Registered Agent
Coral Ridge Properties, Inc.
3300 University Drive
Coral Springs, FL 33065

4. Article Number
P 402 790 932

Type of Service: M

☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee
X

6. Signature – Agent
X

7. Date of Deli
4-14-87

8. Addressee's Address *(ONLY if requested and fee paid)*

PS Form 3811, Feb. 1986 DOMESTIC RETURN RECEIPT

DRAFT

P 402 790 933

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

Sent to
Mr. O. B. Geiger, Mayor
Street and No.
9551 W. Sample Road
P.O., State and ZIP Code
Coral Springs, FL 33065

Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date 4/13/87.	

City of Coral Springs
OGC # 87-0269 - NOV
REV: tcb ENF.

PS Form 3800, June 1985 * U.S.G.P.O. 1985-480-78

DRAFT

UNITED STATES POSTAL SERVICE
OFFICIAL BUSINESS

SENDER INSTRUCTIONS
Print your name, address, and ZIP Code in the space below.
- Complete items 1, 2, 3, and 4 on the reverse.
- Attach to front of article if space permits, otherwise affix to back of article.
- Endorse article "Return Receipt Requested" adjacent to number.

U.S.MAIL

PENALTY FOR PRIVATE USE, $300

RETURN TO

Print Sender's name, address, and ZIP Code in the space below.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
1900 SOUTH CONGRESS AVE., SUITE A
WEST PALM BEACH, FL 33406

RECEIVED
APR 15 1987
Dept. of Environmental Reg.
West Palm Beach

DRAFT

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery.

3. Article Addressed to:

Honorable O. B. Geiger, Mayor
City Commission
City of Coral Springs
9551 West Sample Road
Coral Springs, FL 33065

4. Article Number

P 402 790 933

Type of Service:

☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee

X

6. Signature — Agent

X Pat Pierce

7. Date of Deli

7-14-87

8. Addressee's Address *(ONLY if requested and fee paid)*

DRAFT

PS Form 3811, Feb. 1986 DOMESTIC RETURN RECEIPT

INTEROFFICE MEMORANDUM

TO: Rich Walesky, Enforcement Chief, SEF District

FROM: Joe Lurix, Permitting Section, SEF District

THRU: Don White, Permitting Section Head, SEF District

DATE: January 20, 1987

SUBJ: Coral Springs Transfer Station

REFE: Case Report Documentation

A. Type of Violation

Solid Waste

B. Date case report submitted to enforcement

January 20, 1987

C. Name of investigator preparing case report

Joe Lurix, Environmental Specialist II

D. Narrative account of the nature of the violation including

1. chronological order of the facts establishing the violation;

On October 8, 1986, an investigation was conducted at 39 street and Sawgrass Expressway, Coral Springs in reference to an anonymous complaint filed against the City of Coral Springs. The complainant alleged that the city was operating a solid waste transfer station without the benefit of a department permit. The inspection revealed that the city was in violation as alleged pursuant to 17-7.091(1)(2), FAC. A letter was sent on November 4, 1986 to the city advising them to bring this situation into compliance within 30 days upon receipt of this letter. The city requested an informal meeting on November 21, 1986 at our office. Meeting documentation is attached. On December 29, 1986, the city responded to our letter. No formal action has been resolved by the city to date since they do not own the property.

2. the dates of the violation;

October 8, 1986

3. the names of the witnesses to the violation;

DRAFT

Joe Lurix

4. the names of those on site at the time of the violation;

Joe Lurix - FDER
John Chase - BCEQCB
Site operator of the city (name withheld by employee)

5. a brief history of past violations by the same person or source;

unknown

6. an account of the actions taken by the district staff to remedy the violation;

A letter was sent on November 4, 1986 and an informal meeting was held on November 21, 1986.

7. a brief account of adverse environmental impacts expected to result from the violation and any other pertinent information. Attach all pertinent documents or reference by date and file location.

Potential for ground water contamination due to the disposal of solid wastes on top of an old existing landfill operated by the City of Coral Springs in the 1970's.

E. List all actions necessary to correct the violation(s)

1. The city needs to obtain property ownership of the site or a lease of the property from the landowner which delineates who is the responsible partie(s) for the operation;

2. Submit signed and sealed plans for the construction of a transfer station;

3. Submit a ground water monitoring plan for the impact of this operation over an existing landfill. Be advised that the Sawgrass Expressway runs through the western portion of the old landfill. This landfill was abandoned in the early 1970's by the city and was not closed out properly. However, we cannot take enforcement action on the landfill pursuant to Dan Thompson unless we show a violation of a drinking water standard at a compliance well.

4. Either be in compliance with 17-7.091(1)(2) or 17-76.091(3) FAC. The latter reference states that if all solid

DRAFT

wastes are deposited directly into roll-off containers, then this operation is exempt from permitting. This was mentioned to the city in our November 21, 1986 meeting.

F. List the legal name of the violator or violators including a corporation printout

Mr. Don Swets, Director of Public Works
City of Coral Springs
9551 West Sample Road
Coral Springs, Florida 33065

G. List the complete street address of the violator and a post office box number

Same as above

H. List the county where the violation is taking place

Broward

I. List the address and location

N.W. 39 Street and N.W. 126 Avenue
Coral Springs

J. Legal description or deed

none available

K. Township Section Range

Township 48 S - Section 19 - Range 41 E

L. Full legal name and address of property owner

Coral Ridge Properties/ Florida National Properties
(no other info available at this time)

M. Owner's address

not available at this time

N. Summary of Violations (FS and FAC)

17-4.54, FAC
17-4.61, FAC
17-7.091(1)(2), FAC

O. Accounting costs and expenses

Joe Lurix ES II 6 hours

DRAFT

Travel 80 miles

P. Pertinent attachments

Exhibit A - November 4, 1986 DER letter

Exhibit B - November 21, 1986 meeting documentation

Exhibit C - December 29, 1986 City response

Q. The information contained in this case report is complete and accurate to the best of my knowledge, information and belief:

Joe Lurst

Investigator

DRAFT

DEPARTMENT OF PUBLIC WORKS

CITY OF CORAL SPRINGS FLORIDA

9551 WEST SAMPLE ROAD
P.O. BOX 754501
CORAL SPRINGS, FL 33075-4501
Telephone: (305)-344-1165

RECEIVED
'86 DEC 31 AM 10 59

FLA. DEPARTMENT OF
ENVIRONMENTAL REG.
WEST PALM BEACH

December 29, 1986

Mr. Donald B. White, P.E.
Permitting Section Head
SE Florida District, DER
P. O. Box 3858
West Palm Beach, FL 33402-3858

RE: Transfer Station; 39th Street and Sawgrass Expressway; City of Coral Springs

Dear Mr. White:

Your letter of November 4, 1986 indicated that your Department had conducted an inspection, and found the City of Coral Springs to be in violation of the Florida Administrative Code for operating a waste transfer station without a general permit.

On Friday morning, November 21, 1986, Robert W. Glenn, P.E. and Richard W. Carlson of my staff and I met at your office in West Palm Beach with John Chase of the Broward County Environmental Quality Control Board, and Joseph W. Lurix and Tom Cozzle of your staff. At that time, we discussed the operation of our transfer station and the City's efforts that are being made to acquire land to build a conforming transfer station, for which a preliminary design has been prepared.

At the time of our meeting, the issue of land for a Regional Park, including the small parcel needed for the transfer station, was scheduled to be considered by the City Commission on December 2, 1986. At that meeting, the proposals were rejected, to be reconsidered at the December 16, 1986 meeting.

At the December 16 meeting, the issue was once again deferred for 30 days. (A Summary of the action is attached). It is still expected that favorable action will result in

EXHIBIT C

DRAFT

the needed land being acquired by the City of Coral Springs for the transfer station, in order that a conforming facility may be constructed in the very near future. We will keep you informed as to developments on this matter as they transpire.

Very truly yours,

DONALD H. SWETS, P.E.
Director of Public Works

DHS/lo
Att.

cc: Donald E. Sawyer, Deputy City Manager
Martin J. Hanna, Esq., Asst. City Attorney
Robert W. Glenn, P.E., Asst. Dir., Public Works
Noel J. Chin, P.E., City Engineer
Richard W. Carlson, Street Supt.
John Chase, Broward County Envir. Quality Control Bd.

DRAFT

b. REGIONAL PARK; Consideration of issues & acts relative to the land known as the Regional Park in the west one-half of Section 19 (Commissioner Gordon); ACTION: Commissioner Gordon asked this item be deferred for 30 days & indicated he would present a proposal at that time depending upon the Commission's action with regard to acceptance of the park acreage dedication for West Glen Plat. With respect to the borrow pit, he suggested & it was agreed if there is not a written commitment or substantive progress by Jan 6, 1987, the Commission look into a legal or other viable remedy. (Tape 1, Side 2, 20:42)

7. Department Heads:

8. New Business:

a. PARK DEDICATION FEES, SPRING LAKE AT CORAL SPRINGS PLAT; Proposed amendment to Resolution #86-66, approving the final plat of Spring Lake at Coral Springs, to reestablishing park dedication fees (PDC#3-SUB-86); ACTION: Resolution #86-194, amending Resolution #86-66 to reestablish the fees to $46,852, subject to adjustment each October based on the Implicit Price Deflator of the Gross National Product prepared by the US Dept of Commerce Bureau of Economic Analysis for the previous 12 months, was adopted. The City Attorney will draft the resolution for execution. (5-0) (Tape 1, Side 2, 25:31)

b. PARK DEDICATION FEES, CORAL SPRINGS BETTER HOMES; Proposed amendment to Resolution #85-5, approving the final plat of Coral Springs Better Homes, reestablishing park dedication fees (PDC#8-SUB-84); ACTION: Resolution #86-199, amending Resolution #85-5 to provide for an amount of $1,621.35 to be paid prior to issuance of any additional building permits or certificates of occupancy for any units within this plat, was adopted. The City Attorney will draft the resolution for execution. (4-1, Commissioner Sanders) (Tape 1, Side 2, 25:57)

c. PARKING REQUIREMENTS, FIRST PRESBYTERIAN CHURCH; Request of the First Presbyterian Church of Coral Springs for a Special Exception to the City's parking requirements (PDC#8-SE-86); ACTION: Resolution #86-195, approving the special exception, as amended to include one condition that the site shall have a minimum of 198 parking spaces, was adopted. The City Attorney will draft the resolution for execution. (5-0) (Tape 1, Side 2, 35:58)

d. FINAL PLAT APPROVAL, ROYAL PALM VILLAGE; Petition of Florida National Properties, Inc. for final plat approval of Royal Palm Village, a replat of portions of Tracts 27, 28, 29, 30 & 31, Section 21 (PDC#13-SUB-86); ACTION: The City Attorney was requested to draft a resolution approving the petition in accordance with the agenda memorandum of Dec 11, 1986 for consideration at a Public Hearing set for Jan 20, 1987. The Petitioner asked a separate agenda item be listed for the Jan 20 meeting to consider acceptance of the letter from Mr. Roger

EXHIBIT B

Meeting Documentation 11-21-86

City of Coral Springs – Transfer Station

1. Coral Ridge Properties owner of Fla. Nat. Prop.
2. Wiles southside but not maybe to where transfer station upto 1977
3. Transfer station since 1976 operational
4. $100,000 in budget for construction & to purchase land
5. land issue hopefully resolved before end of 1986

CITY OF CORAL SPRINGS

DONALD H. SWETS, P.E.
DIRECTOR OF PUBLIC WORKS

9551 WEST SAMPLE ROAD
CORAL SPRINGS, FLORIDA 33065 TELEPHONE (305) 344-1165

CITY OF CORAL SPRINGS

ROBERT W. GLENN, P.E.
ASST. DIRECTOR OF PUBLIC WORKS

9551 WEST SAMPLE ROAD
CORAL SPRINGS, FLORIDA 33065 TELEPHONE (305) 344-1165

CITY OF CORAL SPRINGS

RICHARD W. CARLSON
STREETS SUPERINTENDENT

9551 WEST SAMPLE ROAD
CORAL SPRINGS, FLORIDA 33065 TELEPHONE (305) 344-1186

DRAFT

MEETING ATTENDANCE

DATE 11/21/86

COMPANIES ~~FDER~~ City of Coral Springs

AGENCIES DER

NAME	REPRESENTING	TELEPHONE NO.
Tom Cozzie	FDER - Enforcement	305 689-5800
Donald H. Swarts	City of Coral Springs - Dir. P.W.	305 344-1165
DICK CARLSON	City of Coral Springs St. Super.	305-344-1181
ROBERT W GLENN	City of CORAL SPRINGS ASST. DIR PW	" 1164
JOHN CHASE	BROWARD COUNTY EQCB	305 765 5881
JOE LURIX	F.D.E.R.	305/689-5800

DRAFT

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

12-13-86

SOUTHEAST FLORIDA
DISTRICT

P.O. BOX 3858
3301 GUN CLUB ROAD
WEST PALM BEACH, FLORIDA 33402-3858

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

J. SCOTT BENYON
DISTRICT MANAGER

November 4, 1986

Broward County
SW-City of Coral Springs
Transfer Station

Mr. Don Swets, Director of Public Works
City of Coral Springs
9551 West Sample Road
Coral Springs, Florida 33065

Dear Mr. Swets:

RE: Transfer Station
39 Street and Sawgrass Expressway
City of Coral Springs

On October 8, 1986, an investigation was conducted at your facility pursuant to a complaint received by this department. The complainant alleged that the City of Coral Springs was operating a solid waste transfer station in violation of department rules and without the benefit of a department permit. The investigation revealed that the city is operating a transfer station as defined in Section 17-7.020(64), Florida Administrative Code (F.A.C.). In addition, the city is in violation of Sections 17-7.091(1)(2) and 17-4.61, F.A.C. for operating a transfer station without a general permit. Enclosed are copies of Chapters 17-4 and 17-7 F.A.C. for your perusal. You are hereby advised to bring your facility into compliance within thirty (30) days upon receipt of this letter. Failure to do so will result in enforcement action being sought against the city.

Should you have any questions, please contact Mr. Joe Lurix of this office at telephone number 305/689-5800.

Sincerely,

Donald B. White

Donald B. White, P.E.
Permitting Section Head

DBW:jl:lp

Enclosures

cc: Broward County Environmental Quality Control Board

EXHIBIT A

DRAFT

BROWARD COUNTY ENVIRONMENTAL QUALITY CONTROL BOARD

500 SW 14th Court
Fort Lauderdale, Florida 33315
(305) 765-5881

RECEIVED
'86 JAN 16 PM 2 05
FLORIDA DEPARTMENT

NO. 4046

NOTICE OF VIOLATION AND NOTICE OF HEARING TO ASSESS A CIVIL PENALTY

The undersigned certifies that he has just and reasonable grounds to believe and does believe that:

on the 8 day of January 19 86, at 1515 ~~A.M.~~ P.M.

ISSUED TO: Mr. William N. Brady, City Manager

RESPONDENT: City of Coral Springs

Resident Address: 9551 West Sample Road (City Hall)

City and State: Coral Springs, Fl. 33065

AT THE FOLLOWING LOCATION Coral Springs Solid Waste Transfer Station at N.W. 127 Avenue & N.W. 39 Street

IN: Coral Springs (City) Broward (County) Florida (State)

Did: "...License applications - construction/operation..." (Operating without permit).

In Violation of:

[X] § 27-3.40 Code of Regulations of the Broward County Environmental Quality Control Board.

[ ] § _____ Florida Department of Environmental Regulation Rule

Victor N. Howard, P.E.
Pollution Control Officer

BY: P.R. Shelton 873
I.D. No.

TITLE: Environmental Compliance Officer I/Enforcement

1) Date of mailing by Certified Mail, No. P284 372 498, 1/13/86

2) Date of Personal Service _____ _____ A.M. P.M.
Time

Hearing Information:

There will be a hearing held before the Broward County Environmental Quality Control Board or its duly appointed Hearing Examiner, at Nova University Law School, fifth floor, 3100 SW 9 Ave. Ft. Lauderdale, 10:00 Am. on March 7, 1986. You may appear and present defenses to the Violation charged. The Hearing will take place whether or not you appear unless you make prior arrangements for a continuance pursuant to Section 27-2.20 of the Code of Regulations of the Broward County Environmental Quality Control Board. You may be represented by an attorney at the Hearing. After hearing the evidence, the Board may assess a Civil Penalty of up to $10,000.00 per offense and may assess the costs of the Hearing. If this violation has been corrected, you may request a settlement conference at least five (5) days prior to the scheduled Hearing to agree on the amount of penalty and costs to be assessed. The settlement conference may be arranged by contacting the Enforcement Office.

DRAFT

mw → JH
jnh

BROWARD COUNTY ENVIRONMENTAL QUALITY CONTROL BOARD

RECEIVED
86 JAN 16 PM 2 05
FLORIDA DEPARTMENT OF ENVIRONMENTAL REG

500 SW 14th Court
Fort Lauderdale, Florida 33315
(305) 765-5881

NO. 4047

NOTICE OF VIOLATION AND NOTICE OF HEARING TO ASSESS A CIVIL PENALTY

The undersigned certifies that he has just and reasonable grounds to believe and does believe that:

on the 8 day of January 19 86, at 1520 ~~XXMX~~ P.M.

ISSUED TO: Mr. William N. Brady, City Manager

RESPONDENT: City of Coral Springs

Resident Address: 9551 West Sample Road (City Hall)

City and State: Coral Springs, Florida 33065

AT THE FOLLOWING LOCATION Coral Springs Solid Waste Transfer Station at N.W. 127 Avenue & N.W. 39 Street

IN: Coral Springs (City) Broward (County) Florida (State)

Did: "...Throw, discard, or suffer, allow to be thrown, discarded solid waste onto lands of Broward County..."

In Violation of:

[X] § 27-6.04 (1) Code of Regulations of the Broward County Environmental Quality Control Board.

[ ] § _____ Florida Department of Environmental Regulation Rule

Victor N. Howard, P.E.
Pollution Control Officer

BY: P.R. Shelton 873
I.D. No.

TITLE: Environmental Compliance Officer I/Enforcement

1) Date of mailing by Certified Mail, No. P284 372 498, 1/13/86

2) Date of Personal Service _____ _____ A.M. P.M.
Time

Hearing Information:

There will be a hearing held before the Broward County Environmental Quality Control Board or its duly appointed Hearing Examiner, at Nova University Law School, fifth floor, 3100 SW 9 Ave. Ft. Lauderdale, 10:00 Am. on March 7, 1986. You may appear and present defenses to the Violation charged. The Hearing will take place whether or not you appear unless you make prior arrangements for a continuance pursuant to Section 27-2.20 of the Code of Regulations of the Broward County Environmental Quality Control Board. You may be represented by an attorney at the Hearing. After hearing the evidence, the Board may assess a Civil Penalty of up to $10,000.00 per offense and may assess the costs of the Hearing. If this violation has been corrected, you may request a settlement conference at least five (5) days prior to the scheduled Hearing to agree on the amount of penalty and costs to be assessed. The settlement conference may be arranged by contacting the Enforcement Office.

DRAFT

DEPARTMENT OF PUBLIC WORKS

CITY OF CORAL SPRINGS FLORIDA

9551 WEST SAMPLE ROAD
P.O. BOX 754501
CORAL SPRINGS, FL 33075-4501
Telephone: (305)-344-1165

RECEIVED
'86 DEC 31 AM 10 59

FLA. DEPARTMENT OF
ENVIRONMENTAL REG.
WEST PALM BEACH

December 29, 1986

Mr. Donald B. White, P.E.
Permitting Section Head
SE Florida District, DER
P. O. Box 3858
West Palm Beach, FL 33402-3858

RE: Transfer Station; 39th Street and Sawgrass Expressway; City of Coral Springs

Dear Mr. White:

Your letter of November 4, 1986 indicated that your Department had conducted an inspection, and found the City of Coral Springs to be in violation of the Florida Administrative Code for operating a waste transfer station without a general permit.

On Friday morning, November 21, 1986, Robert W. Glenn, P.E. and Richard W. Carlson of my staff and I met at your office in West Palm Beach with John Chase of the Broward County Environmental Quality Control Board, and Joseph W. Lurix and Tom Cozzle of your staff. At that time, we discussed the operation of our transfer station and the City's efforts that are being made to acquire land to build a conforming transfer station, for which a preliminary design has been prepared.

At the time of our meeting, the issue of land for a Regional Park, including the small parcel needed for the transfer station, was scheduled to be considered by the City Commission on December 2, 1986. At that meeting, the proposals were rejected, to be reconsidered at the December 16, 1986 meeting.

At the December 16 meeting, the issue was once again deferred for 30 days. (A Summary of the action is attached). It is still expected that favorable action will result in

DRAFT

the needed land being acquired by the City of Coral Springs for the transfer station, in order that a conforming facility may be constructed in the very near future. We will keep you informed as to developments on this matter as they transpire.

Very truly yours,

DONALD H. SWETS, P.E.
Director of Public Works

DHS/lo
Att.

cc: Donald E. Sawyer, Deputy City Manager
Martin J. Hanna, Esq., Asst. City Attorney
Robert W. Glenn, P.E., Asst. Dir., Public Works
Noel J. Chin, P.E., City Engineer
Richard W. Carlson, Street Supt.
John Chase, Broward County Envir. Quality Control Bd.

DRAFT

b. REGIONAL PARK; Consideration of issues & acts relative to the land known as the Regional Park in the west one-half of Section 19 (Commissioner Gordon); ACTION: Commissioner Gordon asked this item be deferred for 30 days & indicated he would present a proposal at that time depending upon the Commission's action with regard to acceptance of the park acreage dedication for West Glen Plat. With respect to the borrow pit, he suggested & it was agreed if there is not a written commitment or substantive progress by Jan 6, 1987, the Commission look into a legal or other viable remedy. (Tape 1, Side 2, 20:42)

7. Department Heads:
8. New Business:

a. PARK DEDICATION FEES, SPRING LAKE AT CORAL SPRINGS PLAT; Proposed amendment to Resolution #86-66, approving the final plat of Spring Lake at Coral Springs, to reestablishing park dedication fees (PDC#3-SUB-86); ACTION: Resolution #86-194, amending Resolution #86-66 to reestablish the fees to $46,852, subject to adjustment each October based on the Implicit Price Deflator of the Gross National Product prepared by the US Dept of Commerce Bureau of Economic Analysis for the previous 12 months, was adopted. The City Attorney will draft the resolution for execution. (5-0) (Tape 1, Side 2, 25:31)

b. PARK DEDICATION FEES, CORAL SPRINGS BETTER HOMES; Proposed amendment to Resolution #85-5, approving the final plat of Coral Springs Better Homes, reestablishing park dedication fees (PDC#8-SUB-84); ACTION: Resolution #86-199, amending Resolution #85-5 to provide for an amount of $1,621.35 to be paid prior to issuance of any additional building permits or certificates of occupancy for any units within this plat, was adopted. The City Attorney will draft the resolution for execution. (4-1, Commissioner Sanders) (Tape 1, Side 2, 25:57)

c. PARKING REQUIREMENTS, FIRST PRESBYTERIAN CHURCH; Request of the First Presbyterian Church of Coral Springs for a Special Exception to the City's parking requirements (PDC#8-SE-86); ACTION: Resolution #86-195, approving the special exception, as amended to include one condition that the site shall have a minimum of 198 parking spaces, was adopted. The City Attorney will draft the resolution for execution. (5-0) (Tape 1, Side 2, 35:58)

d. FINAL PLAT APPROVAL, ROYAL PALM VILLAGE; Petition of Florida National Properties, Inc. for final plat approval of Royal Palm Village, a replat of portions of Tracts 27, 28, 29, 30 & 31, Section 21 (PDC#13-SUB-86); ACTION: The City Attorney was requested to draft a resolution approving the petition in accordance with the agenda memorandum of Dec 11, 1986 for consideration at a Public Hearing set for Jan 20, 1987. The Petitioner asked a separate agenda item be listed for the Jan 20 meeting to consider acceptance of the Petitioner's offer contained in a letter from Mr. Roger Dyess, dated Dec 11, 1986, to provide fill for the Royal

DRAFT

MEETING ATTENDANCE

DATE 11/21/86

COMPANIES ~~FDER~~ City of Coral Springs

AGENCIES DER

NAME	REPRESENTING	TELEPHONE NO.
Tom Cozzie	FDER - Enforcement	305 689-5800
Donald H. Swarts	City of Coral Springs - Dir. P.W.	305 344-1165
DICK CARLSON	City of Coral Springs St. Super.	305-344-1181
ROBERT W GLENN	City of Coral Springs Asst. Dir PW	" 1164
JOHN CHASE	BROWARD COUNTY EQCB	305 765 5881
JOE LURIX	F.D.E.P.	305/689-5800

DRAFT

attendance

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

12-13-86

SOUTHEAST FLORIDA
DISTRICT

P.O. BOX 3858
3301 GUN CLUB ROAD
WEST PALM BEACH, FLORIDA 33402-3858

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

J. SCOTT BENYON
DISTRICT MANAGER

November 4, 1986

Broward County
SW-City of Coral Springs
Transfer Station

Mr. Don Swets, Director of Public Works
City of Coral Springs
9551 West Sample Road
Coral Springs, Florida 33065

Dear Mr. Swets:

RE: Transfer Station
39 Street and Sawgrass Expressway
City of Coral Springs

On October 8, 1986, an investigation was conducted at your facility pursuant to a complaint received by this department. The complainant alleged that the City of Coral Springs was operating a solid waste transfer station in violation of department rules and without the benefit of a department permit. The investigation revealed that the city is operating a transfer station as defined in Section 17-7.020(64), Florida Administrative Code (F.A.C.). In addition, the city is in violation of Sections 17-7.091(1)(2) and 17-4.61, F.A.C. for operating a transfer station without a general permit. Enclosed are copies of Chapters 17-4 and 17-7 F.A.C. for your perusal. You are hereby advised to bring your facility into compliance within thirty (30) days upon receipt of this letter. Failure to do so will result in enforcement action being sought against the city.

Should you have any questions, please contact Mr. Joe Lurix of this office at telephone number 305/689-5800.

Sincerely,

Donald B. White

Donald B. White, P.E.
Permitting Section Head

DBW:jl:lp

Enclosures

cc: Broward County Environmental Quality Control Board

DRAFT

File

New File

INTEROFFICE MEMORANDUM

TO: Rich Walesky, Enforcement Chief, SEF District

FROM: Joe Lurix, Permitting Section, SEF District

THRU: Don White, Permitting Section Head, SEF District

DATE: January 20, 1987

SUBJ: Coral Springs Transfer Station

REFE: Case Report Documentation

A. Type of Violation

Solid Waste

B. Date case report submitted to enforcement

January 20, 1987

C. Name of investigator preparing case report

Joe Lurix, Environmental Specialist II

D. Narrative account of the nature of the violation including

1. chronological order of the facts establishing the violation;

On October 8, 1986, an investigation was conducted at 39 street and Sawgrass Expressway, Coral Springs in reference to an anonymous complaint filed against the City of Coral Springs. The complainant alleged that the city was operating a solid waste transfer station without the benefit of a department permit. The inspection revealed that the city was in violation as alleged pursuant to 17-7.091(1)(2), FAC. A letter was sent on November 4, 1986 to the city advising them to bring this situation into compliance within 30 days upon receipt of this letter. The city requested an informal meeting on November 21, 1986 at our office. Meeting documentation is attached. On December 29, 1986, the city responded to our letter. No formal action has been resolved by the city to date since they do not own the property.

2. the dates of the violation;

October 8, 1986

3. the names of the witnesses to the violation;

DRAFT

Joe Lurix

4. the names of those on site at the time of the violation;

Joe Lurix - FDER
John Chase - BCEQCB
Site operator of the city (name withheld by employee)

5. a brief history of past violations by the same person or source;

unknown

6. an account of the actions taken by the district staff to remedy the violation;

A letter was sent on November 4, 1986 and an informal meeting was held on November 21, 1986.

7. a brief account of adverse environmental impacts expected to result from the violation and any other pertinent information. Attach all pertinent documents or reference by date and file location.

Potential for ground water contamination due to the disposal of solid wastes on top of an old existing landfill operated by the City of Coral Springs in the 1970's.

E. List all actions necessary to correct the violation(s)

1. The city needs to obtain property ownership of the site or a lease of the property from the landowner which delineates who is the responsible partie(s) for the operation;

2. Submit signed and sealed plans for the construction of a transfer station;

3. Submit a ground water monitoring plan for the impact of this operation over an existing landfill. Be advised that the Sawgrass Expressway runs through the western portion of the old landfill. This landfill was abandoned in the early 1970's by the city and was not closed out properly. However, we cannot take enforcement action on the landfill pursuant to Dan Thompson unless we show a violation of a drinking water standard at a compliance well.

4. Either be in compliance with 17-7.091(1)(2) or 17-76.091(3) FAC. The latter reference states that if all solid

DRAFT

wastes are deposited directly into roll-off containers, then this operation is exempt from permitting. This was mentioned to the city in our November 21, 1986 meeting.

F. List the legal name of the violator or violators including a corporation printout

Mr. Don Swets, Director of Public Works
City of Coral Springs
9551 West Sample Road
Coral Springs, Florida 33065

G. List the complete street address of the violator and a post office box number

Same as above

H. List the county where the violation is taking place

Broward

I. List the address and location

N.W. 39 Street and N.W. 126 Avenue
Coral Springs

J. Legal description or deed

none available

K. Township Section Range

Township 48 S - Section 19 - Range 41 E

L. Full legal name and address of property owner

Coral Ridge Properties/ Florida National Properties
(no other info available at this time)

M. Owner's address

not available at this time

N. Summary of Violations (FS and FAC)

17-4.54, FAC
17-4.61, FAC
17-7.091(1)(2), FAC

O. Accounting costs and expenses

Joe Lurix ES II 6 hours

DRAFT

Travel 80 miles

P. Pertinent attachments

Exhibit A - November 4, 1986 DER letter

Exhibit B - November 21, 1986 meeting documentation

Exhibit C - December 29, 1986 City response

Q. The information contained in this case report is complete and accurate to the best of my knowledge, information and belief:

_____

Investigator

DRAFT

Meeting Documentation 11-21-86

City of Coral Springs — Transfer Station

1. Coral Ridge Properties owner or Fla. Nat. Prop.
2. Wiles southside but not maybe to where transfer station upto 1977
3. Transfer station since 1976 operational
4. $100,000 in budget for construction & to purchase land
5. land issue hopefully resolved before end of 1986

B.

CITY OF
CORAL SPRINGS

DONALD H. SWETS, P.E.
DIRECTOR OF PUBLIC WORKS

9551 WEST SAMPLE ROAD
CORAL SPRINGS, FLORIDA 33065 TELEPHONE (305) 344-1165

CITY OF
CORAL SPRINGS

ROBERT W. GLENN, P.E.
ASST. DIRECTOR OF PUBLIC WORKS

9551 WEST SAMPLE ROAD
CORAL SPRINGS, FLORIDA 33065 TELEPHONE (305) 344-1165

CITY OF
CORAL SPRINGS

RICHARD W. CARLSON
STREETS SUPERINTENDENT

9551 WEST SAMPLE ROAD
CORAL SPRINGS, FLORIDA 33065 TELEPHONE (305) 344-1186

CITY OF CORAL SPRINGS FLORIDA

9551 WEST SAMPLE ROAD
CORAL SPRINGS, FLORIDA 33065
TELEPHONE (305) 752-3410

June 15, 1977

S

DRAFT

Mr. Warren G. Strahm, Subdistrict Manager
Department of Environmental Regulation
Central and Southern District
3301 Gun Club Road
Post Office Box 3858
West Palm Beach, Florida 33402

RE: Monthly Report - May 1977
Sanitary Landfill - Permit #ST06-027

Dear Mr. Straham:

The following data is submitted on the operation of the Coral Springs Landfill for the month of April 1977.

Total Volume:	287 Cubic Yards
Type:	Trees, branches, yard trash, rocks, cardboard
Frequency:	7 Disposals/ day average

Sincerely,

G. Robert Grube
Director of Public Works

GRG/adr
CC: Broward County Environmental Quality Control Board

RECEIVED
JUN 21 1977
Dept. of Environmental Reg.
West Palm Beach

S

CITY OF CORAL SPRINGS FLORIDA

9551 WEST SAMPLE ROAD
CORAL SPRINGS, FLORIDA 33065
TELEPHONE (305) 752-3410

May 20, 1977

Mr. Warren G. Strahm, Subdistrict Manager
Department of Environmental Regulation
Central and Southern District
3301 Gun Club Road
Post Office Box 3858
West Palm Beach, Florida 33402

RE: Monthly Report - April 1977
Sanitary Landfill - Permit #ST06-027

Dear Mr. Straham:

The following data is submitted on the operation of the Coral Springs Landfill for the month of April 1977.

Total Volume:	462.6 Cubic Yards
Type:	Trees, branches, yard trash, rocks, cardboard
Frequency:	15 disposals/day average

Sincerely,

G. Robert Grube
Director of Public Works

GRG/adr
CC: Broward County Environmental Quality Control Board

RECEIVED
MAY 23 1977
Dept. of Environmental Reg.
West Palm Beach

DRAFT

5

CITY OF CORAL SPRINGS FLORIDA

9551 WEST SAMPLE ROAD
CORAL SPRINGS, FLORIDA 33065
TELEPHONE (305) 752-3410

April 12, 1977

DER-WPB	Copy ✓ Route # Action A		
DM		PFR.	DADE
SDM		ENF.	BROW.
FT.P.		T/A	P.B.CH.
AA		BAG	C. ED.

REMARKS:

Mr. Warren G. Strahm, Subdistrict Manager
Department of Environmental Regulation
Central and Southern District
3301 Gun Club Road
Post Office Box 3858
West Palm Beach, Florida 33402

RE: Monthly Report - March 1977,
Sanitary Landfill - Permit #ST06-027

Dear Mr. Straham:

The following data is submitted on the operation of the Coral Springs Landfill for the month of March 1977.

Total Volume:	435.5 Cubic Yards
Type:	Trees, branches, yard, trash, rocks, cardboard.
Frequency:	14 disposals/day average.

Sincerely,

G. Robert Grube
Director of Public Works

GRG/adr
CC: Broward County Environmental Quality Control Board

RECEIVED
APR 13 1977
Dept. of Environmental Reg.
West Palm Beach

DRAFT

5

CITY OF CORAL SPRINGS FLORIDA

9551 WEST SAMPLE ROAD
CORAL SPRINGS, FLORIDA 33065
TELEPHONE (305) 752-3410

March 15, 1977

DRAFT

Mr. Warren G. Strahm, Subdistrict Manager
Department of Environmental Regulation
Central and Southern District
3301 Gun Club Road
Post Office Box 3858
West Palm Beach, Florida 33402

RE: Monthly Report - February 1977,
Sanitary Landfill - Permit No. STo6-027

Dear Mr. Straham:

The following data is submitted on the operation of the Coral Springs Landfill for the period 24 - 28, February 1977. Reference my letter of February 25, 1977 on same subject.

Total Volume	Estimated 26 Cubic Yards
Type	Trees, branches, yard clippings, rocks
Frequency	8 disposals/day average

Sincerely,

G. Robert Grube
Director of Public Works

GRG/adr
CC: Broward County Environmental Quality Control Board

RECEIVED
MAR 16 1977
Dept. of Environmental Reg.
West Palm Beach

Trace Element Chemical Test Data on Public Wells CORAL SPRINGS

Broward County Health Department, Environmental Engineering Section
2421 S.W. 6th Ave., P.O. Box 1021, Fort Lauderdale, Florida 33302

Municipality, Utility, etc. City of Coral Springs

Name of Plant Sanitary Land Fill Test Well

Mailing Address of System

No. of Public Wells _____ Collector _____

Date & Hour Collected February 12, 1975

Trace Element Analyses, Mg/Liter, on Well Field Composite Sample*, by Graduate Chemist:

Well Designations

General Location of Wells

Yield Per Day: Avg. _____ Min. _____ Max. _____

Arsenic, As	Less than 0.01 mg/l	Sodium, Na	
Barium, Ba		Fluoride, F	
Cyanide, CN		Silver, Ag	0.002 mg/l
Cadmium, Cd	Less than 0.0002 mg/l	Copper, Cu	0.015 mg/l
Total Chromium, Cr	Less than 0.003 mg/l	Zinc, Zn	27.5 mg/l
Lead, Pb	Less than 0.01 mg/l	Manganese, Mn	
Phenols		Boron, B	
Ammonia, NH_3		Strontium, Sr	
Nickel, Ni	Less than 0.002 mg/l	Titanium, Ti	
Mercury	Less than 0.1 mg/l	Aluminum, Al	

RECEIVED
MAR 6 1975
Southeast Regional Office
DRC

Date Analyses Completed February 21, 1975

Signature of Graduate Chemist

Name & Address of Laboratory Water Management Corporation
4560 North Dixie Hwy., Fort Lauderdale, FL 33334

*No. of wells on composite sample to be arranged by conference between System Managers and Broward County Health Department Staff. Submit one completed copy of this report to the Broward County Health Department for each group of public supply wells. Concentrations should be performed to an accuracy sufficient for determination in conformance with U.S.P.H.S. Drinking Water Standards.

DRAFT

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

Routing To District Offices
And/Or To Other Than The Addressee

To: _____ Loctn.: _____
To: _____ Loctn.: _____
To: _____ Loctn.: _____
From: _____ Date: _____

TO: Each Source File

FROM: Scott Quaas SQ

DATE: September 6, 1978

SUBJECT: Aerial Surveillance

Aerial surveillance of each of the following solid waste sources was conducted on August 4, 1978. A discussion of specific problems and/or potential violations discovered follows the listing.

Palm Beach County

Palm Beach County #1 - Lantana
Palm Beach County #3 - Dyer
City of West Palm Beach - Yard Trash Site
Town of Palm Beach - Skees Road Yard Trash Site
City of Lake Worth

Broward County

Waste Management - SWRC Landfill
Waste Management - East Marsh Nursery
City of Coral Springs
Broward County - Davie

Dade County

Dade County - North
Dade County - South
Dade County - New South Dade Landfill
Dade County - Main
Minton Brothers Trash Site
United Sanitation Services - Medley
City of Homestead
City of Miami - Virginia Key
Munisport

(continued)

DRAFT

Main Dade County Site lacked adequate cover at all working faces. A section in the north/northeast portion lacked any cover.

New South Dade Landfill lacked cover in the southwest portion of the south cell.

Two unknown dump areas were discovered.

1. North of Boynton Road and west of Highway 441 in Palm Beach County. Trash was being dumped in a borrow pit.

2. North of C-14 Canal and east of the levee in Broward County. Trash being dumped on top of the land.

SQ:jhc

DRAFT

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
SOUTH FLORIDA SUBDISTRICT
3301 GUN CLUB ROAD
POST OFFICE BOX 3858
WEST PALM BEACH, FLORIDA 33402

REUBIN O'D. ASKEW
GOVERNOR

JOSEPH W. LANDERS, JR.
SECRETARY

May 12, 1977

LETTER OF NOTICE
SE 1148 SW
Coral Springs Landfill
Broward County

Mr. G. Robert Grube
Director of Public Works
City of Coral Springs
9551 West Sample Road
Coral Springs, Florida 33065

Dear Mr. Grube:

Florida Statutes Chapter 403 authorizes and empowers the Department of Environmental Regulation to control, abate, and prohibit pollution of air and water in accordance with the Air and Water Pollution Control Act and rules and regulations adopted and promulgated by the Department to enforce that Act. Pursuant to this Statute and rules relating thereto, you are not in compliance with the sections noted on the attached sheet.

Being in violation of Florida Statutes, you are subject to provisions of Florida Statutes 403.161. You are hereby advised to respond to the specific violations within twenty (20) days.

In the event there are questions concerning this Letter of Notice, please contact this office. Please refer to the above Letter of Notice number in your correspondence.

Sincerely,

for Warren G. Strahm
Subdistrict Manager

WGS:SQ:sm

cc: Broward County Environmental Quality Control Board

DRAFT

LETTER OF NOTICE
SE 1148 SW

Portions of the Florida Statutes and Rules which you have violated or are now violating are identified below.

Environmental Control - Chapter 403, Florida Statutes

Section 403.161 (1)(b), It shall be a violation of this Chapter and it shall be prohibited...to violate or fail to comply with any rule, regulation, order, permit, or certification adopted or issued by the Department pursuant to its lawful authority.

Resource Recovery and Management - Chapter 17-7, F.A.C.

Section 17-7.03 (8), All persons operating existing facilities... shall take necessary corrective actions as expeditiously as possible so as to be in full compliance with these regulations no later than July 1, 1977.

Remarks

A review of our files indicates that you have failed to comply with Temporary Operation Permit No. ST 06-027 Condition 1.I.a., in that design and plan submittal for closing by January 1, 1977, has not been accomplished. You were notified by letter dated April 20, 1977, to submit this information, but it still has not been received by this office. Therefore you are advised to submit this information to this office within 20 days after receipt of this notice.

DRAFT

SOUTHEAST REGION
ENFORCEMENT ACTION REQUEST

Priority:

TO: SCOTT QUAAS

FROM: STEVE CONN

DATE: 5/4/77

SUBJECT: CORAL SPRING LANDFILL

COUNTY: BROWARD

PERMIT NO.: ST 06-027

VIOLATION: HAVE NOT SUBMITTED CLOSING PLANS WHICH WERE DUE 1/30/77

RECOMMENDATIONS: SEND LOI REQUESTING CLOSING PLANS

COMMENTS: I WROTE LETTER 4/20/77 REQUESTING PLANS FOR SLUDGE DISPOSAL AT THE SITE AND ALSO PLANS FOR CLOSING. I RECEIVED INFORMATION ON THE SLUDGE DISPOSAL BUT NOT THE CLOSING PLANS.

LOI SENT

20 DAYS TO RESPOND

DRAFT

CITY OF CORAL SPRINGS FLORIDA

9551 WEST SAMPLE ROAD
CORAL SPRINGS, FLORIDA 33065
TELEPHONE (305) 752-3410

February 24, 1977

DER-WPB	Copy ✓ Action A	Route #	
DM	PER.	DADS	
SDM	ENF.	BROW.	
FT.P.	T/A	P.BCH.	
AA	BAG	B. BD.	
REMARKS: SCOTT			

Mr. Warren G. Strahm
Subdistrict Manager
Department of Environmental Regulation
Central and Southern District
3301 Gun Club Road
Post Office Box 3858
West Palm Beach, Florida 33402

RE: Letter of Notice #SE1096 SW, Coral Springs Landfill, Broward County

Dear Mr. Strahm:

Temporary Operating Permit No. ST06-027 for a landfill in Coral Springs was issued on June 9, 1976 to Haven C. Schrecengost, Director of Public Works. In July 1976, Mr. Schrecengost left the employment of the City. On December 20, 1976, the undersigned was appointed as Director of Public Works.

On July 14, 1976, the operation of the landfill was drastically changed per attached notice from the City Manager. The City contracted with Southern Sanitation Service to provide two each 30 cubic yard roll off containers for the disposal of solid waste by City residents. The containers are located at the landfill site.

The landfill has continued to be used for disposal of tree cuttings, grass, stumps and building debris collected by City personnel. The materials are regularly covered with soil.

A check of the records available in the City reveals that the Daily Activity Log of the landfill operation pertains only to the waste materials placed in the 30 yard containers which are disposed of elsewhere.

Procedures are bing implemented to record the volume, type and frequencies of waste being received in the landfill so that we can comply with Chapter 17-4, F.A.C.

A report will be submitted prior to March 15, 1977 for activities from February 24 - 28, 1977 and succeeding monthly reports will be submitted as required.

RECEIVED
FEB 25 1977
Dept. of Environmental Reg.

DRAFT

Please advise what additional action you require to correct our failure to comply in the past.

Sincerely,

G. Robert Grube
Director of Public Works

GRG/adr
Attch.

DRAFT

CITY OF CORAL SPRINGS FLORIDA

9429 WEST SAMPLE ROAD
CORAL SPRINGS, FLORIDA 33065
TELEPHONE (305) 752-3410

July 12, 1976

DRAFT

TO ALL USERS OF THE SANITARY LANDFILL IN
THE CITY OF CORAL SPRINGS, FLORIDA:

The City of Coral Springs has run out of usable land for the operation of the Sanitary Landfill on Wiles Road; and we have been unable to obtain additional land for the continuation of our Sanitary Landfill as it is presently operated. This fact, along with the stringent requirements of the County and State Environmental Regulations Departments, forces us into a drastic change in our method of handling trash and debris in the City of Coral Springs.

Effective July 14, 1976, it will no longer be possible to dump on the land. Rather, the City has installed containers in which limited materials will be allowed to be dumped. Generally speaking, materials that will be excluded will be concrete slabs, stumps, boulders and similar type material.

We are further advised that it will be necessary to hand-load material into the container because uneven loading will cause the containers to turn over, while hauling them from the City's Landfill to the County Landfill on Powerline Road.

The cost for using the City's Landfill area will also increase to $2.50 per cubic yard.

Phillip R. Kelley

PHILLIP R. KELLEY
City Manager

PRK/lo

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

CENTRAL AND SOUTHERN DISTRICT
3301 GUN CLUB ROAD
POST OFFICE BOX 3858
WEST PALM BEACH, FLORIDA 33402

REUBIN O'D. ASKEW
GOVERNOR

JOSEPH W. LANDERS, JR.
SECRETARY

January 26, 1977

LETTER OF NOTICE
SE 1096 SW

Mr. G. Robert Grube
Director of Public Works
City of Coral Springs
9429 West Sample Road
Coral Springs, Florida 33065

Coral Springs Landfill
Broward County

Dear Mr. Grube:

Florida Statutes Chapter 403 authorizes and empowers the Department of Environmental Regulation to control, abate, and prohibit pollution of air and water in accordance with the Air and Water Pollution Control Act and rules and regulations adopted and promulgated by the Department to enforce that Act. Pursuant to this Statute and rules relating thereto, you are not in compliance with the sections noted on the attached sheet.

Being in violation of Florida Statutes, you are subject to provisions of Florida Statutes 403.161. You are hereby advised to respond to the specific violations within Twenty (20) days.

In the event there are questions concerning this Letter of Notice, please contact this office. Please refer to the above Letter of Notice number in your correspondence.

Sincerely,

for Warren G. Strahm
Subdistrict Manager

WGS:SQ:mc
cc: Broward County Environmental Quality Control Board
bcc: Solid Waste Section

DRAFT

LETTER OF NOTICE
#SE 1096 SW

Portions of the Florida Statutes and Department Rules which you have violated or are now violating are identified below:

Environmental Control - Chapter 403, Florida Statutes

Section 403.161 (1) (b), It shall be a violation of this Chapter and it shall be prohibited...to violate or fail to comply with any rule, regulation, order, permit, or certification adopted or issued by the department pursuant to its lawful authority.

Permits: Chapter 17-4, F.A.C.

Section 17-4.14 (1), Owners of installations subject to the provisions of these rules shall provide operational data and control test records and transmit these records to the department.

Remarks:

Information available in this office indicates that monthly reports for the referenced solid waste disposal site(s) have not been received for the following month(s): no reports at all received to date.
Your permit for the operation of the disposal site(s) states as one of its conditions: "During the period allowed by this permit, the permittee shall furnish two (2) copies (one copy to the Department of Environmental Regulation and one copy to the Office of the Local Pollution Control Agency) of the monthly report on the operation of the facility including volume, type, and frequencies of waste being received. Reports for a month shall be submitted no later than the fifteenth (15) day of the succeeding month. Such reports shall include results of any monitoring if required in this permit."

Please submit withing twenty (20) days the reports for the month(s) listed above. Also you shall in the future submit the monthly reports no later than the fifteenth (15) day of the succeeding month.

DRAFT

SOLID WASTE INSPECTION REPORT

COUNTY BROWARD DATE ~~10/5~~ 10/5/78

SITE CORAL SPRINGS TIME 9:00

D.E.R. REP. S. CONN DER/WPB

FIELD CONTACT MR. COMBER - CORAL SPRINGS ENGINEER

Disposal sites should have the following minimum operation features and appurtenances necessary to maintain a clean and orderly operation. Enter explanatory remarks in space availalbe at end of questionnaire.

	YES	NO
1. Signs indicating operating authority, hours, rates?		
2. Fence or barrier around site?		
3. All weather access road?		
4. Weighing scales or records of cubic yds. received?		
5. Dust Controls?		
6. Litter control?		
7. Fire protection?		
8. Full time attendant?		
9. 6" cell cover daily?		
10. 12" intermediate cover?		
11. 24" complete cell cover?		
12. Proper grading of completed cells?		
13. Is leaching controlled?		
14. Is runoff controlled?		
15. Designated area for:		
hazardous/toxic waste		
undigested sludge		
digested sludge		
infectious wastes		
other		
16. Practice of open burning abandoned?		
17. Are vectors controlled?		
18. Suitable equipment available?		
19. Communication facilities?		
20. Potable water supply?		
21. Employee shelter?		
22. Handwashing & toilet facilities?		
23. Equipment washout facilities?		
24. Method of Operation		
Trench		
Area		
Wetland		
High Rise		
Dump		
Other		
25. Monitoring Wells?		
26. Perimeter ditch?		
27. Gas Control?		
28. Are perimeters of site more than: a. 200' from habitation or business served by public water supply; or b. 1000' from habitation or business with shallow water supply well?		
29. Satisfactory Side Slope?		
30. Water Samples: a. Needed? see remarks		

SEE REMARKS

DRAFT

REMARKS: SITE HAS TWO 30 yd^3 CONTAINERS IN WHICH RESIDENTS FROM CORAL SPRINGS DISPOSE THEIR GARBAGE INTO. ~~SITE~~ AREA DIRECTLY SURROUNDING THE CONTAINERS ~~WAS~~ HAD TRASH DISPOSED ON IT. A VERY UNSIGHTLY SITE. SLUDGE THAT WAS REMOVED FROM THE CITY'S STP DRYING BEDS IS BEING DISPOSED W/IN THE NORTH CENTRAL SECTION OF THE CLOSED LANDFILL. LIME SLUDGE FROM THE CITY'S WTP WAS ~~DISPOSED OF~~ USED AS LINER & BERMS FOR THE STP SLUDGE. ~~NO~~ SMELL FROM THE SLUDGE WAS NOT NOTICEABLE.

DRAFT

SOLID WASTE DISPOSAL SITE CHECKLIST

County: BROWARD Date: 3/28/77

Site: CORAL SPRINGS LANDFILL Time: 1:30

Director:

DPC Rep: STEVE G. COHN, DER, WPB

Disposal sites should have the following minimum operation features and appurtenances necessary to maintain a clean and orderly operation. Enter explanatory remarks in space available at end of questionnaire.

		YES	NO
1.	Signs indicating operating authority, hours, rates?	✓	
2.	Plans controlling site use.	✓	
3.	Fence or barrier around site?	✓	
4.	All weather access road?	✓	
5.	Weighing scales or records of cubic yds. received?	✓	
6.	Dust controls?		✓
7.	Litter control?		✓
8.	Fire protection?	✓	
9.	First aid equipment?	✓	
10.	Full time attendant?	✓	
11.	6" Cell cover daily?	-	
12.	24" completed cell cover?	✓	
13.	Proper grading of completed cells?	✓	
14.	Is leaching controlled?		✓
15.	Designated area for hazardous or toxic waste?	N/A	
16.	Designated area for septic tank sludge?	N/A	
17.	Practice of open burning abandoned?	✓	
18.	Are vectors controlled?	✓	
19.	Are white goods/autos compacted before burial	✓	
20.	Suitable equipment available?	✓	
21.	Alternate equipment available within 24 hours	✓	
22.	Trained Equipment operator full time?		✓
23.	Employees trained in: a. Landfill operation. b. First Aid?	✓	
24.	Training Program for operators?		✓
25.	Communication facilities?	✓	
26.	Potable water supply?	✓	
27.	Employee shelter?	✓	
28.	Handwashing & toilet facilities?		✓
29.	Equipment washout facilities?		✓
30.	Electric service available?	✓	✓
31.	Land disposal site data form complete?	✓	
32.	Method of Operation: Trench; (Area); Wetland; High Rise; Dump; Other?		
33.	Potential water pollution prevented?		✓
34.	Monitoring wells?	✓	
35.	Perimeter ditch?		✓
36.	Gas control?		✓

DRAFT

		Yes	NO
37.	Are perimetors of site more than:		
	a. 200' from habitation or business served by public water supply; or	✓	
	b. 1000' from habitation or business with shallow water supply well?	✓	
38.	Satisfactory Site Slope?	✓	
39.	Site Authority: County / (Municipal) / Private?		

		YES	NO
40.	Is site approved?	✓	
41.	Compliance Schedule established?	✓	
42.	Contact with local authority?	✓	
43.	Water Samples:		
	a. Needed?	✓	
	b. Taken?	✓	
44.	Population served by this site?		

CITY OF CORAL SPRINGS

DRAFT

Remarks: INSPECTION SHOWED THAT THE SITE IS TAKING DRY SLUDGE. (OBSERVED AS DRY SLUDGE FROM A DRYING BED)

TWO 30 cy ROLL-OFF CONTAINERS ARE ON THE SITE FOR COLLECTION OF RESIDENTIAL WASTE.

Ide SW BC
Coral Springs

SOLID WASTE DISPOSAL SITE CHECKLIST

County: BROWARD Date: 12/22/76

Site: CORAL SPRINGS Time: 10:40

Director: _____

DPC Rep: STEVE G, CONN DER WPB

Disposal sites should have the following minimum operation features and appurtenances necessary to maintain a clean and orderly operation. Enter explanatory remarks in space available at end of questionnaire.

		YES	NO
1.	Signs indicating operating authority, hours, rates?	✓	
2.	Plans controlling site use.	✓	
3.	Fence or barrier around site?	✓	
4.	All weather access road?	✓	
5.	Weighing scales or records of cubic yds. received?	✓	
6.	Dust controls?		✓
7.	Litter control?		✓
8.	Fire protection?	✓	
9.	First aid equipment?	✓	
10.	Full time attendant?	✓	
11.	6" Cell cover daily?	✓	
12.	24" completed cell cover?	✓	
13.	Proper grading of completed cells?	✓	
14.	Is leaching controlled?		✓
15.	Designated area for hazardous or toxic waste?	NA	
16.	Designated area for septic tank sludge?	NA	
17.	Practice of open burning abandoned?	✓	
18.	Are vectors controlled?	✓	
19.	Are white goods/autos compacted before burial	✓	
20.	Suitable equipment available?	✓	
21.	Alternate equipment available within 24 hours	✓	

		YES	NO
22.	Trained Equipment operator full time?		✓ Not Needed
23.	Employees trained in:		
	a. Landfill operation.	✓	
	b. First Aid?		
24.	Training Program for operators?	OJT	
25.	Communication facilities?	✓	
26.	Potable water supply?	✓	
27.	Employee shelter?	✓	
28.	Handwashing & toilet facilities?	✓	
29.	Equipment washout facilities?		✓
30.	Electric service available?		✓
31.	Land disposal site data form complete?	✓	
32.	Method of Operation:		
	Trench		
	Area	✓	
	Wetland		
	High Rise		
	Dump		
	Other?		
33.	Potential water pollution prevented?		✓
34.	Monitoring wells?	✓	
35.	Perimeter ditch?		✓
36.	Gas control?		✓

DRAFT

		Yes	NO
37.	Are perimetors of site more than:		
	a. 200' from habitation or business served by public water supply; or	✓	
	b. 1000' from habitation or business with shallow water supply well?	✓	
38.	Satisfactory Site Slope?	✓	
39.	Site Authority: County / (Municipal) / Private?		

		YES	NO
40.	Is site approved?	✓	
41.	Compliance Schedule established?	✓	
42.	Contact with local authority?	✓	
43.	Water Samples:		
	a. Needed?	✓	
	b. Taken?	✓	
44.	Population served by this site?		

CITY OF CORAL SPRINGS

DRAFT

Remarks: THIS SITE IS BEING RUN IN A NUISANCE FREE MANNER AREA IS WELL COVERED AND NO PROBLEMS UNDUE NOTICED

SOLID WASTE DISPOSAL SITE CHECKLIST

County: Broward Date: 6/4/75

Site: ~~[redacted]~~ Coral Springs Time: 11:00

Director:

DPC Rep: M. Fawley D. Stotts

Disposal sites should have the following minimum operation features and appurtenances necessary to maintain a clean and orderly operation. Enter explanatory remarks in space available at end of questionnaire.

		YES	NO
1.	Signs indicating operating authority, hours, rates?	X	
2.	Plans controlling site use.	X	
3.	Fence or barrier around site?	X	
4.	All weather access road?	X	
5.	Weighing scales or records of cubic yds. received?	X	
6.	Dust controls?		X
7.	Litter control?		X
8.	Fire protection?	X	
9.	First aid equipment?	X	
10.	Full time attendant?	X	
11.	6" Cell cover daily?	X	
12.	24" completed cell cover?	X	
13.	Proper grading of completed cells?	X	
14.	Is leaching controlled?		X
15.	Designated area for hazardous or toxic waste?		N/A
16.	Designated area for septic tank sludge?		N/A
17.	Practice of open burning abandoned?	X	
18.	Are vectors controlled?	X	
19.	Are white goods/autos compacted before burial	X	
20.	Suitable equipment available?	X	
21.	Alternate equipment available within 24 hours	X	
22.	Trained Equipment operator full time?		X not needed
23.	Employees trained in:		
	a. Landfill operation.	X	
	b. First Aid?	?	
24.	Training Program for operators?	?	
25.	Communication facilities?	X	
26.	Potable water supply?	X	
27.	Employee shelter?	X	
28.	Handwashing & toilet facilities?	X	
29.	Equipment washout facilities?		X
30.	Electric service available?		X
31.	Land disposal site data form complete?	X	
32.	Method of Operation:		
	Trench		
	Area	X	
	Wetland		
	High Rise		
	Dump		
	Other?		
33.	Potential water pollution prevented?		X
34.	Monitoring wells?	X	
35.	Perimeter ditch?		X
36.	Gas control?		X

DRAFT

		Yes	NO
37.	Are perimetors of site more than:		
	a. 200' from habitation or business served by public water supply; or	X	
	b. 1000' from habitation or business with shallow water supply well?	X	
38.	Satisfactory Site Slope?	X	
39.	Site Authority:		
	County		
	Municipal ———	X	
	Private?		

		YES	NO
40.	Is site approved?		X
41.	Compliance Schedule established?		X
42.	Contact with local authority?	X	
43.	Water Samples:		
	a. Needed?	X	
	b. Taken?	X	
44.	Population served by this site?		

DRAFT

Remarks: Area appears to be covered well - no problems



CORAL SPRINGS 6-11-75



DRAFT

SOLID WASTE DISPOSAL SITE CHECKLIST

County: BROWARD Date: Jan 31, 1975

Site: CORAL SPRINGS Time: 10:30 A.M.

Director: City

DPC Rep: Mike Fawley Jim Elias (County)

Disposal sites should have the following minimum operation features and appurtenances necessary to maintain a clean and orderly operation. Enter explanatory remarks in space available at end of questionnaire.

		YES	NO
1.	Signs indicating operating authority, hours, rates?	X	
2.	Plans controlling site use.		X
3.	Fence or barrier around site?	X	
4.	All weather access road?	X	
5.	Weighing scales or records of cubic yds. received?	X	1
6.	Dust controls?		X
7.	Litter control?	.	X
8.	Fire protection?	X	
9.	First aid equipment?	3	
10.	Full time attendant?	X	
11.	6" Cell cover daily?	?	
12.	24" completed cell cover?	X	
13.	Proper grading of completed cells?	X	
14.	Is leaching controlled?		X
15.	Designated area for hazardous or toxic waste?	?	
16.	Designated area for septic tank sludge? NONE		
17.	Practice of open burning abandoned?	X	
18.	Are vectors controlled?		X
19.	Are white goods/autos compacted before burial	?	
20.	Suitable equipment available?	X	
21.	Alternate equipment available within 24 hours	X	

		YES	NO
22.	Trained Equipment operator full time?	X	
23.	Employees trained in: a. Landfill operation. b. First Aid?	?	
24.	Training Program for operators?	?	
25.	Communication facilities?		X
26.	Potable water supply?	X	
27.	Employee shelter?	X	
28.	Handwashing & toilet facilities?	X	
29.	Equipment washout facilities?		X
30.	Electric service available?	?	
31.	Land disposal site data form complete?		X
32.	Method of Operation: Trench / Area / Wetland / High Rise / Dump / Other?	X	
33.	Potential water pollution prevented?	?	
34.	Monitoring wells?	X	
35.	Perimeter ditch?		X
36.	Gas control?		X

DRAFT

		Yes	NO
37.	Are perimetors of site more than:		
	a. 200' from habitation or business served by public water supply; or		X
	b. 1000' from habitation or business with shallow water supply well?		X
38.	Satisfactory Site Slope?		X
39.	Site Authority:		
	County		
	Municipal	X	
	Private?		

		YES	NO
40.	Is site approved?		X
41.	Compliance Schedule established?		X
42.	Contact with local authority?	X	
43.	Water Samples:		
	a. Needed?	X	
	b. Taken?		X
44.	Population served by this site?		

DRAFT

Remarks: Will apply for a temporary operating permit. Compliance will probably include shut-down. Monitoring data will be submitted soon.

SOLID WASTE DISPOSAL SITE CHECKLIST

County: Broward Date: 1/9/15

Site: Coral Springs Time: 3:30

Director: _____

DPC Rep: D. Stotts

Disposal sites should have the following minimum operation features and appurtenances necessary to maintain a clean and orderly operation. Enter explanatory remarks in space available at end of questionnaire.

		YES	NO
1.	Signs indicating operating authority, hours, rates?	X	
2.	Plans controlling site use.	?	
3.	Fence or barrier around site?	X	
4.	All weather access road?		X
5.	Weighing scales or records of cubic yds. received?	X	
6.	Dust controls?		X
7.	Litter control?		X
8.	Fire protection?		X
9.	First aid equipment?		X
10.	Full time attendant?	X	
11.	6" Cell cover daily?		X
12.	24" completed cell cover?	X	
13.	Proper grading of completed cells?	X	
14.	Is leaching controlled?		X
15.	Designated area for hazardous or toxic waste?		X
16.	Designated area for septic tank sludge?		X
17.	Practice of open burning abandoned?	X	
18.	Are vectors controlled?		X
19.	Are white goods/autos compacted before burial		
20.	Suitable equipment available?	X	
21.	Alternate equipment available within 24 hours	X	

		YES	NO	
22.	Trained Equipment operator full time?	X		
23.	Employees trained in:			
	a. Landfill operation.		X	
	b. First Aid?		X	
24.	Training Program for operators?		X	
25.	Communication facilities?		X	
26.	Potable water supply?	X		
27.	Employee shelter?	X		
28.	Handwashing & toilet facilities?		X	outhouse
29.	Equipment washout facilities?		X	
30.	Electric service available?		X	
31.	Land disposal site data form complete?			
32.	Method of Operation:			
	Trench			
	Area	X		
	Wetland	X		
	High Rise			
	Dump			
	Other?			
33.	Potential water pollution prevented?		X	
34.	Monitoring wells?	X	?	one only
35.	Perimeter ditch?		X	
36.	Gas control?		X	

DRAFT

		Yes	NO
37.	Are perimetors of site more than:		
	a. 200' from habitation or business served by public water supply; or	X	
	b. 1000' from habitation or business with shallow water supply well?	X	
38.	Satisfactory Site Slope?		
39.	Site Authority:		
	County		
	Municipal City of Coral Springs	X	
	Private?		

		YES	NO
40.	Is site approved?		X
41.	Compliance Schedule established?		X
42.	Contact with local authority?	X	
43.	Water Samples:		
	a. Needed?		X
	b. Taken?		X
44.	Population served by this site?		

Remarks: No garbage at this site - only trash & const fill - Scavenging being carried on - One monitoring well.

DRAFT

July 24, 1974









SOLID WASTE DISPOSAL SITE CHECKLIST

County: BROWARD Date: July 24, 1974
Site: CORAL SPRINGS Time: 10:00 A.M.
Director: CITY OF CORAL SPRINGS
DPC Rep: MICHAEL L. FAWLEY

Disposal sites should have the following minimum operation features and appurtenances necessary to maintain a clean and orderly operation. Enter explanatory remarks in space available at end of questionnaire.

		YES	NO
1.	Signs indicating operating authority, hours, rates?	X	
2.	Plans controlling site use.	X	
3.	Fence or barrier around site?	X	
4.	All weather access road?	X	
5.	Weighing scales or records of cubic yds. received?		X
6.	Dust controls?	X	
7.	Litter control?	X	
8.	Fire protection?	X	
9.	First aid equipment?	X	
10.	Full time attendant?	X	
11.	6" Cell cover daily?	X	
12.	24" completed cell cover?	X	
13.	Proper grading of completed cells?	X	
14.	Is leaching controlled?		X
15.	Designated area for hazardous or toxic waste?	X	
16.	Designated area for septic tank sludge?	X	
17.	Practice of open burning abandoned?		X
18.	Are vectors controlled?	X	
19.	Are white goods/autos compacted before burial	X	
20.	Suitable equipment available?	X	
21.	Alternate equipment available within 24 hours	X	

		YES	NO
22.	Trained Equipment operator full time?	X	
23.	Employees trained in:		
	a. Landfill operation.	X	
	b. First Aid?	X	
24.	Training Program for operators?		X
25.	Communication facilities?		X
26.	Potable water supply?	X	
27.	Employee shelter?	X	
28.	Handwashing & toilet facilities?	X	
29.	Equipment washout facilities?		X
30.	Electric service available?	X	
31.	Land disposal site data form complete?		X
32.	Method of Operation:		
	Trench		
	Area	X	
	Wetland		
	High Rise		
	Dump		
	Other?		
33.	Potential water pollution prevented?		X
34.	Monitoring wells?		X
35.	Perimeter ditch?		X
36.	Gas control?		X

DRAFT

		Yes	NO
37.	Are perimetors of site more than:		
	a. 200' from habitation or business served by public water supply; or	X	
	b. 1000' from habitation or business with shallow water supply well?	X	
38.	Satisfactory Site Slope?	X	
39.	Site Authority:		
	County		
	Municipal	X	
	Private?		

		YES	NO
40.	Is site approved?		X
41.	Compliance Schedule established?		X
42.	Contact with local authority?	X	
43.	Water Samples:		
	a. Needed?	X	
	b. Taken?		X
44.	Population served by this site?		

Remarks: A MEETING IS BEING SCHEDULED TO ESTABLISH A COMPLIANCE SCHEDULE.

DRAFT

SOLID WASTE DISPOSAL SITE CHECKLIST

County: BROWARD Date: April 15, 1974

Site: CORAL SPRINGS Time: 2:30 P.M.

Director: ISAAC BRANDT City Mgr.

DPC Rep: MIKE FAWLEY

Disposal sites should have the following minimum operation features and appurtenances necessary to maintain a clean and orderly operation. Enter explanatory remarks in space available at end of questionnaire.

		YES	NO
1.	Signs indicating operating authority, hours, rates?	X	
2.	Plans controlling site use.	X	
3.	Fence or barrier around site?	X	
4.	All weather access road?	X	
5.	Weighing scales or records of cubic yds. received?		X
6.	Dust controls?		X
7.	Litter control?	X	
8.	Fire protection?	X	
9.	First aid equipment?	X	
10.	Full time attendant?	X	
11.	6" Cell cover daily?		X
12.	24" completed cell cover?	X	
13.	Proper grading of completed cells?	X	
14.	Is leaching controlled?		X
15.	Designated area for hazardous or toxic waste?	X	
16.	Designated area for septic tank sludge?	X	
17.	Practice of open burning abandoned?	X	
18.	Are vectors controlled?		X
19.	Are white goods/autos compacted before burial	X	
20.	Suitable equipment available?	X	
21.	Alternate equipment available within 24 hours	X	
22.	Trained Equipment operator full time?	X	
23.	Employees trained in:		
	a. Landfill operation.	X	
	b. First Aid?	X	
24.	Training Program for operators?		X
25.	Communication facilities?		X
26.	Potable water supply?		X
27.	Employee shelter?	X	
28.	Handwashing & toilet facilities?	#	X
29.	Equipment washout facilities?		X
30.	Electric service available?		X
31.	Land disposal site data form complete?	X	
32.	Method of Operation:		
	Trench		
	Area	X	
	Wetland		
	High Rise		
	Dump		
	Other?		
33.	Potential water pollution prevented?	X	
34.	Monitoring wells?		X
35.	Perimeter ditch? IN Progress		
36.	Gas control?		X

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		Yes	NO
37.	Are perimetors of site more than:		
	a. 200' from habitation or business served by public water supply; or	X	
	b. 1000' from habitation or business with shallow water supply well?	X	
38.	Satisfactory Site Slope? IN Progress		
39.	Site Authority:		
	County		
	Municipal	X	
	Private?		

		YES	NO
40.	Is site approved?		X
41.	Compliance Schedule established?	IN Progress	
42.	Contact with local authority?	X	
43.	Water Samples:		
	a. Needed?	X	
	b. Taken?		X
44.	Population served by this site? 16,000		

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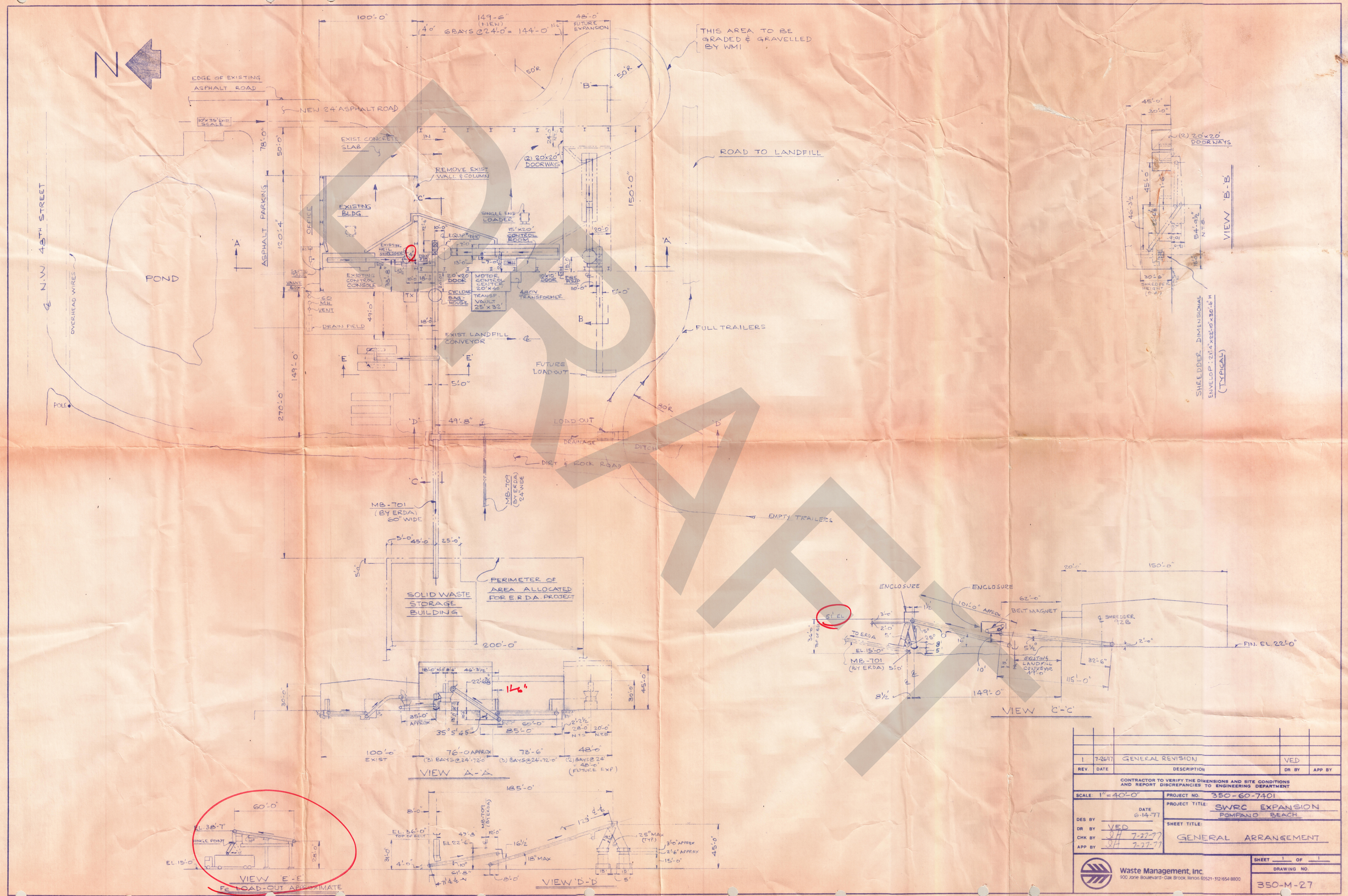
Remarks: Site is in good shape. They are making an honest effort to improve.



REV.	DATE	DESCRIPTION	DR BY	APP BY
1	7-26-77	GENERAL REVISION	VED	

CONTRACTOR TO VERIFY THE DIMENSIONS AND SITE CONDITIONS AND REPORT DISCREPANCIES TO ENGINEERING DEPARTMENT

SCALE: 1" = 40'-0"

PROJECT NO. 350-60-7401

PROJECT TITLE: SWRC EXPANSION POMPANO BEACH

DES BY — DATE 6-14-77

DR BY VED

CHK BY JH 7-27-77

APP BY JH 7-27-77

SHEET TITLE: GENERAL ARRANGEMENT

Waste Management, Inc.
900 Jorie Boulevard · Oak Brook, Illinois 60521 · 312/654-8800

SHEET 1 OF 1

DRAWING NO. 350-M-27

Environmental Protection and Growth Management Department
ENVIRONMENTAL AND CONSUMER PROTECTION
One North University Drive, Suite A203, Plantation, Florida 33324
954-519-1260 • Fax 954-765-4804

@BrowardECPD
@BrowardChildCareLicensing
@BrowardCountyEnvironment

DRAFT

May 29, 2019

Craig Ash
Monarch Hill
2700 Wiles Rd
Coconut Creek, FL, 33073

RE: **In Compliance**
Monarch Hill, 2700 Wiles Rd, Coconut Creek, 33073
DEP Facility ID#: 8622531
Broward County – Storage Tank Program

Dear Craig Ash:

A storage tanks inspection and file review were conducted at the above noted facility on or about May 24, 2019, by the Broward County Environmental and Consumer Protection Division, 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 Aneese Williams at 954-818-7531 or aneesewilliams@broward.org.

Sincerely,

Aneese Williams
Natural Resource Specialist

Enclosure

cc:

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: 8622531
County: BROWARD
Inspection Date: 05/24/2019
Facility Type: C - Fuel user/Non-retail
Facility Name: MONARCH HILL
2700 WILES RD
COCONUT CREEK, FL 33073-3018
# of Inspected ASTs: 2
USTs: 0
Mineral Acid Tanks: 0
Latitude: 26° 17' 17.2824"
Longitude: 80° 9' 53.3268"
LL Method: DPHO

Inspection Result:

Result: In Compliance

Signatures:

TKBWNR - BROWARD COUNTY ENVIRONMENTAL PROTECTION DEPT (954) 519-1259

Storage Tank Program Office and Phone Number

Aneese J Williams	Craig Ash
Inspector Name	**Representative Name**
AW	
Inspector Signature **Principal Inspector** **BROWARD COUNTY ENVIRONMENTAL PROTECTION DEPT**	**Representative Signature** **Environmental Protection Manager** **Waste Management**

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: 07/01/2018
Expiration Date: 07/01/2019

DRAFT

Completed System Tests

Type	Date Completed	Results	Reviewed	Next Due Date	Comment
Annual Operability Test	11/06/2018	Passed	05/29/2019	11/06/2019	Release Detection Testing done by Discovery Tank Testing
Annual Operability Test	11/06/2018	Passed	05/29/2019	11/06/2019	Overfill Testing done by Discovery Tank Testing

Reviewed Records

Record Category	Record Type	From Date	To Date	Reviewed Record Comment
Two Years	Certificate of Financial Responsiblity	07/01/2018	05/24/2019	Insurance Policy is current until 7/1/2019
Two Years	Monthly Maint. Visual Examinations and Results	04/27/2017	04/30/2019	
Other	Current Local Government Permit, If Applicable	08/01/2018	05/24/2019	County License is current until 7/31/2020

Site Visit Comments

05/24/2019

Facility has (2) 10,000 gallon diesel Convault double-walled aboveground storage tanks.
Both tanks are in good condition.
Both tanks are properly labeled.
No leaks or spills on or around the tanks.
The aboveground piping were inspected, all clean and secure.
The fill box was inspected.
Fill box was yellow and dry, lined with absorbing pads.
Fill ports are fitted with cam locks.
Facility has (1) dispenser.
The dispenser hoses are in good condition, no tears or holes.
Facility also has (1) dispenser on rolly system, inside dispenser box.
Dispenser box was dry and lined with absorb pads.
The dispenser hoses are in good condition, no tears or holes.
Both tanks have a Krueger Sentry Gauge for annular space monitoring.

DRAFT

Facility ID: 8622531

Both tanks have a Morrison Clock Gauge for tank leveling.

Discovery Tank Testing conducted the following tests: release detection and overfill.
All testing passed.

Reviewed cover page.
Reviewed site diagram.
Verified Coordinates.
County license is current.
FDEP placard is current.
Monthly visual inspections are available.
Certificate of Financial Responsibility Insurance is current.
Part D & P are available.

Report sent to
Craig Ash
cash1@wm.com

Inspection Photos

Added Date 05/29/2019

Monarch Hill Sign



Added Date 05/29/2019

(2) 10,000 gallon diesel AST's



DRAFT

Facility ID: 8622531

Added Date 05/29/2019

Morrison Bros Clock Gauge



Added Date 05/29/2019

Leak Gauge



Added Date 05/29/2019

10,000 Gallon Diesel AST



Added Date 05/29/2019

Morrison Bros Clock Gauge



DRAFT

Facility ID: 8622531

Added Date 05/29/2019

Leak Gauge



Added Date 05/29/2019

10,000 Gallon Diesel AST



Added Date 05/29/2019

Fillbox



Added Date 05/29/2019

Fill ports



DRAFT

Facility ID: 8622531

Added Date 05/29/2019

Piping



Added Date 05/29/2019

Rolly Dispenser



Added Date 05/29/2019

Rolly Dispenser



Added Date 05/29/2019

Dispenser



DRAFT

Site 14 Med-Care Pharmacy Inc.
1052 S. Powerline Road
Facility ID: 9100756
Risk Rating: Low

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STATE OF FLORIDA
Department of Environmental Regulation
STORAGE TANK NOTIFICATION FORM
Form 17-61.090(3)

RECEIVED
SEP 1989

DATA ENTERED
MAR 12 1990
BY

PLEASE PRINT OR TYPE

(1) DER facility number (if known) 069/00756 (2) County Code 06
(3) Original registration NEW data revision
(4) Facility type (see code list (4) on back) E

Tank(s) Location

(5) Facility name ADT SECURITY SYSTEMS
Street address/city/state/zip 1052 S. POWERLINE RD. DEERFIELD BCH., FL 33442
Mailing address/city/state/zip

(6) Operator ADT SECURITY Telephone # 305 426-3799
New operator date (only for change of operator) __/__/__

(7) Company/person owning tank(s) and piping DIAMOND REALTY TRUST
Company address/city/state/zip 3321 S.W. 15TH ST. POMPANO BCH. FL
Contact person SAM BUTTERS Telephone # 305 979-3469
New owner date (only for change of owner) __/__/__

(8) Location (if available): Latitude ° ' " Longitude ° ' "
Section Township Range

PLEASE FILL OUT ONE LINE FOR EACH TANK WITH CODES LISTED ON BACK

Fill out columns (9) through (16) for tanks in use, and (17) through (19) for tanks out of use

(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17), 18, 19 for tanks retrofitted, removed abandoned etc.	(18)	(19)
1	550	M	2/17/89	U	AE	FRP	B			

(20) GLASGOW EQUIPMENT SVC. Pollutant Storage System Specialty Contractor Name
DPR # PCC046031 Department of Professional Regulation Certificate Number
For new tank installation or tank removal

To the best of my knowledge and belief all information submitted on this form is true, accurate and complete.

LOUIS F. D'ANTONIO — Print name and title of owner, operator or authorized person
Signature
5/31/89 — Date

DER FORM 17-61.090(3) 11/29/87 (1/2)

NOTE: PUT "X" IF ANSWER IS UNKNOWN. This form may be reproduced. For each tank whether in use or out of use, use one row across. Use more than one letter per column, if applicable. When a mixture of several hazardous substances is stored in one tank, enter the name of the substance of greatest quantity. Provide a sketch of tank location in reference to a stationary structure. The tank number on the sketch must agree with the number on the form. Attach extra pages if necessary and write your facility number, if known, or name and address, exactly as it appears on the form.

INFORMATION CODE LIST

List (4) Facility Type

A. service station
B. residence
C. business (no fuel sold)
D. bulk petroleum storage
E. industrial plant
F. federal government (give GSA#)
G. state government
H. local government
I. collection station
K. bulk chemical storage
L. chemical user facility
M. agricultural facility
N. facility on Indian land
S. small user facility
T. terminal facility/marina

List (9) Tank Number – Tank Size – Gallons

List (10) Tank contents are:

A. leaded gasoline
B. unleaded gasoline
C. unleaded gasohol
D. vehicular diesel
F. aviation gas
G. jet fuel
H. concrete
I. sand
K. kerosene
L. used (waste) oil
M. diesel (boilers & generators)
N. leaded gasohol
O. new oil
P. pesticide (write in name)
R. ammonia compound (write in name)
S. chlorine compound (write in name)
V. hazardous substance (write in name or Chemical Abstract Service (CAS) number
W. water
Z. other (write in name)

List (11) Tank Installation Date/Month/Year

List (12) Underground or Aboveground (write U or A)

List (13) No skid or portable tanks

List (14) U Underground tank

A. has overfill protection
B. is interior lined
C. is painted/asphalted steel
D. is of unknown type
E. is fiberglass type
F. is fiberglass-clad steel
G. is sacrificial anode type
H. is impressed current type
I. is double walled
K. is in secondary containment
L. compartmented

List (14) A Aboveground tank

H. is double-walled
P. is surrounded by impervious dike
Q. is surrounded by earth dike
R. rests on an impervious base
S. rests on an earth/gravel base
T. has interior lined bottom
U. is cathodically protected
V. is built of/coated with corrosion resistant material
W. is supported above the soil

List (15) Integral piping system has:

A. no parts in contact with the soil

Parts contacting the soil which are:

B. galvanized or unprotected metal
C. built of corrosion resistant metal
D. corrosion resistant coated
E. cathodically protected
F. double-walled
G. within a secondary containment
H. interior lined

List (16) Monitoring system is:

A. automatically sampled well(s)
B. manually sampled well(s)
C. groundwater monitoring plan
D. SPCC plan
E. well/detector in secondary containment
F. in-ground detector
G. within walls of double-wall tank
H. continuous in piping
I. not required

List (17) Tank disposal method

A. abandoned in place, filled w/sand or concrete
B. removed from site
C. retrofitted
F. abandoned in place, but not filled w/sand or concrete

List (18) Gallons Left

List (19) Date Abandoned Month/Year

DER approved alternate procedure(s), if applicable:

MAIL TO: DER Stationary Tank Registration
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

KEEP A COPY OF THIS FORM AND SKETCH FOR YOUR FILES

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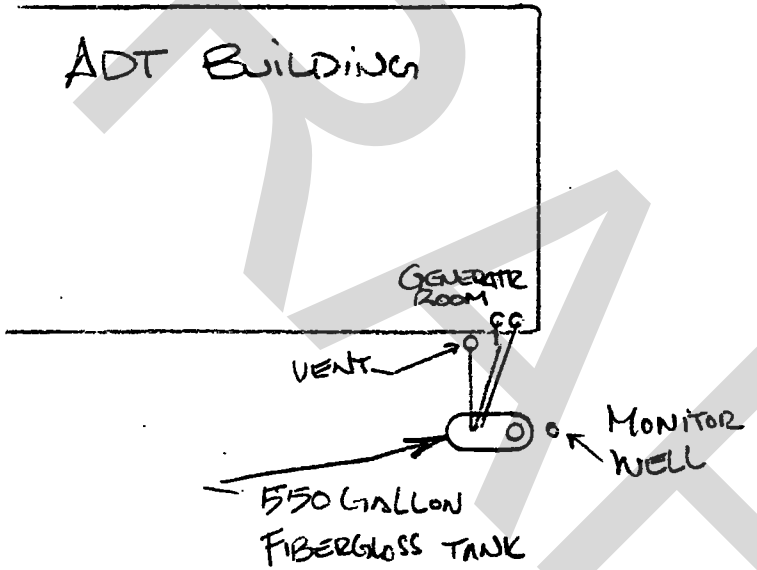
POWERLINE RD.

NORTH



SAWGRASS INDUSTRIAL PARK
1052 S. POWERLINE RD. DEERFIELD BCH, FL.
ADT SECURITY SYSTEMS 1-550 FRP 33442

SCALE: N.T.S	APPROVED BY:	DRAWN BY LOU
DATE: 5/31/89		REVISED

GLASGOW EQUIPMENT SERVICE

DRAWING NUMBER D-4454

Site 15 Shell-First Coast Energy #1836
1011 S Powerline Road
Facility ID: 9800891
Risk Rating: Medium

DRAFT

Creative Environmental Contracting JV LLC.
Geologists ▸ Engineers ▸ Environmental Scientists
700 DeSoto Avenue

DRAFT

February 3, 2016

Mr. Mathew Theisen
FDEP-Petroleum Restoration Program Section 2
BMC RM 430 MS 4545
2600 Blair Stone Road
Tallahassee, FL 32399

SUBJECT: **Task 8 Submittal – AB2918 Version 3**
Shell-First Coast Energy #1801,
390 South Powerline Road,
Deerfield Beach, Broward County, FL
FDEP Facility ID *#068731807*
PRP Reference No.: 847-022A

Dear Mr. Theisen:

Creative Environmental Contracting JV, LLC (CES) is pleased to submit the documentation to fulfill the requirements of Task 8 of the Scope of Work (SOW) associated with the Petroleum Restoration Program (PRP) Purchase Order (P.O.) AB2918 Version 3 under PRP reference number 847-022A.

Attachment A includes the Fourth Quarter Sampling Interim Report with attachments per the SOW (ADaPT files uploaded to the FTP directory). **Attachment B** includes the Schedule of Pay Items (SPI) Invoice Rate Sheet for the documentation provided herein (an electronic copy is included as well). **Attachment C** includes the DEP Vouchers for per diem reimbursement.

CES appreciates the opportunity to be of assistance to the Florida Department of Environmental Protection. If you have any questions or require additional information, please do not hesitate to contact the undersigned at (352) 796-3374.

Sincerely:
Creative Environmental Contracting JV, LLC

Erik V. Dankerl

Erik V. Dankerl, PG
Senior Geologist, EI

Tel: 352.796.3374 ● Fax: 352.796.2449
info@creativeenvironmental.com

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Attachment A

Fourth Quarter Sampling Interim Report

Creative Environmental Contracting JV LLC.
Geologists ▶ Engineers ▶ Environmental Scientists
700 DeSoto Avenue

February 3, 2016

Mr. Matthew Theisen
Florida Department of Environmental Protection
DEP-PETROLEUM RESTORATION PROGRAM SECTION 2
2600 Blair Stone Road, RM 430, MS 4585
Tallahassee, Florida 32399

SUBJECT: Fourth Quarter Sampling Interim Report
Shell-First Coast Energy #1801
390 South Powerline Road,
Deerfield Beach, Broward County, Florida
FDEP Facility ID 06/8731807

Dear Mr. Theisen:

Creative Environmental Contracting JV, LLC. (CES) is pleased to submit this Fourth Quarter Sampling Interim Report to fulfill the requirements of Task 8 of the Scope of Work (SOW) associated with the Florida Department of Environmental Protection (FDEP) Petroleum Restoration Program (PRP) Purchase Order (P.O.) AB22DB Version 3.

1.0 INVESTIGATIVE RESULTS

1.1 Fourth Quarter Sampling Event

Between January 12 and 14, 2016 CES mobilized to the subject site to collect groundwater data from thirty-one (31) existing monitoring wells. The groundwater monitoring wells were opened, allowed to stabilize and the depth to water was gauged in each monitoring well and recorded. Depth-to-water readings were collected from monitoring wells with screen intervals set into the shallow (0-15 feet below ground surface [ft.bgs]), intermediate (35-45 ft.bgs) and deep (≥55 ft.bgs) groundwater monitoring zones. A site map depicting monitoring well locations is included as **Figure 1**.

Based on the measurements collected during the January 2016 work event, the depth to water in shallow zone monitoring wells ranged from 4.05 to 5.83 ft.bgs at an average depth of 4.90 ft.bgs. Similarly for the intermediate monitoring zone, depth to water ranged from 3.81 to 5.75 ft.bgs at an average depth of 4.56 ft.bgs. For the deep monitoring zone depth to water ranged from 4.04 to 5.67 ft.bgs at an average depth of 4.80 ft.bgs. Groundwater field notes are included as **Appendix A** and the collected data is summarized in **Table 1**.

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The depth-to-water readings were corrected to datum to yield groundwater elevations, and these data were used to prepare the groundwater elevation contour map presented as **Figure 2A through 2C**. Based on the January 12, 2016 groundwater elevation measurements, the groundwater flow beneath the site was determined to be generally towards the southwest in all three monitoring zones. Groundwater gradients were interpreted to be approximately $1.3x10^{-3}$ feet per feet (ft/ft) in the shallow monitoring zone, $6.6x10^{-4}$ ft/ft in the intermediate zone and $3.8x10^{-3}$ ft/ft in the deep zone.

1.2 Fourth Quarter Groundwater Sampling

On January 13 and 14, 2016, groundwater samples were collected from 31 groundwater monitor wells. Groundwater samples were collected in accordance with the FDEP's Standard Operating Procedures (SOPs) for Field Activities (FS DEP-SOP-001/01 FS 2200). Groundwater samples collected from 2-inch diameter monitoring wells were obtained using a peristaltic pump set at a low flow rate to minimize water draw-down and turbidity in the well. Groundwater samples collected from 4-inch diameter monitoring wells were obtained using an electric submersible pump. Sampling depth for wells that intersected the water table was set at approximately 2 feet into the water table. Sampling depth for submerged screens was set at mid screen. Groundwater-sampling parameters were monitored for stabilization in accordance with FDEP SOPs and were recorded on groundwater-sampling forms. Groundwater samples were transported on wet ice to Advanced Environmental Laboratories Inc. a National Environmental Laboratory Accreditation Program (NELAP) certified laboratory in Miramar, Florida, under standard chain-of-custody protocol records for chemical analysis. Groundwater samples were analyzed for benzene, toluene, ethyl benzene, xylenes, and methyl tertiary-butyl ether (BTEX/MTBE) and poly-aromatic hydrocarbons (PAHs). Groundwater sampling logs and chain-of-custody records are included as **Appendix A**.

1.3 Fourth Quarter Groundwater Results

Based on the laboratory reporting for the January 13 and 14, 2016 sampling event, the following groundwater monitoring well(s) exhibited petroleum hydrocarbon constituents that exceeded the Natural Attenuation Concentration (NADC):

- Shallow well MW-18R exhibited ethyl benzene at 640 micrograms per Liter (µg/L), naphthalene at 360 µg/L and 2-methyl naphthalene at 290 µg/L.

Based on the laboratory reporting for the January 13 and 14, 2016 sampling event, the following groundwater monitoring well(s) exhibited petroleum hydrocarbon constituents that exceeded the Groundwater Cleanup Target Levels (GCTLs):

- Shallow well MW-18R exhibited benzene at 7.9 µg/L, and 1-methyl naphthalene at 130 µg/L.

Remaining wells exhibited concentrations either below their respective GCTLs or below the laboratory method detection limit for the analytes tested. Groundwater analytical data is summarized in **Table 2** and **Table 3** and depicted on **Figures 3A** and **3B**. Groundwater

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petroleum hydrocarbon concentration isocontour maps are included as **Figure 4A** through **Figure 4E**. Laboratory reports are included as **Appendix B**.

1.4 Groundwater Trend

Based on the laboratory reporting for the period from December 15, 2014 (baseline event), through January 14, 2016 (fourth quarter event), the following monitoring wells exhibited the resulting contaminant trends:

- Monitoring well MW-18R exhibited naphthalene and ethylbenzene initially below the NADC (during baseline sampling) then increased above the NADC in the second and third quarter, respectively. Benzene and 1-methyl naphthalene remained below NADC but above GCTL. 1-methyl naphthalene was above 70 percent NADC for all but the third quarter. Based on data plotting, included as **Appendix C**, the trend of contaminants in MW-18R indicate decreasing concentrations of petroleum hydrocarbons.
- Monitoring well OW-12 exhibited benzene concentrations above the GCTL for the baseline and first two quarters of the reporting period at concentrations of 14, 5.5 and 2.8 µg/L, respectively. For the final two quarters, benzene concentrations were below the laboratory method detection limit. In addition, 1-methyl naphthalene and 2-methyl naphthalene remained below the GCTL and/or the laboratory method detection limit for the year. Similarly, naphthalene remained below the GCTL and/or the laboratory method detection limit as of the first quarter.
- Monitoring well MW-40 exhibited benzene concentrations above the GCTL for the baseline and first two quarters of the reporting period at concentrations of 7.3, 3.9 and 9.2 µg/L, respectively. 1-methyl naphthalene and 2-methyl naphthalene were above the GCTL during the baseline and second quarter. For the final two quarters, these constituents were below their respective GCTLs and/or the laboratory method detection limits.
- Monitoring well MW-29D exhibited during the baseline sampling event a benzene concentration of 1.5 µg/L. During the fourth quarter sampling event, benzene concentration was below the laboratory method detection limit.
- Remaining monitoring wells during the last two (or more) quarters indicated petroleum hydrocarbon concentrations below their respective GCTLs and/or laboratory method detection limits.

Based on historical and recent groundwater laboratory data, petroleum contaminants in groundwater at the site appear to indicate a decreasing trend in concentrations for all wells.

2.0 SUMMARY AND RECOMMENDATIONS

Between January 12 and 14, 2016, groundwater samples were collected from 31 groundwater monitor wells and analyzed for benzene, toluene, ethyl benzene, xylenes, and methyl tertiary-butyl ether and poly-aromatic hydrocarbons. Groundwater concentrations of petroleum hydrocarbons remain above the GCTLs and NADCs at the subject site in the shallow zone. During the fourth quarter sampling event, monitoring well MW-18R exhibited NADC

DRAFT

exceedance for ethyl benzene at 640 µg/L, naphthalene at 360 µg/L, and 2-methyl naphthalene at 290 µg/L, and GCTL exceedance for benzene at 7.9 µg/L and 1-methyl naphthalene at 130 µg/L. Remaining monitoring wells during the last two (or more) quarters indicated petroleum hydrocarbon concentrations below their respective GCTLs and/or laboratory method detection limits.

Based on the laboratory data and trend analyses, petroleum hydrocarbon groundwater concentrations at the site have been declining. All but one monitoring well (MW-18R) currently exhibit concentrations below the GCTL. Based on the petroleum hydrocarbon data, it appears natural attenuation is occurring at the site. CES recommends testing several key monitoring wells for Natural Attenuation Monitoring (NAM) parameters to determine the stage of aerobic (or anaerobic) decomposition, the existence of electron acceptors or oxidizing agents, and level of methanogenesis. This data would provide a better understanding of the rate of decomposition of the dissolved petroleum hydrocarbons and duration to reach asymptotic levels below the GCTL.

Based on historical groundwater data, concentrations of tert-butyl alcohol (TBA) above the NADC have previously existed at the site. CES recommends the sampling of select monitoring wells for TBA. In addition, data is wanting on groundwater lead concentrations and CES recommends sampling select monitoring wells for that constituent.

Concerning groundwater concentrations in the area of MW-18R, CES recommends conducting a Pre-Remedial Action Plan (Pre-RAP) Teleconference to discuss episodic Total Fluids Recovery (TFR, Multi-Phase Extraction with a Vacuum-Truck) to be performed at the subject site. The objective of the Teleconference would be to define the parameters and procedures for the remediation of localized/residual vadose (unsaturated), interface (smear), and phreatic (saturated) zone petroleum hydrocarbon impacts at the site by the application of TFR. Based on site lithology and hydrology, the limited area of petroleum impacted groundwater exceeding the NADC, and CES' experience of sites with similar conditions, TFR would be a cost effective approach to significantly reduce the duration to achieve concentrations below GCTL and a "No Further Action" site status.

This Fourth Quarter Sampling Interim Report fulfills the requirements of Task 8 of the Scope of Work associated with the FDEP PRP Purchase Order AB22DB Version 3. Upon the Department's approval, CES requests to proceed to end of Purchase Order and retainage subsequently released in accordance with the PRP SOPs. In addition, for continued work, CES requests to be re-offered as direct assigned a new continuous Purchase Order for the subject site. If there are any questions or comments, please contact the undersigned at (352) 796-3374.

Sincerely,

CREATIVE ENVIRONMENTAL CONTRACTING JV, LLC.

Erik V. Dankerl

Erik V. Dankerl
Senior Geologist, PG #1817

2/3/16

Tel: 352.796.3374 • Fax: 352.796.2449
info@creativeenvironmental.com

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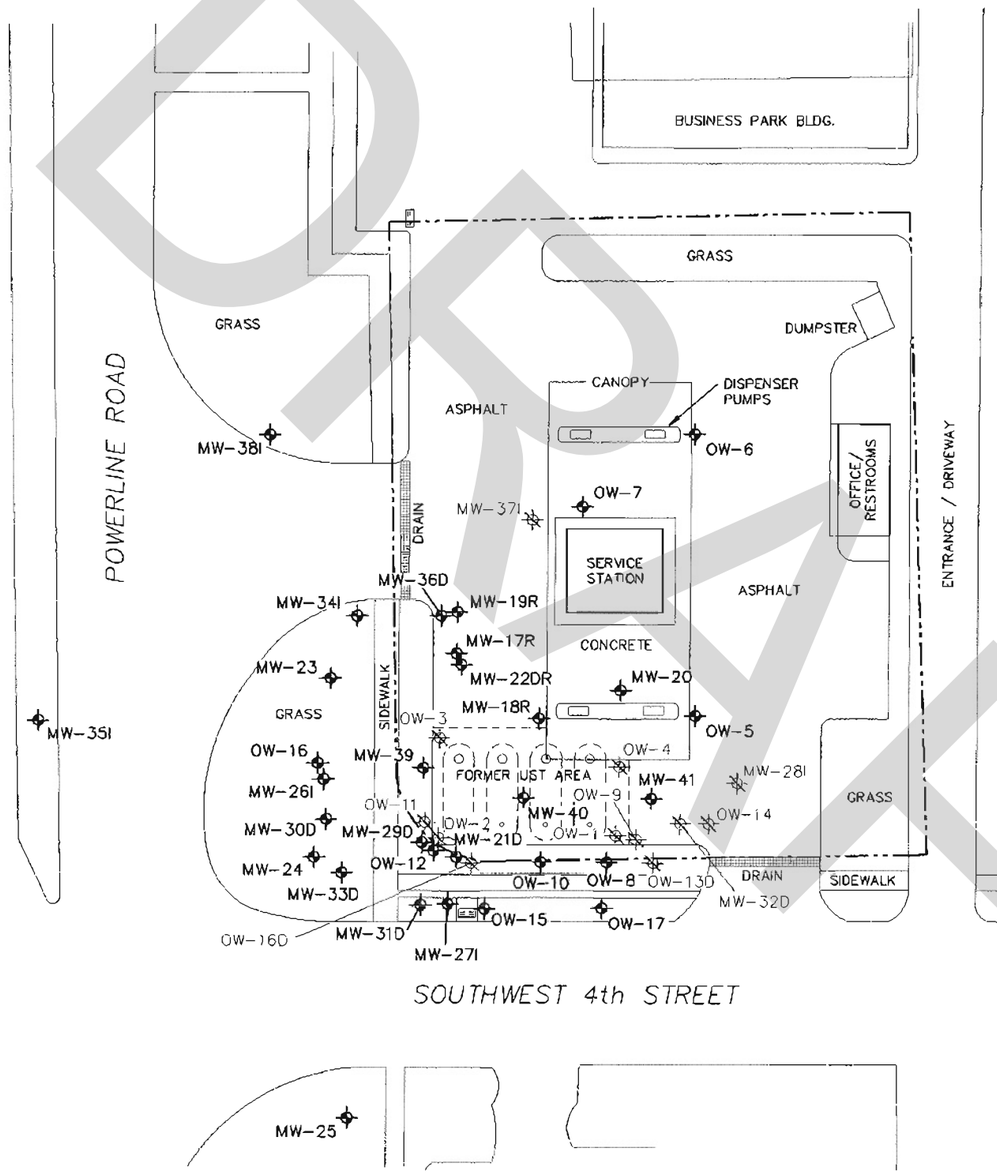
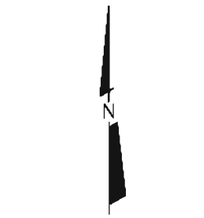
FIGURES

DRAFT

Tel: 352.796.3374 ● Fax: 352.796.2449
info@creativeenvironmental.com





LEGEND

- MONITORING WELL LOCATION
- DESTROYED / ABANDONED MONITORING WELL LOCATION

NOTE: THE BASE MAP IS FROM A DRAWING BY EARTH SYSTEMS WITH NO DATE ON MAP. LOCATIONS & DIMENSIONS ARE APPROXIMATE.

FIGURE NO. 1

FIGURE TITLE SITE MAP

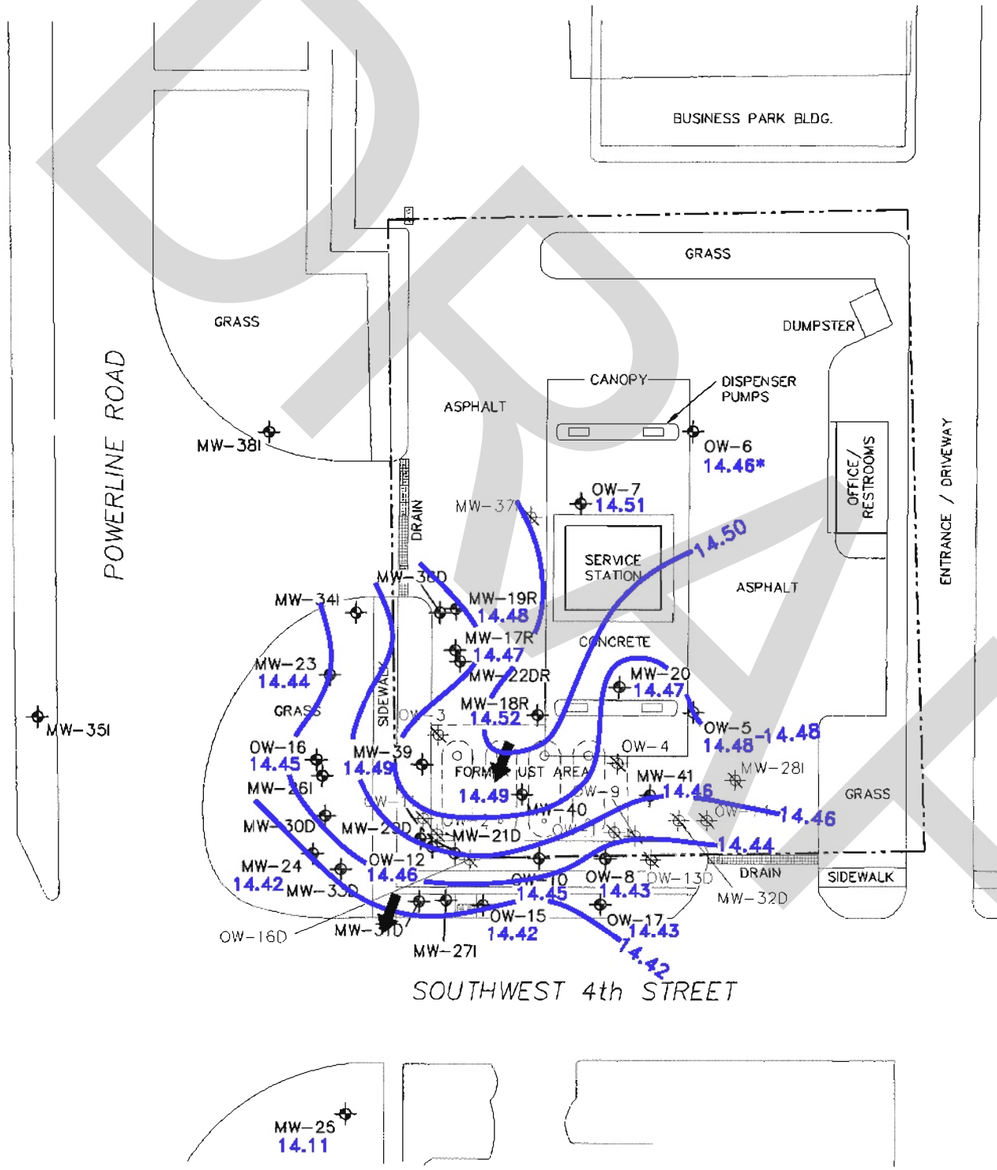
FACILITY NAME SHELL-FIRST COAST ENERGY #1801

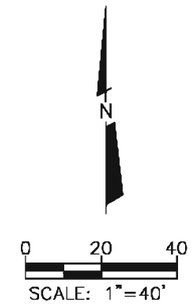
FACILITY ID NO. 068731807

DATE PREPARED 02-01-16

Creative Environmental Contracting JV LLC
700 DeSoto Avenue
Brooksville, Florida 34601
Phone: (352) 796-3374 Fax: (352) 796-2449

Y:\PROJECTS\FDEP\BROWARD\SHELL-FIRST COAST ENERGY #1801 (DEERFIELD)\CADD\SITE MAP.DWG DRAWN BY: T. TRAYNHAM CEC JOB #ATC-S022A





LEGEND

- MONITORING WELL LOCATION
- DESTROYED / ABANDONED MONITORING WELL LOCATION
- 14.11 – GROUNDWATER ELEVATION IN FEET
- 14.46* – DATA NOT USED FOR CONTOURING
- 14.50 – GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- → – APPROXIMATE DIRECTION OF GROUNDWATER FLOW

NOTE: THE BASE MAP IS FROM A DRAWING BY EARTH SYSTEMS WITH NO DATE ON MAP. LOCATIONS & DIMENSIONS ARE APPROXIMATE.

FIGURE NO. 2A

FIGURE TITLE GROUNDWATER ELEVATION CONTOUR MAP (SHALLOW ZONE) JANUARY 12, 2016

FACILITY NAME SHELL–FIRST COAST ENERGY #1801

FACILITY ID NO. 068731807

DATE PREPARED 02–01–16

Creative Environmental Contracting JV LLC
700 DeSoto Avenue
Brooksville, Florida 34601
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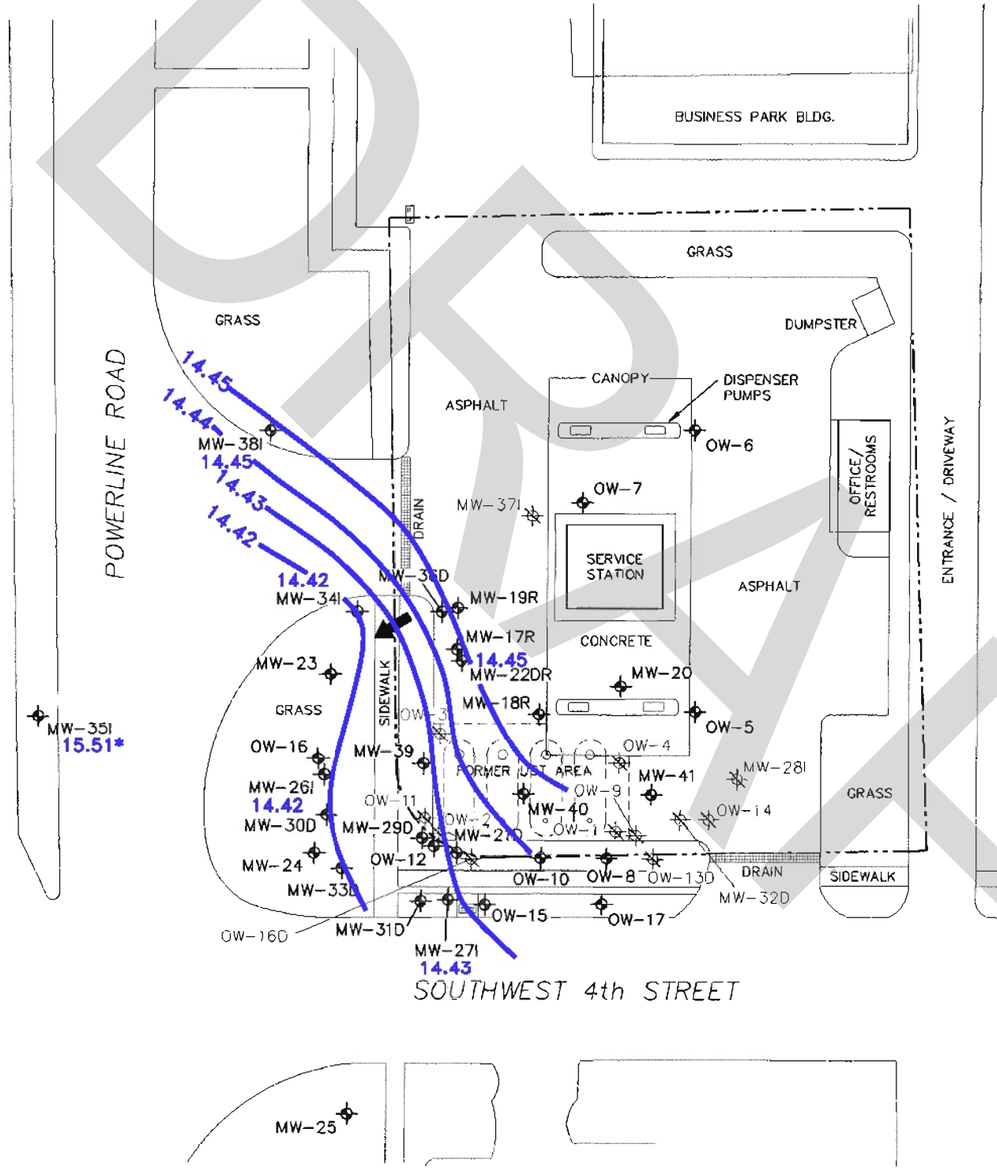

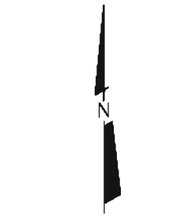

LEGEND

- MONITORING WELL LOCATION
- DESTROYED / ABANDONED MONITORING WELL LOCATION
- 14.43 – GROUNDWATER ELEVATION IN FEET
- 15.51* – DATA NOT USED FOR CONTOURING
- 14.45 – GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- → – APPROXIMATE DIRECTION OF GROUNDWATER FLOW

NOTE: THE BASE MAP IS FROM A DRAWING BY EARTH SYSTEMS WITH NO DATE ON MAP. LOCATIONS & DIMENSIONS ARE APPROXIMATE.

FIGURE NO. 2B

FIGURE TITLE GROUNDWATER ELEVATION CONTOUR MAP (INTERMEDIATE ZONE) JANUARY 12, 2016

FACILITY NAME SHELL-FIRST COAST ENERGY #1801

FACILITY ID NO. 068731807

DATE PREPARED 02-01-16

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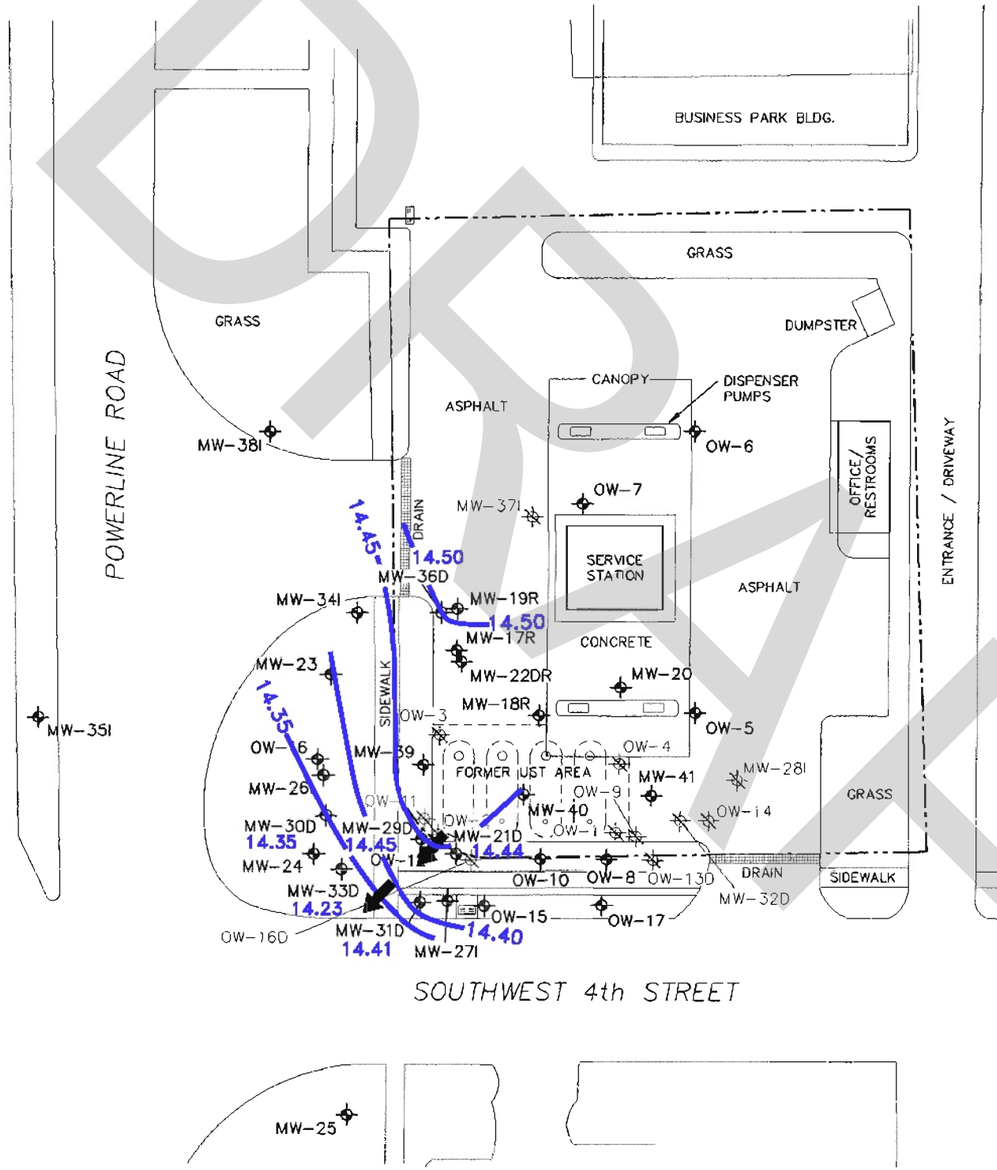

0 20 40

SCALE: 1"=40'

LEGEND

- MONITORING WELL LOCATION
- DESTROYED / ABANDONED MONITORING WELL LOCATION
- 14.23 – GROUNDWATER ELEVATION IN FEET
- 14.50 – GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- – APPROXIMATE DIRECTION OF GROUNDWATER FLOW

NOTE: THE BASE MAP IS FROM A DRAWING BY EARTH SYSTEMS WITH NO DATE ON MAP. LOCATIONS & DIMENSIONS ARE APPROXIMATE.

FIGURE NO. 2C

FIGURE TITLE GROUNDWATER ELEVATION CONTOUR MAP (DEEP ZONE) JANUARY 12, 2016

FACILITY NAME SHELL-FIRST COAST ENERGY #1801

FACILITY ID NO. 068731807

DATE PREPARED 02-02-16

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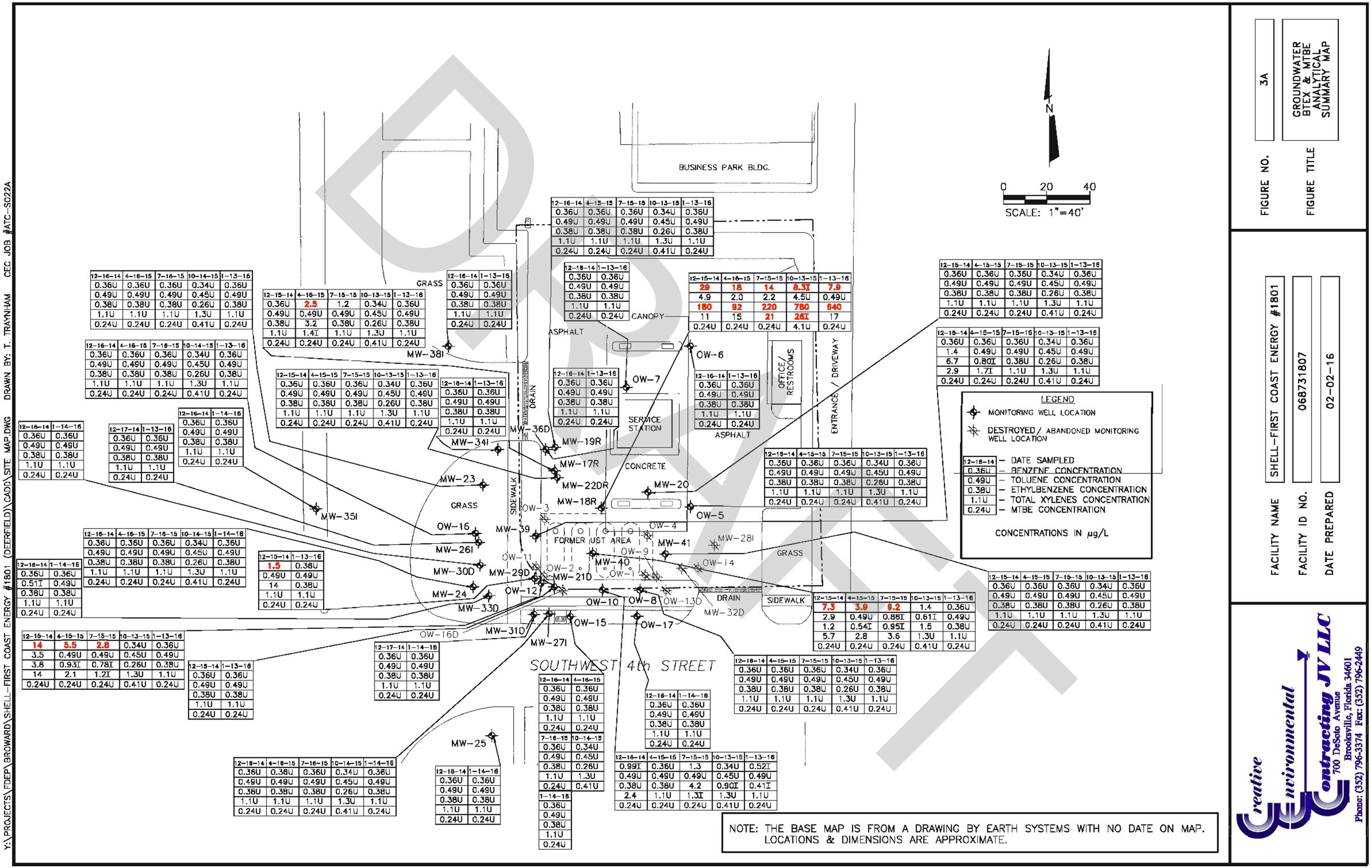

FIGURE NO. 3A

FIGURE TITLE GROUNDWATER BTEX & MTBE ANALYTICAL SUMMARY MAP

FACILITY NAME SHELL–FIRST COAST ENERGY #1801

FACILITY ID NO. 068731807

DATE PREPARED 02-02-16

Creative Environmental Contracting JV LLC
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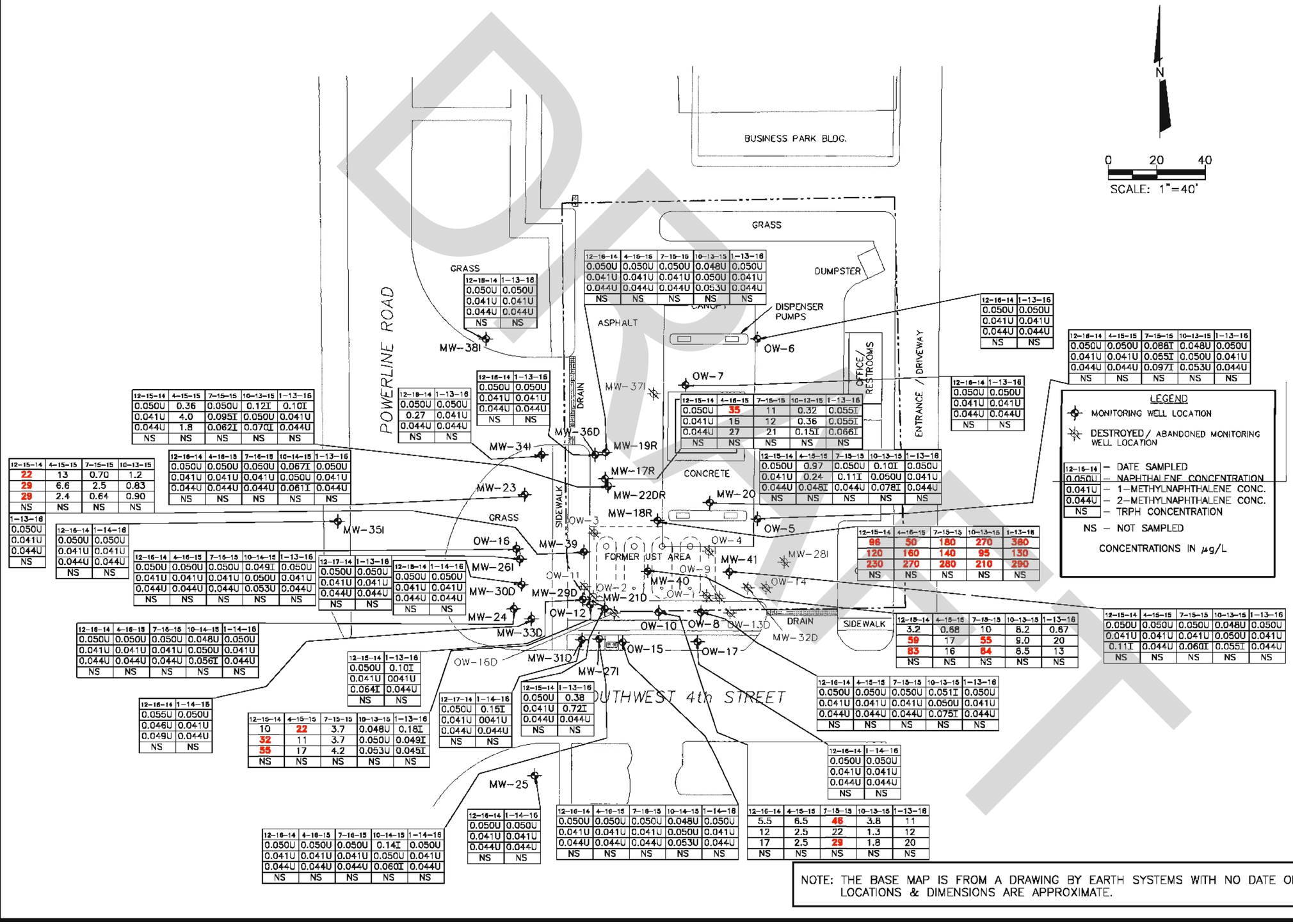
Y:\PROJECTS\FDEP\BROWARD\SHELL–FIRST COAST ENERGY #1801 (DEERFIELD)\CADD\SITE MAP.DWG DRAWN BY: T. TRAYNHAM CEC JOB #ATC–SO22A



12-16-14	4-15-15	7-15-15	10-13-15	1-13-16
0.050U	0.050U	0.050U	0.048U	0.050U
0.041U	0.041U	0.041U	0.050U	0.041U
0.044U	0.044U	0.044U	0.053U	0.044U
NS	NS	NS	NS	NS

12-16-14	1-13-16
0.050U	0.050U
0.041U	0.041U
0.044U	0.044U
NS	NS

12-16-14	1-13-16
0.050U	0.050U
0.041U	0.041U
0.044U	0.044U
NS	NS

12-16-14	4-15-15	7-15-15	10-13-15	1-13-16
0.050U	0.050U	0.088I	0.048U	0.050U
0.041U	0.041U	0.055I	0.050U	0.041U
0.044U	0.044U	0.097I	0.053U	0.044U
NS	NS	NS	NS	NS

12-16-14	1-13-16
0.050U	0.050U
0.041U	0.041U
0.044U	0.044U
NS	NS

12-16-14	1-13-16
0.050U	0.050U
0.041U	0.041U
0.044U	0.044U
NS	NS

12-15-14	4-15-15	7-15-15	10-13-15	1-13-16
0.050U	35	11	0.32	0.055I
0.041U	16	12	0.36	0.055I
0.044U	27	21	0.15I	0.066I
NS	NS	NS	NS	NS

12-15-14	4-15-15	7-15-15	10-13-15	1-13-16
0.050U	0.97	0.050U	0.10I	0.050U
0.041U	0.24	0.11I	0.050U	0.041U
0.044U	0.048I	0.044U	0.078I	0.044U
NS	NS	NS	NS	NS

12-15-14	4-15-15	7-15-15	10-13-15	1-13-16
98	50	180	270	360
120	160	140	95	130
230	270	280	210	290
NS	NS	NS	NS	NS

12-15-14	4-15-15	7-15-15	10-13-15	1-13-16
3.2	0.88	10	8.2	0.67
59	17	55	9.0	20
83	16	84	8.5	13
NS	NS	NS	NS	NS

12-15-14	4-15-15	7-15-15	10-13-15	1-13-16
0.050U	0.050U	0.050U	0.048U	0.050U
0.041U	0.041U	0.041U	0.050U	0.041U
0.11I	0.044U	0.060I	0.055I	0.044U
NS	NS	NS	NS	NS

12-15-14	4-15-15	7-15-15	10-13-15	1-13-16
0.050U	0.36	0.050U	0.12I	0.10I
0.041U	4.0	0.095I	0.050U	0.041U
0.044U	1.8	0.062I	0.070I	0.044U
NS	NS	NS	NS	NS

12-18-14	1-13-16
0.050U	0.050U
0.27	0.041U
0.044U	0.044U
NS	NS

12-16-14	1-13-16
0.050U	0.050U
0.041U	0.041U
0.044U	0.044U
NS	NS

12-16-14	4-16-15	7-15-15	10-14-15	1-13-16
0.050U	0.050U	0.050U	0.067I	0.050U
0.041U	0.041U	0.041U	0.050U	0.041U
0.044U	0.044U	0.044U	0.061I	0.044U
NS	NS	NS	NS	NS

12-15-14	4-15-15	7-15-15	10-13-15
22	13	0.70	1.2
29	6.6	2.5	0.83
29	2.4	0.64	0.90
NS	NS	NS	NS

1-13-16
0.050U
0.041U
0.044U
NS

12-16-14	1-14-16
0.050U	0.050U
0.041U	0.041U
0.044U	0.044U
NS	NS

12-16-14	4-16-15	7-15-15	10-14-15	1-13-16
0.050U	0.050U	0.050U	0.049I	0.050U
0.041U	0.041U	0.041U	0.050U	0.041U
0.044U	0.044U	0.044U	0.053U	0.044U
NS	NS	NS	NS	NS

12-17-14	1-13-16
0.050U	0.050U
0.041U	0.041U
0.044U	0.044U
NS	NS

12-18-14	1-14-16
0.050U	0.050U
0.041U	0.041U
0.044U	0.044U
NS	NS

12-16-14	4-16-15	7-15-15	10-14-15	1-14-16
0.050U	0.050U	0.050U	0.048U	0.050U
0.041U	0.041U	0.041U	0.050U	0.041U
0.044U	0.044U	0.044U	0.056I	0.044U
NS	NS	NS	NS	NS

12-15-14	1-13-16
0.050U	0.10I
0.041U	0041U
0.064I	0.044U
NS	NS

12-16-14	1-14-15
0.055U	0.050U
0.046U	0.041U
0.049U	0.044U
NS	NS

12-16-14	4-15-15	7-15-15	10-13-15	1-13-16
10	22	3.7	0.048U	0.16I
32	11	3.7	0.050U	0.049I
55	17	4.2	0.053U	0.045I
NS	NS	NS	NS	NS

12-17-14	1-14-16
0.050U	0.15I
0.041U	0041U
0.044U	0.044U
NS	NS

12-15-14	1-13-16
0.050U	0.38
0.041U	0.72I
0.044U	0.044U
NS	NS

12-16-14	4-15-15	7-15-15	10-13-15	1-13-16
0.050U	0.050U	0.050U	0.051I	0.050U
0.041U	0.041U	0.041U	0.050U	0.041U
0.044U	0.044U	0.044U	0.075I	0.044U
NS	NS	NS	NS	NS

12-16-14	1-14-16
0.050U	0.050U
0.041U	0.041U
0.044U	0.044U
NS	NS

12-16-14	4-16-15	7-15-15	10-14-15	1-14-16
0.050U	0.050U	0.050U	0.14I	0.050U
0.041U	0.041U	0.041U	0.050U	0.041U
0.044U	0.044U	0.044U	0.060I	0.044U
NS	NS	NS	NS	NS

12-16-14	1-14-16
0.050U	0.050U
0.041U	0.041U
0.044U	0.044U
NS	NS

12-16-14	4-16-15	7-15-15	10-14-15	1-14-16
0.050U	0.050U	0.050U	0.048U	0.050U
0.041U	0.041U	0.041U	0.050U	0.041U
0.044U	0.044U	0.044U	0.053U	0.044U
NS	NS	NS	NS	NS

12-16-14	4-16-15	7-15-15	10-13-15	1-13-16
5.5	6.5	46	3.8	11
12	2.5	22	1.3	12
17	2.5	29	1.8	20
NS	NS	NS	NS	NS

LEGEND

- MONITORING WELL LOCATION
- DESTROYED / ABANDONED MONITORING WELL LOCATION

12-16-14 – DATE SAMPLED
0.050U – NAPHTHALENE CONCENTRATION
0.041U – 1-METHYLNAPHTHALENE CONC.
0.044U – 2-METHYLNAPHTHALENE CONC.
NS – TRPH CONCENTRATION
NS – NOT SAMPLED

CONCENTRATIONS IN µg/L

NOTE: THE BASE MAP IS FROM A DRAWING BY EARTH SYSTEMS WITH NO DATE ON MAP. LOCATIONS & DIMENSIONS ARE APPROXIMATE.

FIGURE NO. 3B

FIGURE TITLE GROUNDWATER PAHs ANALYTICAL SUMMARY MAP

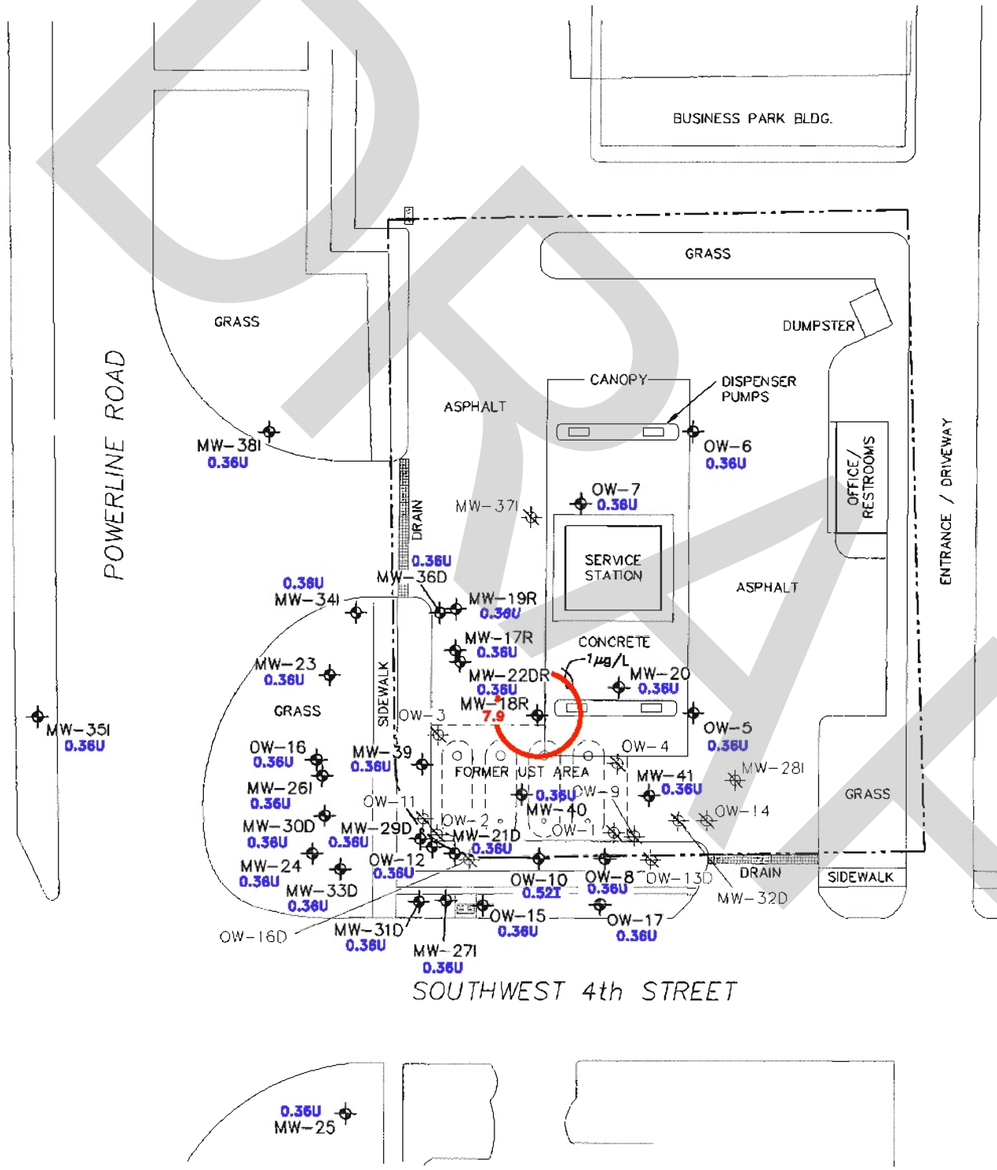
FACILITY NAME SHELL-FIRST COAST ENERGY #1801

FACILITY ID NO. 068731807

DATE PREPARED 02-02-16

Creative Environmental Contracting JV LLC
700 DeSoto Avenue
Brooksville, Florida 34601
Phone: (352) 796-3374 Fax: (352) 796-2449

Y:\PROJECTS\FDEP\BROWARD\SHELL-FIRST COAST ENERGY #1801 (DEERFIELD)\CADD\SITE MAP.DWG DRAWN BY: T. TRAYNHAM CEC JOB #ATC-S022A



N

0 20 40

SCALE: 1"=40'

LEGEND

- MONITORING WELL LOCATION
- DESTROYED / ABANDONED MONITORING WELL LOCATION
- 0.36U – BENZENE CONCENTRATION IN µg/L
- 1µg/L – BENZENE CONCENTRATION ISOCONTOUR (ABOVE GCTLs)

NOTE: THE BASE MAP IS FROM A DRAWING BY EARTH SYSTEMS WITH NO DATE ON MAP. LOCATIONS & DIMENSIONS ARE APPROXIMATE.

FIGURE NO. 4A

FIGURE TITLE GROUNDWATER BENZENE CONCENTRATION ISOCONTOUR MAP JANUARY 13 & 14, 2016

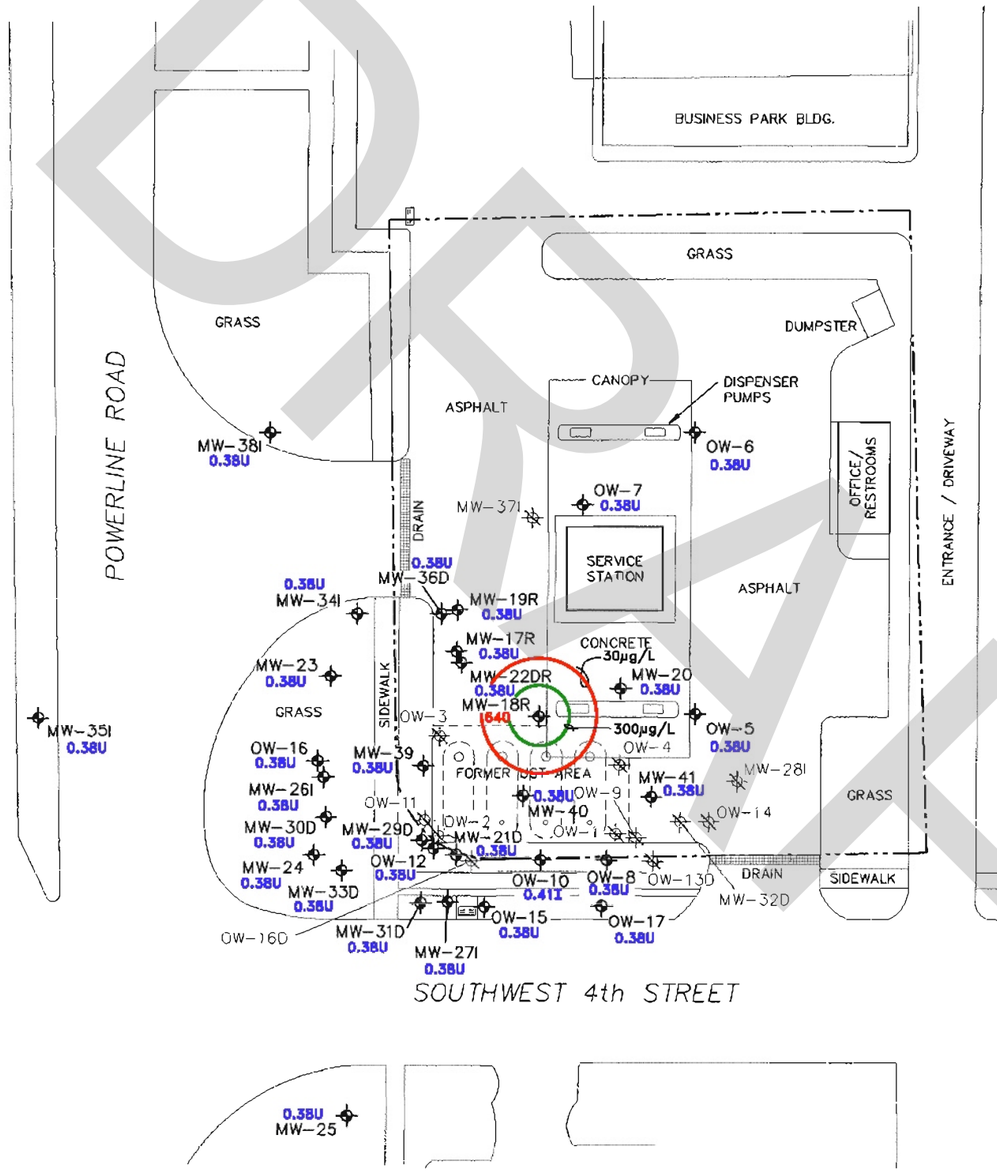
FACILITY NAME SHELL–FIRST COAST ENERGY #1801

FACILITY ID NO. 068731807

DATE PREPARED 02–01–16

Creative Environmental Contracting JV LLC
700 DeSoto Avenue
Brooksville, Florida 34601
Phone: (352) 796-3374 Fax: (352) 796-2449

Y:\PROJECTS\FDEP\BROWARD\SHELL–FIRST COAST ENERGY #1801 (DEERFIELD)\CADD\SITE MAP.DWG DRAWN BY: T. TRAYNHAM CEC JOB #ATC–S022A



N

0 20 40

SCALE: 1"=40'

LEGEND

- MONITORING WELL LOCATION
- DESTROYED / ABANDONED MONITORING WELL LOCATION
- 0.38U – ETHYLBENZENE CONCENTRATION IN µg/L
- 30µg/L – ETHYLBENZENE CONCENTRATION ISOCONTOUR (ABOVE GCTLs)
- 300µg/L – ETHYLBENZENE CONCENTRATION ISOCONTOUR (ABOVE NADCs)

NOTE: THE BASE MAP IS FROM A DRAWING BY EARTH SYSTEMS WITH NO DATE ON MAP. LOCATIONS & DIMENSIONS ARE APPROXIMATE.

FIGURE NO. 4B

FIGURE TITLE GROUNDWATER ETHYLBENZENE CONCENTRATION ISOCONTOUR MAP JANUARY 13 & 14, 2016

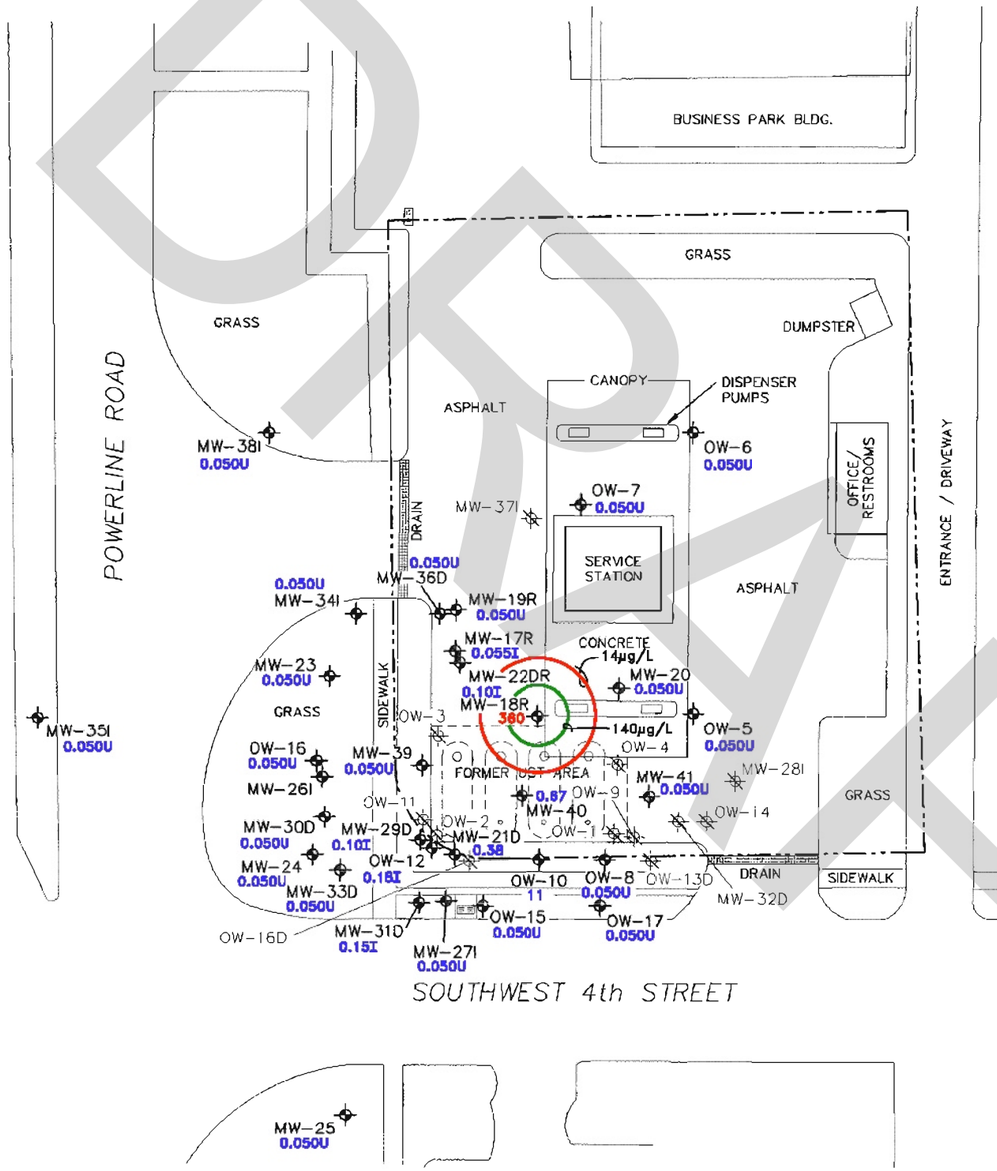
FACILITY NAME SHELL-FIRST COAST ENERGY #1801

FACILITY ID NO. 068731807

DATE PREPARED 02-01-16

Creative Environmental Contracting JV LLC
700 DeSoto Avenue
Brooksville, Florida 34601
Phone: (352) 796-3374 Fax: (352) 796-2449

Y:\PROJECTS\FDEP\BROWARD\SHELL-FIRST COAST ENERGY #1801 (DEERFIELD)\CADD\SITE MAP.DWG DRAWN BY: T. TRAYNHAM CEC JOB #ATC-5022A



N

0 20 40

SCALE: 1"=40'

LEGEND

- MONITORING WELL LOCATION
- DESTROYED / ABANDONED MONITORING WELL LOCATION
- 0.050U – NAPHTHALENE CONCENTRATION IN µg/L
- 14µg/L – NAPHTHALENE CONCENTRATION ISOCONTOUR (ABOVE GCTLs)
- 140µg/L – NAPHTHALENE CONCENTRATION ISOCONTOUR (ABOVE NADCs)

NOTE: THE BASE MAP IS FROM A DRAWING BY EARTH SYSTEMS WITH NO DATE ON MAP. LOCATIONS & DIMENSIONS ARE APPROXIMATE.

FIGURE NO. 4C

FIGURE TITLE GROUNDWATER NAPHTHALENE CONCENTRATION ISOCONTOUR MAP JANUARY 13 & 14, 2016

FACILITY NAME SHELL–FIRST COAST ENERGY #1801

FACILITY ID NO. 068731807

DATE PREPARED 02–01–16

Creative Environmental Contracting JV LLC
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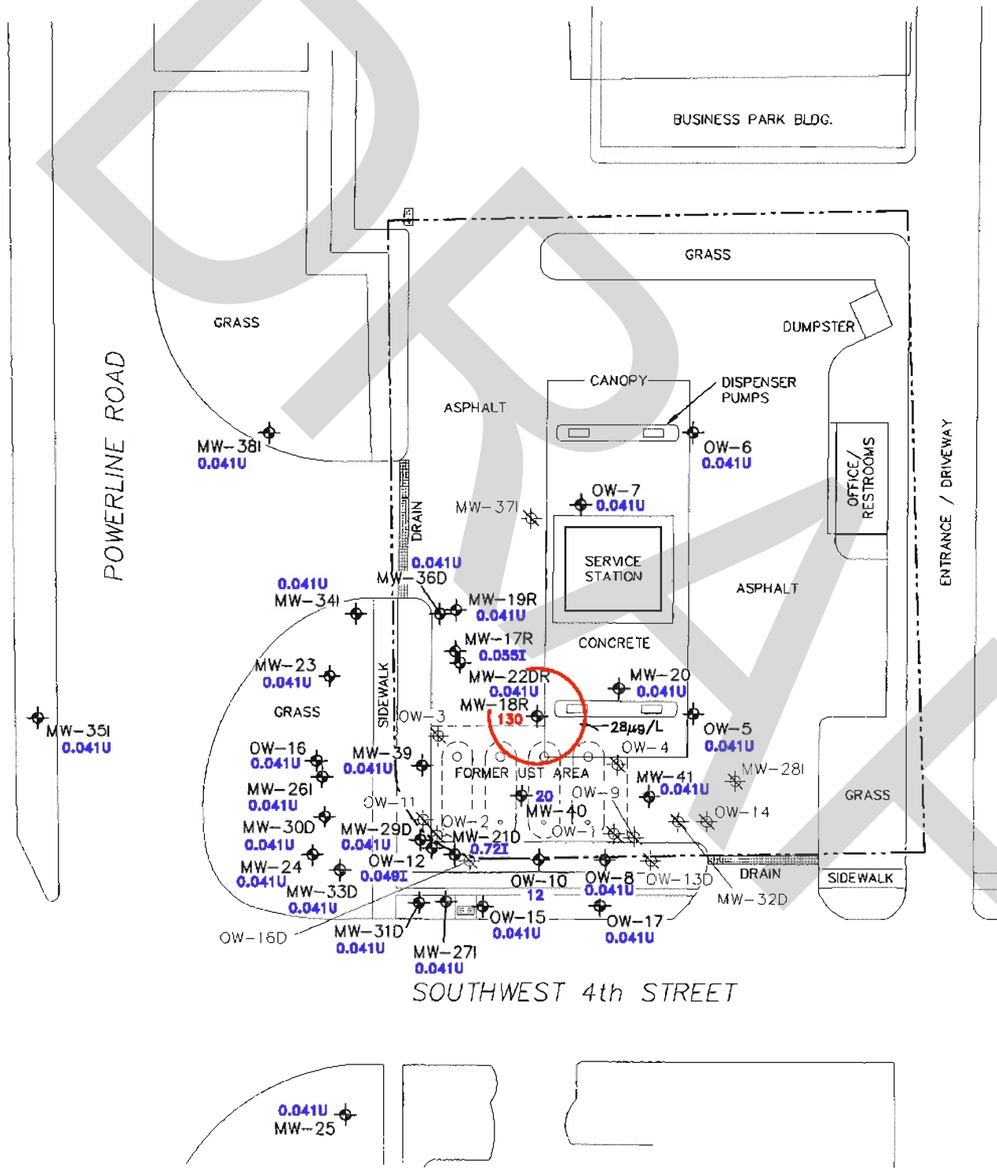

N

0 20 40

SCALE: 1"=40'

LEGEND

- MONITORING WELL LOCATION
- DESTROYED / ABANDONED MONITORING WELL LOCATION
- 0.041U – 1-METHYLNAPHTHALENE CONCENTRATION IN µg/L
- 28µg/L – 1-METHYLNAPHTHALENE CONCENTRATION ISOCONTOUR (ABOVE GCTLs)

NOTE: THE BASE MAP IS FROM A DRAWING BY EARTH SYSTEMS WITH NO DATE ON MAP. LOCATIONS & DIMENSIONS ARE APPROXIMATE.

FIGURE NO. 4D

FIGURE TITLE GROUNDWATER 1-METHYLNAPHTHALENE CONCENTRATION ISOCONTOUR MAP JANUARY 13 & 14, 2016

FACILITY NAME SHELL-FIRST COAST ENERGY #1801

FACILITY ID NO. 068731807

DATE PREPARED 02-01-16

Creative Environmental Contracting JV LLC
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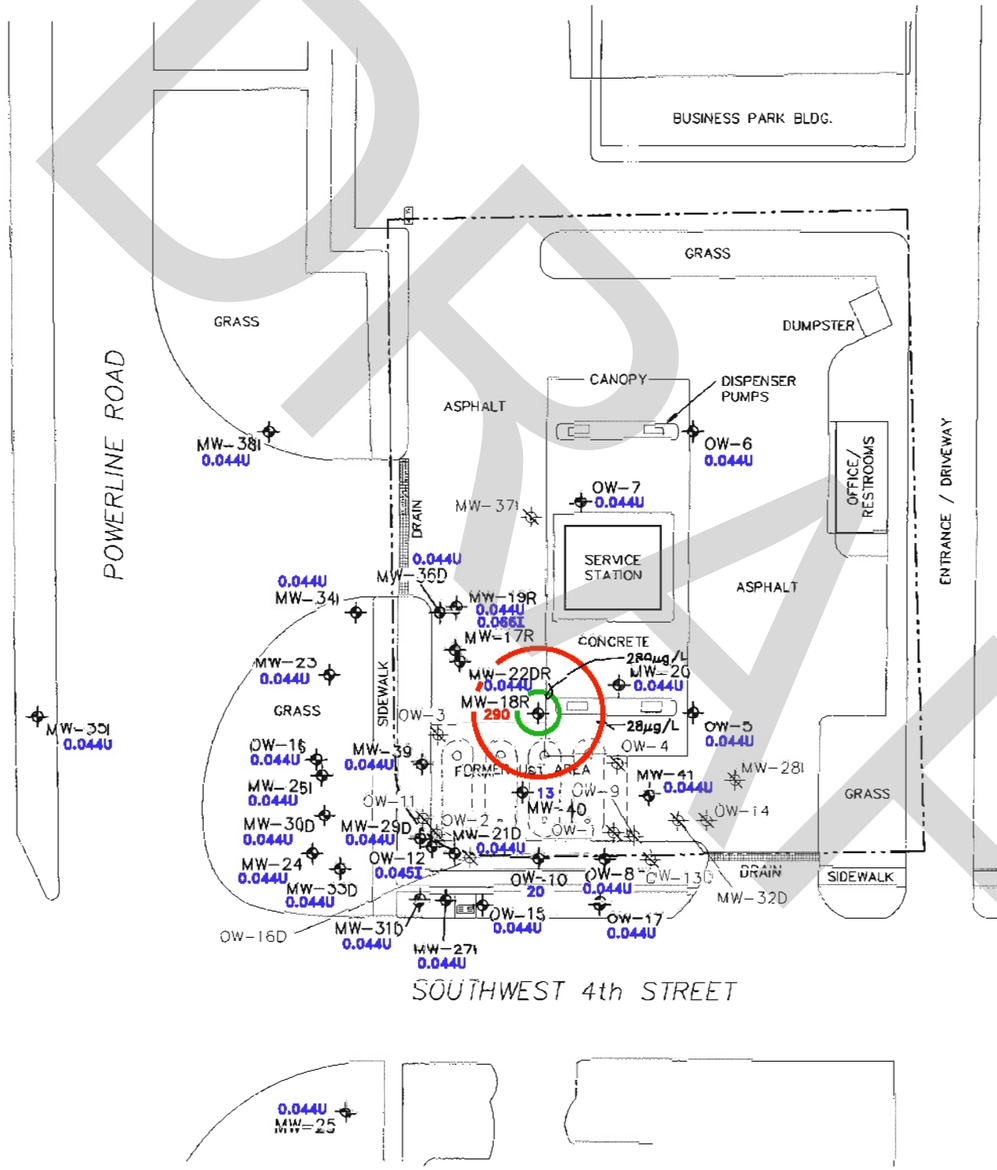
Y:\PROJECTS\FDEP\BROWARD\SHELL-FIRST COAST ENERGY #1801 (DEERFIELD)\CADD\SITE MAP.DWG DRAWN BY: T. TRAYNHAM CEC JOB #ATC-S022A



N

0 20 40

SCALE: 1"=40'

LEGEND

- MONITORING WELL LOCATION
- DESTROYED / ABANDONED MONITORING WELL LOCATION
- 0.044U – 2-METHYLNAPHTHALENE CONCENTRATION IN µg/L
- 28µg/L – 2-METHYLNAPHTHALENE CONCENTRATION ISOCONTOUR (ABOVE GCTLs)
- 280µg/L – 2-METHYLNAPHTHALENE CONCENTRATION ISOCONTOUR (ABOVE NADCs)

NOTE: THE BASE MAP IS FROM A DRAWING BY EARTH SYSTEMS WITH NO DATE ON MAP. LOCATIONS & DIMENSIONS ARE APPROXIMATE.

FIGURE NO. 4E

FIGURE TITLE GROUNDWATER 2-METHYLNAPHTHALENE CONCENTRATION ISOCONTOUR MAP JANUARY 13 & 14, 2016

FACILITY NAME SHELL-FIRST COAST ENERGY #1801

FACILITY ID NO. 068731807

DATE PREPARED 02-01-16

Creative Environmental Contracting JV LLC
700 DeSoto Avenue
Brooksville, Florida 34601
Phone: (352) 796-3374 Fax: (352) 796-2449

Y:\PROJECTS\FDEP\BROWARD\SHELL-FIRST COAST ENERGY #1801 (DEERFIELD)\CADD\SITE MAP.DWG DRAWN BY: T. TRAYNHAM CEC JOB #ATC-S022A

TABLES

DRAFT

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info@creativeenvironmental.com

TABLE 1
GROUNDWATER ELEVATION SUMMARY

First Coast Energy No. 1801/Former Shell Service Station No. 100700
FDEP Facility ID No. 06/8731807

WELL NO.	OW-1			OW-2			OW-3			OW-4			OW-5			OW-6			OW-7		
DIAM. (in.)	4			4			4			4			4			4			4		
WELL DEPTH (ft.)	12.30			11.89			9.47			14.96			10.12			11.84			11.06		
SCREEN INT. (ft.)	2.30-12.30			1.89-11.89			1-9.47			4.96-14.96			1-9.5			1.84-11.84			1.06-11.06		
TOC ELEV (ft.)	20.90			20.58			20.49			20.90			19.32			19.33			19.58		
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
08/04/05	15.19	5.71		15.35	5.23		15.12	5.37		15.18	5.72		13.92	5.40		13.91	5.42		14.00	5.58	
09/19/05																					
09/22/06	15.81	5.09		15.88	4.70		15.79	4.70		15.78	5.12	SN									
03/29/07	15.26	5.64		15.31	5.27		15.25	5.24		15.23	5.67										
07/17/07	16.08	4.82		16.19	4.39		16.14	4.35		16.06	4.84										
08/11/11	Destroyed			Destroyed			Destroyed			Destroyed			12.71	6.61							
08/19/11	--			--			--			--			12.94	6.38		12.92	6.41		12.99	6.59	
12/15/14	--			--			--			--			13.98	5.34		13.94	5.39		14.06	5.52	
04/15/15	--			--			--			--			12.44	6.88							
07/15/15	--			--			--			--			13.94	5.38							
10/13/15	--			--			--			--			14.67	4.65							
01/12/16	--			--			--			--			14.48	4.84		14.46	4.87		14.51	5.07	

WELL NO.	OW-8			OW-9			OW-10			OW-11			OW-12			OW-13D			OW-14		
DIAM. (in.)	4			4			4			2			2			2			2		
WELL DEPTH (ft.)	14.70			13.80			14.82			14.00			14.33			25.10			14.96		
SCREEN INT. (ft.)	4.70-14.70			3.80-13.80			4.82-14.82			4-14			4.33-14.33			20.10-25.10			4.69-14.69		
TOC ELEV (ft.)	20.26			20.60			20.12			20.99			19.98			20.82			20.58		
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
08/04/05	13.88	6.38		15.17	5.43		13.85	6.27		15.20	5.79		13.64	6.34		15.16	5.66		15.17	5.41	
09/19/05																					
09/22/06	15.80	5.78		15.79	4.81	SN	15.80	5.67		15.78	5.21		15.78	5.75							
03/29/07	13.93	6.33		15.23	5.37		13.91	6.21		15.24	5.75		13.72	6.26							
06/01/07							12.76	7.36													
07/17/07	14.78	5.48		16.06	4.54		14.68	5.44		16.05	4.94		14.47	5.51							
08/11/11	12.66	7.60		Destroyed			12.67	7.45		Abandoned			14.17	5.81		Destroyed			Abandoned		
08/19/11	12.97	7.29		--			12.95	7.17		--			13.01	6.97		--			--		
07/02/12				--			13.95	6.17		--			13.97	6.01		--			--		
11/01/12				--			13.39	6.73		--			13.42	6.56		--			--		
12/15/14	13.91	6.35		--			13.93	6.19		--			14.07	5.91		--			--		
04/15/15	12.40	7.86		--			12.44	7.68		--			12.46	7.52		--			--		
04/15/15	13.88	6.38		--			13.89	6.23		--			13.93	6.05		--			--		
10/13/15	14.62	5.64		--			14.66	5.46		--			14.52	5.46		--			--		
01/12/16	14.43	5.83		--			14.45	5.67		--			14.46	5.52		--			--		

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TABLE 1
GROUNDWATER ELEVATION SUMMARY

First Coast Energy No. 1801/Former Shell Service Station No. 100700
FDEP Facility ID No. 06/8731807

WELL NO.	OW-15			OW-16			OW-16D			OW-17			MW-17			MW-18			MW-19		
DIAM. (in.)	2			2			2			2			2			2			2		
WELL DEPTH (ft.)	15			14.91			25.00			12.00			13.02			13.80			13.87		
SCREEN INT. (ft.)	5-15			4.91-14.91			20-25			2.0-12.0			3.02-13.02			3.80-13.80			3.87-13.87		
TOC ELEV (ft.)	18.47			18.76			21.61			18.50			20.52			20.71			20.60		
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
08/04/05							15.16	6.45		Installed			15.18	5.34		15.17	5.54		15.19	5.41	
09/19/05	15.60	4.12		15.37	4.58					7/13/2007											
09/22/06	14.77	4.95		15.76	4.19		15.77	5.84					15.79	4.73		15.77	4.94	SN	15.80	4.80	
03/29/07	15.26	4.46		15.24	4.71		15.24	6.37					15.24	5.28		15.24	5.47		15.25	5.35	
07/17/07	14.76	3.71		12.95	5.81					14.59	3.91		16.06	4.46		16.04	4.67		16.05	4.55	
03/24/08				14.79	3.97																
08/11/11	12.68	5.79		12.67	6.09		Abandoned			12.69	5.81		Destroyed			Destroyed			Destroyed		
08/19/11	12.92	5.55		12.95	5.81		--			12.92	5.58		--			--			--		
09/14/11	14.02	4.45		14.24	4.52		--						--			--			--		
07/02/12	13.94	4.53		13.96	4.80		--			13.95	4.55		--			--			--		
11/01/12	13.39	5.08		13.42	5.34		--			13.40	5.10		--			--			--		
11/05/12							--			13.37	5.13		--			--			--		
12/15/14	14.02	4.45		14.10	4.66		--			13.99	4.51		--			--			--		
04/15/15	12.44	6.03		12.49	6.27		--						--			--			--		
07/15/15	13.90	4.57		13.90	4.86		--						--			--			--		
10/13/15	14.64	3.83		14.68	4.08		--						--			--			--		
01/12/16	14.42	4.05		14.45	4.31		--			14.43	4.07		--			--			--		

WELL NO.	MW-17R			MW-18R			MW-19R			MW-20			MW-21D*			MW-22D*			MW-22D-R		
DIAM. (in.)	2			2			2			2			2			2			2		
WELL DEPTH (ft.)	13.00			13.00			13.00			13.18			44.70			34.18			35.00		
SCREEN INT. (ft.)	3.00-13.00			3.00-13.00			3.00-13.00			3.18-13.18			39.70-44.70			29.18-34.18			30.00-35.00		
TOC ELEV (ft.)	19.07			19.67			19.20			19.72			20.04			20.55			19.31		
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
08/04/05	Installed			Installed			Installed												Installed		
09/19/05	8/2/2011			8/2/2011			8/2/2011			15.34	5.63		15.07	6.50		15.21	5.34		8/3/2011		
09/22/06													15.76	5.81		15.80	4.75				
03/29/07										15.25	5.72		15.25	6.32							
06/01/07													12.57	7.47							
07/17/07										14.80	4.92		14.47	5.57							
03/24/08										14.74	4.98		14.43	5.61							
08/02/11											8.02										
08/11/11	12.70	6.37		12.77	6.90		12.69	6.51		12.73	6.99		12.67	7.37		Destroyed			12.67	6.64	
08/19/11	12.96	6.11		12.93	6.74		12.94	6.26		12.99	6.73		12.93	7.11		--			12.93	6.38	
09/14/11																--			14.21	5.10	
07/02/12	13.99	5.08		13.98	5.69		13.99	5.21		13.98	5.74		13.88	6.16		--			13.98	5.33	
11/01/12	13.43	5.64		13.41	6.26		13.83	5.37		13.42	6.30		13.40	6.64		--			13.42	5.89	
12/15/14	14.07	5.00		14.04	5.63		14.06	5.14		14.00	5.72		14.03	6.01		--			14.05	5.26	
04/15/15	12.49	6.58		12.46	7.21		12.48	6.72		12.44	7.28					--			12.47	6.84	
07/15/15	13.93	5.14		13.93	5.74		13.91	5.29		13.91	5.81					--			13.90	5.41	
10/13/15	14.71	4.36		14.68	4.99		14.70	4.50		14.67	5.05					--			14.68	4.63	
01/12/16	14.47	4.60		14.52	5.15		14.48	4.72		14.47	5.25		14.44	5.60		--			14.45	4.86	

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TABLE 1
GROUNDWATER ELEVATION SUMMARY

First Coast Energy No. 1801/Former Shell Service Station No. 100700
FDEP Facility ID No. 06/8731807

WELL NO.	MW-23			MW-24			MW-25			MW-26I*			MW-27I*			MW-28I*			MW-29D*		
DIAM. (in.)	2			2			2			2			2			2			2		
WELL DEPTH (ft.)	12.00			12.00			12.00			45.00			45.00			45.00			60.00		
SCREEN INT. (ft.)	2.0-12.0			2.0-12.0			2.0-12.0			40.0-45.0			40.0-45.0			40.0-45.0			55.0-60.0		
TOC ELEV (ft.)	18.91			18.84			18.82			18.70			18.24			20.68			20.12		
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
08/04/05	Installed			Installed			Installed			Installed			Installed			Installed			Installed		
09/19/05	9/15/2006			9/15/2006			9/15/2006			3/26/2007			3/26/2007			3/26/2007			3/26/2007		
09/22/06	15.77	4.35		15.76	4.32		15.71	4.36													
03/29/07	15.26	4.86		15.26	4.82					13.99	4.71		13.98	4.26		15.28	5.40		13.94	6.18	
06/01/07																			12.75	7.37	
07/17/07	14.72	4.19		14.76	4.08					14.68	4.02		14.73	3.51		16.07	4.61		14.67	5.45	
03/24/08										14.74	3.96		14.72	3.52		16.02	4.66		14.62	5.50	
08/02/11		7.19														Abandoned					
08/11/11	12.68	6.23								12.65	6.05					--			12.68	7.44	
08/19/11	13.05	5.86		11.75	7.09		12.92	5.90		12.92	5.78		12.91	5.33		--			12.93	7.19	
09/14/11				14.22	4.62											--					
07/02/12	13.96	4.95		13.93	4.91									14.43		--			13.91	6.21	
11/01/12	13.62	5.29		13.50	5.34											--			13.42	6.70	
12/15/14	14.12	4.79		14.08	4.76		14.09	4.73		14.09	4.61		14.05	4.19		--			14.08	6.04	
04/15/15	12.48	6.43		12.47	6.37								12.46	5.78		--					
07/15/15	13.88	5.03		13.88	4.96								13.86	4.38		--					
10/13/15	14.66	4.25		14.66	4.18								14.64	3.60		--					
01/12/16	14.44	4.47		14.42	4.42		14.11	4.71		14.42	4.28		14.43	3.81		--			14.45	5.67	

WELL NO.	MW-30D*			MW-31D*			MW-32D*			MW-33D*			MW-34I*			MW-35I			MW-36D*		
DIAM. (in.)	2			2			2			2			2			2			2		
WELL DEPTH (ft.)	60.00			60.00			60.00			75.00			45.00			45.00			60.00		
SCREEN INT. (ft.)	55.0-60.0			55.0-60.0			55.0-60.0			70.0-75.0			40.0-45.0			40.0-45.0			55.0-60.0		
TOC ELEV (ft.)	18.79			18.45			20.75			18.78			18.64			21.26			18.98		
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
08/04/05	Installed			Installed			Installed			Installed			Installed			Installed			Installed		
09/19/05	7/12/2007			7/13/2007			7/13/2007			7/12/2007			8/21/2008			8/20/2008			8/21/2008		
09/22/06																					
03/29/07																					
06/01/07																					
07/17/07	14.67	4.12		14.70	3.75		15.91	4.84		14.38	4.40										
03/24/08																					
08/25/08													14.96	3.68		16.05	5.21		15.02	3.96	
09/18/08													13.62	5.02							
08/02/11							Destroyed												11.79	7.19	
08/11/11				12.77	5.68		--						12.76	5.88							
08/19/11	12.90	5.89		12.91	5.54		--			12.61	6.17		12.95	5.69					12.94	6.04	
12/15/14	14.09	4.70		14.07	4.38		--			13.95	4.83		14.09	4.55		15.45	5.81		14.10	4.88	
01/12/16	14.35	4.44		14.41	4.04		--			14.23	4.55		14.42	4.22		15.51	5.75		14.50	4.48	

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TABLE 1
GROUNDWATER ELEVATION SUMMARY

First Coast Energy No. 1801/Former Shell Service Station No. 100700
FDEP Facility ID No. 06/8731807

WELL NO.	MW-37I			MW-38I			MW-39			MW-40			MW-41		
DIAM. (in.)	2			2			2			2			2		
WELL DEPTH (ft.)	45.00			45.00			13.00			13.00			13.00		
SCREEN INT. (ft.)	40.0-45.0			40.0-45.0			3.0-13.0			3.0-13.0			3.0-13.0		
TOC ELEV (ft.)	20.70			18.86			20.05			19.76			19.33		
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
08/04/05	Installed			Installed			Installed			Installed			Installed		
09/19/05	10/16/2008			10/16/2008			8/17/2011			8/17/2011			8/17/2011		
09/22/06															
03/29/07															
06/01/07															
07/17/07								14.46							
03/24/08															
08/25/08															
10/20/08	15.37	5.33		14.16	4.70										
08/11/11	Destroyed														
08/19/11	Destroyed			12.88	5.98		12.95	7.10		12.93	6.83		12.92	6.41	
07/02/12	--						-6.08	6.08		13.98	5.78		13.98	5.35	
11/01/12	--						13.42	6.63		13.42	6.34		13.41	5.92	
12/15/14	--			14.14	4.72		14.09	5.96		14.03	5.73		13.97	5.36	
04/15/15	--						12.50	7.55		12.43	7.33		12.43	6.90	
07/15/15	--						13.92	6.13		13.97	5.79		13.90	5.43	
10/13/15	--						14.70	5.35		14.71	5.05		14.66	4.67	
01/12/16	--			14.45	4.41		14.49	5.56		14.49	5.27		14.46	4.87	

DTW - Depth to Water (ft.)
FP - Free Product (ft.)
Blank- No Data
SN - Light sheen visible in purge bucket (no measurable amount of product detected in well)
* - Indicates double cased well
Elev - Well Casing Elevation (ft.)

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TABLE 2

GROUNDWATER ANALYTICAL SUMMARY
(BTEX/MTBE/TBA)

First Coast Energy No. 1801/Former Shell Service Station No. 100700
FDEP Facility ID No. 06/8731807

Sample Identification	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	TBA
NADC		**100**	**400**	**300**	**200**	**200**	**14,000**
GCTL		**1**	**40**	**30**	**20**	**20**	**1,400**
OW-1	9/27/93	**2,500**	**7,600**	**179**	**3,250**	**7,600**	NS
(shallow zone)	2/3/94	**2,500**	**5,690**	**1,100**	**8,640**	**138**	NS
(Destroyed)	10/14/94	**109**	**1,050**	**1,050**	**3,250**	U	NS
	4/15/98	**31**	2	U	6	**23**	NS
	9/17/99	**168**	3	11	**90**	**47**	NS
	7/10/00	**9**	6	2	14	13	NS
	7/20/01	U	U	U	U	U	U
	7/18/02	U	U	U	U	U	U
	7/17/03	U	U	U	U	U	U
	6/23/04	6	U	U	U	14	**2,500**
	8/4/05	**140**	**55**	1.2	**18.5**	**690**	**8,900**
	9/22/06	U	U	U	U	**97**	NS
	3/30/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	**60.14**	NS
	7/17/07	**184**	**41.19**	1.865	**38.94**	**20.03**	NS
OW-2	9/27/93	**9**	2	U	2	**151**	NS
(shallow zone)	2/3/94	**446**	**286**	3	**92**	**4,700**	NS
(Destroyed)	10/14/94	**998**	**529**	U	**232**	**883**	NS
	4/15/98	**552**	**72**	U	**295**	**786**	NS
	9/17/99	**10,000**	**14,000**	**2,400**	**14,800**	**16,600**	NS
	7/10/00	**10,000**	**11,000**	**2,500**	**17,000**	**9,900**	NS
	7/20/01	**6,700**	U	**2,500**	**11,100**	**1,300**	NS
	7/18/02	**160**	**220**	**46**	**1,190**	10	NS
	7/17/03	**1,600**	**2,000**	**520**	**6,700**	**4,900**	NS
	6/23/04	**950**	U	U	**1,210**	**2,600**	U
	8/4/05	**1,300**	**48**	**93**	**164**	**110**	NS
	9/22/06	**878**	**121**	**205**	**171**	**53**	NS
	3/29/07	**737**	24.81	**73.14**	**35.6**	0.256 U	NS
	7/17/07	**502**	18.96	**68.43**	**50.587**	12.29	NS

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TABLE 2

GROUNDWATER ANALYTICAL SUMMARY
(BTEX/MTBE/TBA)

First Coast Energy No. 1801/Former Shell Service Station No. 100700
FDEP Facility ID No. 06/8731807

Sample Identification	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	TBA
NADC		**100**	**400**	**300**	**200**	**200**	**14,000**
GCTL		**1**	**40**	**30**	**20**	**20**	**1,400**
OW-3	9/27/93	1	U	U	1	**71**	NS
(shallow zone)	2/3/94	U	U	U	U	**31**	NS
(Destroyed)	10/14/94	U	U	U	U	6	NS
	4/15/98	**256**	U	U	**52**	**30**	NS
	9/17/99	**12,400**	**9,600**	**2,440**	**15,700**	**1,740**	NS
	7/10/00	**6,600**	**1,100**	U	**9,500**	**1,200**	NS
	7/20/01	**3,600**	U	**1,500**	**5,540**	U	NS
	7/18/02	**330**	31	U	**870**	**38**	NS
	7/17/03	**310**	**93**	29	**1,490**	U	NS
	6/23/04	**130**	U	U	**257**	U	600
	8/4/05	**100**	**49**	**130**	**190**	6	39
	9/22/06	**49**	6	1	**90**	8	NS
	3/29/07	**16.52**	10.45	24.28	**38.75**	0.256 U	NS
	7/17/07	**29.61**	6.219	0.1601 U	**47.894**	0.2562 U	NS
MW-39	8/18/11	**2.98**	5.88	**92.8**	**258**	0.320 U	2.00 U
(shallow zone)	7/2/12	0.500 U	0.500 U	**81.8**	**35.3**	0.500 U	NS
	11/1/12	0.77 I	0.485 I	16.5	**31.5**	0.120 U	NS
	12/15/14	0.36 U	1.4	6.7	2.9	0.24 U	NS
	4/15/15	0.36 U	0.49 U	0.80 I	1.7 I	0.24 U	NS
	7/15/15	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	10/13/15	0.34 U	0.45 U	0.26 U	1.3 U	0.41 U	NS
	1/13/16	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
OW-4	9/27/93	U	U	U	U	U	NS
(shallow zone)	2/3/94	U	U	U	U	2	NS
(Destroyed)	10/14/94	U	U	U	U	U	NS
	4/15/98	U	U	U	U	9	NS
	9/17/99	**1,450**	22	**117**	**766**	14	NS
	7/10/00	**10**	4	1	13	8	NS
	7/20/01	U	U	U	U	4	NS
	7/18/02	U	U	U	U	U	NS
	7/17/03	U	U	U	U	U	NS
	6/23/04	U	U	U	U	U	130
	8/4/05	U	U	U	U	3	22
	9/22/06	U	U	U	U	U	NS
	3/30/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
	7/17/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS

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TABLE 2

GROUNDWATER ANALYTICAL SUMMARY
(BTEX/MTBE/TBA)

First Coast Energy No. 1801/Former Shell Service Station No. 100700
FDEP Facility ID No. 06/8731807

Sample Identification	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	TBA
NADC		**100**	**400**	**300**	**200**	**200**	**14,000**
GCTL		**1**	**40**	**30**	**20**	**20**	**1,400**
MW-41	8/18/11	0.270 U	0.330 U	0.320 U	0.870 U	0.320 U	2.00 U
(shallow zone)	7/2/12	0.500 U	0.500 U	0.500 U	1.50 U	0.500 U	NS
	11/1/12	0.200 U	0.170 U	0.190 U	0.180 U	0.120 U	NS
	12/15/14	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	4/15/15	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	7/15/15	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	10/13/15	0.34 U	0.45 U	0.26 U	1.3 U	0.41 U	NS
	1/13/16	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
MW-40	8/18/11	**160**	5.98	**127**	**333**	2.48	240
(shallow zone)	7/2/12	**7.18**	0.500 U	4.32	1.91 I	0.500 U	102
	11/1/12	**9.03**	0.355 I	4.13	1.64 I	0.120 U	NS
	12/15/14	**7.3**	2.9	1.2	5.7	0.24 U	NS
	4/15/15	**3.9**	0.49 U	0.54 I	2.8	0.24 U	NS
	7/15/15	**9.2**	0.88 I	0.95 I	3.6	0.24 U	NS
	10/13/15	1.4	0.61 I	1.5	1.3 U	0.41 U	NS
	1/13/16	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
OW-5	9/27/93	U	U	U	U	U	NS
(shallow zone)	2/3/94	U	U	U	U	U	NS
	10/14/94	1	2	U	2	U	NS
	4/15/98	U	U	U	U	U	NS
	10/20/99	U	U	U	U	U	U
	8/4/05	U	U	U	U	U	U
	8/11/11	0.270 U	0.330 U	0.320 U	0.870 U	0.320 U	NS
	12/16/14	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	4/15/15	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	7/15/15	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	10/13/15	0.34 U	0.45 U	0.26 U	1.3 U	0.41 U	NS
	1/13/16	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
OW-6	9/27/93	U	U	U	U	U	NS
(shallow zone)	2/3/94	U	U	U	U	1	NS
	10/14/94	U	U	U	U	U	NS
	4/15/98	U	U	U	U	U	NS
	7/10/00	U	U	U	U	U	NS
	7/20/01	U	U	U	U	U	NS
	7/18/02	U	U	U	U	U	NS
	7/17/03	U	U	U	U	U	NS
	6/23/04	U	U	U	U	U	U
	8/4/05	U	U	U	U	U	U
	12/16/14	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	1/13/16	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS

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TABLE 2

GROUNDWATER ANALYTICAL SUMMARY
(BTEX/MTBE/TBA)

First Coast Energy No. 1801/Former Shell Service Station No. 100700
FDEP Facility ID No. 06/8731807

Sample Identification	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	TBA
NADC		**100**	**400**	**300**	**200**	**200**	**14,000**
GCTL		**1**	**40**	**30**	**20**	**20**	**1,400**
OW-7	9/27/93	U	U	U	U	U	NS
(shallow zone)	2/3/94	U	U	U	U	1	NS
	10/14/94	U	U	U	U	U	NS
	4/15/98	U	U	U	U	U	NS
	7/10/00	1	1	6	3	3	NS
	7/20/01	U	U	U	U	U	NS
	7/18/02	U	U	U	U	U	NS
	7/17/03	U	U	U	U	U	NS
	6/23/04	U	U	U	U	U	U
	8/4/05	U	U	U	U	U	U
	12/16/14	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	1/13/16	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
OW-8	2/3/94	**3**	3	U	U	**50**	NS
(shallow zone)	10/14/94	U	U	U	U	U	NS
	4/15/98	U	U	U	U	U	NS
	10/20/99	U	U	U	U	U	NS
	8/4/05	**42**	18	U	U	**430**	1,300
	9/22/06	U	U	U	U	U	NS
	3/29/07	**10.36**	0.160 U	0.195 U	0.231 U	3.18	NS
	7/17/07	**28.68**	0.2105 U	0.1959 U	0.2310 U	0.2562 U	NS
	8/11/11	0.270 U	0.330 U	0.320 U	0.870 U	0.320 U	NS
	12/16/14	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	4/15/15	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	7/15/15	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	10/13/15	0.34 U	0.045 U	0.26 U	1.3 U	0.41 U	NS
	1/13/16	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS

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GROUNDWATER ANALYTICAL SUMMARY
(BTEX/MTBE/TBA)

First Coast Energy No. 1801/Former Shell Service Station No. 100700
FDEP Facility ID No. 06/8731807

Sample Identification	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	TBA
NADC		**100**	**400**	**300**	**200**	**200**	**14,000**
GCTL		**1**	**40**	**30**	**20**	**20**	**1,400**
OW-9	2/3/94	**104**	1	3	**20**	9	NS
(shallow zone)	10/14/94	**3**	U	1	1	3	NS
(Destroyed)	4/15/98	U	U	U	U	U	NS
	8/4/05	U	U	U	U	**130**	50
	9/22/06	U	U	U	U	U	NS
	3/30/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
	7/17/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
OW-10	2/3/94	**323**	**87**	U	6	**469**	NS
(shallow zone)	10/14/94	1	U	1	4	**55**	NS
	4/15/98	**375**	U	U	**99**	**241**	NS
	10/20/99	**3,620**	**3,690**	**630**	**4,790**	U	NS
	8/4/05	**2,100**	**230**	**510**	**2,064**	**4,600**	**92,000**
	9/22/06	**735**	13.61	**48.68**	**149**	**362**	NS
	3/29/07	**920**	1.56	**258**	**336**	**178**	NS
	6/1/07	**4912**	**119**	**189**	**2340**	**273**	NS
	7/17/07	**19.14**	24.81	8.276	**876**	**105**	NS
	8/11/11	**9.35**	1.87	**78.5**	**182**	0.320 U	45.5
	7/2/12	**5.31**	0.750 I	14.6	**26.5**	0.500 U	NS
	11/1/12	**6.07**	0.710 I	17.6	**22.8**	0.120 U	NS
	12/16/14	0.99 I	0.49 U	0.38 U	2.4	0.24 U	NS
	4/15/15	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	7/15/15	1.3	0.49 U	4.2	1.3 I	0.24 U	NS
	10/13/15	0.34 U	0.45 U	0.90 I	1.3 U	0.41 U	NS
	1/13/16	0.52 I	0.49 U	0.41 I	1.1 U	0.24 U	NS

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GROUNDWATER ANALYTICAL SUMMARY
(BTEX/MTBE/TBA)

First Coast Energy No. 1801/Former Shell Service Station No. 100700
FDEP Facility ID No. 06/8731807

Sample Identification	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	TBA
NADC		**100**	**400**	**300**	**200**	**200**	**14,000**
GCTL		**1**	**40**	**30**	**20**	**20**	**1,400**
OW-11	2/3/94	**10**	5	U	1	**33**	NS
(shallow zone)	10/14/94	**54**	1	1	3	**110**	NS
(Abandoned)	4/15/98	**183**	U	U	**61**	**145**	NS
	9/17/99	**1,610**	19	26	**41**	**159**	NS
	8/4/05	**7**	U	U	U	**29**	90
	9/22/06	U	U	U	U	U	NS
	3/29/07	0.210 U	0.160 U	0.196 U	0.231 U	0.256 U	NS
	7/17/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
OW-12	2/3/94	**550**	**308**	2	**49**	**2,020**	NS
(shallow zone)	10/14/94	**200**	**131**	6	**79**	**85**	NS
	4/15/98	**2,150**	8	U	**120**	**3,540**	NS
	9/17/99	**11,900**	**13,500**	**1,540**	**9,440**	**13,500**	NS
	8/4/05	**940**	**63**	**480**	**498**	**270**	**2,100**
	9/22/06	**1,086**	**85.56**	**867**	**1,710**	**147**	NS
	3/29/07	**514**	16.43	**128**	**23**	0.256 U	NS
	7/17/07	**1481**	**473**	**781**	**1719**	11.39	NS
	8/11/11	**33.3**	1.46	9.46	17.4	0.830 I	27.0
	7/2/12	**32.2**	11.4	**777**	**2,690**	0.500 U	NS
	11/1/12	**30.1**	2.6	**311**	**388**	0.120 U	NS
	12/15/14	**14**	3.5	3.8	14	0.24 U	NS
	4/15/15	**5.5**	0.49 U	0.93 I	2.1	0.24 U	NS
	7/15/15	**2.8**	0.49 U	0.78 I	1.2 I	0.24 U	NS
	10/13/15	0.34 U	0.45 U	0.26 U	1.3 U	0.41 U	NS
	1/13/16	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
OW-13D	6/17/94	U	U	U	U	U	NS
(intermediate zone)	10/14/94	U	U	U	1	2	NS
(Destroyed)	4/15/98	U	U	U	U	U	NS
	10/20/99	U	U	U	U	U	NS
	8/4/05	U	U	U	U	U	U
OW-14	6/17/94	U	U	U	U	U	NS
(shallow zone)	10/14/94	U	U	U	U	U	NS
(Abandoned)	4/15/98	U	U	U	U	U	NS
	10/20/99	U	U	U	U	U	NS
	8/4/05	U	U	U	U	U	U

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GROUNDWATER ANALYTICAL SUMMARY
(BTEX/MTBE/TBA)

First Coast Energy No. 1801/Former Shell Service Station No. 100700
FDEP Facility ID No. 06/8731807

Sample Identification	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	TBA
NADC		**100**	**400**	**300**	**200**	**200**	**14,000**
GCTL		**1**	**40**	**30**	**20**	**20**	**1,400**
OW-15	6/17/94	U	U	U	U	U	NS
(shallow zone)	10/14/94	U	U	U	U	U	NS
	4/15/98	U	U	U	U	U	NS
	9/17/99	U	U	U	U	U	NS
	9/19/05	U	U	U	U	U	U
	9/22/06	U	U	U	U	U	NS
	3/30/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
	7/17/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
	8/11/11	0.270 U	0.330 U	0.320 U	0.870 U	0.320 U	NS
	7/2/12	0.500 U	0.500 U	0.500 U	1.50 U	0.500 U	NS
	11/1/12	0.200 U	0.170 U	0.190 U	0.180 U	0.120 U	NS
	12/16/14	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	4/16/15	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	7/16/15	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	10/14/15	0.34 U	0.45 U	0.26 U	1.3 U	0.41 U	NS
	1/14/16	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
OW-16	9/19/05	U	U	U	U	U	U
(shallow zone)	9/22/06	U	U	U	U	U	NS
	3/30/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
	7/17/07	**3.508**	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
	3/24/08	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
	8/11/11	0.270 U	0.330 U	0.320 U	0.870 U	0.320 U	NS
	7/2/12	0.500 U	0.500 U	0.500 U	1.50 U	0.500 U	NS
	11/1/12	0.200 U	0.170 U	0.190 U	0.180 U	0.120 U	NS
	12/16/14	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	4/16/15	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	7/16/15	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	10/13/15	0.34 U	0.45 U	0.26 U	1.3 U	0.41 U	NS
	1/13/16	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS

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TABLE 2

GROUNDWATER ANALYTICAL SUMMARY
(BTEX/MTBE/TBA)

First Coast Energy No. 1801/Former Shell Service Station No. 100700
FDEP Facility ID No. 06/8731807

Sample Identification	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	TBA
NADC		**100**	**400**	**300**	**200**	**200**	**14,000**
GCTL		**1**	**40**	**30**	**20**	**20**	**1,400**
OW-16D	10/14/94	**17**	7	U	4	10	NS
intermediate zone)	4/15/98	**35**	2	4	14	13	NS
(Abandoned)	8/4/05	**110**	37	7.3	**21.9**	7.2	51
	9/22/06	U	U	U	U	U	NS
	3/29/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
OW-17	7/18/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
(shallow zone)	8/11/11	0.270 U	0.330 U	0.320 U	0.870 U	0.320 U	NS
	7/2/12	0.500 U	0.500 U	0.500 U	1.50 U	0.500 U	NS
	11/5/12	0.200 U	0.170 U	0.190 U	0.180 U	0.120 U	NS
	12/16/14	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	1/14/16	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
MW-17	8/4/05	**4,400**	**310**	**470**	**1,020**	**23**	530
(shallow zone)	9/22/06	**286**	4.47	**57**	**117**	14.37	NS
(Destroyed)	3/29/07	**961**	14.32	**78.55**	**289**	0.256 U	NS
	7/17/07	**1954**	24.08	**419**	**497**	**58.88**	NS
MW-17R	8/11/11	**15.7**	0.330 U	2.73	2.18 I	0.320 U	NS
(shallow zone)	7/2/12	**105**	1.22	11.4	**22.0**	0.500 U	NS
	11/1/12	**81.9**	2.97	16.6	16.2	0.225 I	NS
	12/15/14	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	4/16/15	**2.5**	0.49 U	3.2	1.4 I	0.24 U	NS
	7/15/15	1.2	0.49 U	0.38 U	1.1 U	0.24 U	NS
	10/13/15	0.34 U	0.45 U	0.26 U	1.3 U	0.41 U	NS
	1/13/16	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
MW-18	8/4/05	**3,200**	**3,600**	**3,400**	**16,700**	**170**	350
(shallow zone)	9/22/06	**2,107**	**51.27**	**1,080**	**704**	**1,934**	NS
(Destroyed)	3/29/07	**2899**	25.79	**443**	**260**	**840**	NS
	7/17/07	**1759**	**352**	**1588**	**8884**	**727**	NS
MW-18R	8/11/11	**47.2**	11.2	**705**	**965**	0.320 U	NS
(shallow zone)	7/2/12	**20.9**	8.93	**482**	**308**	0.500 U	NS
	11/1/12	**17.4**	7.26	**495**	**318**	0.120 U	NS
	12/15/14	**29**	4.9	**180**	11	0.24 U	NS
	4/16/15	**18**	2.0	**92**	15	0.24 U	NS
	7/15/15	**14**	2.2	**220**	**21**	0.24 U	NS
	10/13/15	**8.3 I**	4.5 U	**780**	**26 I**	4.1 U	NS
	1/13/16	**7.9**	0.49 U	**640**	17	0.24 U	NS

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TABLE 2

GROUNDWATER ANALYTICAL SUMMARY
(BTEX/MTBE/TBA)

First Coast Energy No. 1801/Former Shell Service Station No. 100700
FDEP Facility ID No. 06/8731807

Sample Identification	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	TBA
NADC		**100**	**400**	**300**	**200**	**200**	**14,000**
GCTL		**1**	**40**	**30**	**20**	**20**	**1,400**
MW-19	8/4/05	U	U	U	U	U	17
(shallow zone)	9/22/06	U	U	U	U	U	NS
(Destroyed)	3/29/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
	7/17/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
MW-19R	8/11/11	0.270 U	0.330 U	0.320 U	0.870 U	0.320 U	NS
(shallow zone)	7/2/12	**6.23**	3.53	9.07	14.4	0.500 U	NS
	11/1/12	0.200 U	0.170 U	0.243 I	0.180 U	0.120 U	NS
	12/16/14	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	4/15/15	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	7/15/15	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	10/13/15	0.34 U	0.45 U	0.26 U	1.3 U	0.41 U	NS
	1/13/16	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
MW-20	9/19/05	**22**	U	U	1.16	U	62
(shallow zone)	3/29/07	**5.81**	20.14	**176**	**143**	0.256 U	NS
	7/17/07	**5.366**	0.1601 U	1.118	19.797	0.2562 U	NS
	3/24/08	**23.24**	1.530	6.250	16.74	0.2562 U	NS
	8/11/11	0.270 U	0.330 U	0.320 U	1.84 I	0.320 U	NS
	7/2/12	0.500 U	0.500 U	0.500 U	1.50 U	0.500 U	NS
	11/1/12	0.200 U	0.170 U	0.190 U	0.180 U	0.120 U	NS
	12/15/14	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	4/15/15	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	7/15/15	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	10/13/15	0.34 U	0.45 U	0.26 U	1.3 U	0.41 U	NS
	1/13/16	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
MW-21D*	9/19/05	U	U	U	U	**21**	**1,700**
(intermediate zone)	9/22/06	**433**	3.82	2.41	8.57	**31.13**	NS
	3/29/07	**98**	3.69	1.47	14.98	0.256 U	NS
	6/1/07	**93.51**	3.18	1.53	7.46	8.36	NS
	7/17/07	**109**	4.521	2.438	13.185	7.001	NS
	3/24/08	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	791
	8/11/11	0.270 U	0.330 U	0.320 U	0.870 U	0.320 U	2.00 U
	7/2/12	0.500 U	0.500 U	0.500 U	1.50 U	0.500 U	NS
	11/1/12	0.200 U	0.170 U	0.190 U	0.180 U	0.120 U	NS
	12/15/14	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	1/13/16	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS

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TABLE 2

GROUNDWATER ANALYTICAL SUMMARY
(BTEX/MTBE/TBA)

First Coast Energy No. 1801/Former Shell Service Station No. 100700
FDEP Facility ID No. 06/8731807

Sample Identification	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	TBA
NADC		**100**	**400**	**300**	**200**	**200**	**14,000**
GCTL		**1**	**40**	**30**	**20**	**20**	**1,400**
MW-22D*	9/19/05	U	U	U	U	0.64	100
(intermediate zone)	9/22/06	U	U	U	U	U	NS
(Destroyed)							
MW-22D-R	8/11/11	**2.36**	0.330 U	0.320 U	0.870 U	0.320 U	NS
(intermediate zone)	9/14/11	0.800 CF7I	0.550 CF7 I	0.500 U	1.77 CF7 I	0.500 U	NS
	7/2/12	0.500 U	0.500 U	0.500 U	1.50 U	0.500 U	NS
	11/1/12	0.200 U	0.170 U	0.190 U	0.180 U	0.120 U	NS
	12/15/14	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	4/15/15	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	7/15/15	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	10/13/15	0.34 U	0.45 U	0.26 U	1.3 U	0.41 U	NS
	1/13/16	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
MW-23	9/22/06	U	U	U	U	U	NS
(shallow zone)	3/30/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
	7/18/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
	8/11/11	0.270 U	0.330 U	0.320 U	0.870 U	0.320 U	NS
	7/2/12	0.500 U	0.500 U	0.500 U	1.50 U	0.500 U	NS
	11/1/12	0.200 U	0.170 U	0.190 U	0.180 U	0.120 U	NS
	12/16/14	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	4/16/15	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	7/16/15	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	10/14/15	0.34 U	0.45 U	0.26 U	1.3 U	0.41 U	NS
	1/13/16	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
MW-24	9/22/06	U	U	U	U	U	NS
(shallow zone)	3/30/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
	7/17/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
	9/14/11	0.500 U	0.500 U	0.500 U	1.50 U	0.500 U	NS
	7/2/12	0.500 U	0.500 U	0.500 U	1.50 U	0.500 U	NS
	11/1/12	0.200 U	0.170 U	0.190 U	0.180 U	0.120 U	NS
	12/16/14	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	4/16/15	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	7/16/15	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	10/14/15	0.34 U	0.45 U	0.26 U	1.3 U	0.41 U	NS
	1/14/16	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
MW-25	9/22/06	U	U	U	U	U	NS
	12/16/14	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
(shallow zone)	1/14/16	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS

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TABLE 2

GROUNDWATER ANALYTICAL SUMMARY
(BTEX/MTBE/TBA)

First Coast Energy No. 1801/Former Shell Service Station No. 100700
FDEP Facility ID No. 06/8731807

Sample Identification	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	TBA
NADC		**100**	**400**	**300**	**200**	**200**	**14,000**
GCTL		**1**	**40**	**30**	**20**	**20**	**1,400**
MW-26I*	3/30/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
(intermediate zone)	7/18/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
	3/24/08	**13.78**	<0.1601	0.1959 U	0.2310 U	**56.36**	**35,300**
	5/6/08	NS	NS	NS	NS	NS	**18,400**
	8/11/11	0.270 U	0.330 U	0.320 U	0.870 U	0.320 U	2.25 I
	12/17/14	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	1/13/16	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
MW-27I*	3/30/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
(intermediate zone)	7/17/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
	3/24/08	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	1,130
	12/16/14	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	4/16/15	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	7/16/15	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	10/14/15	0.34 U	0.45 U	0.26 U	1.3 U	0.41 U	NS
	1/14/16	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
MW-28I*	3/30/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
(45' zone)	7/17/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
(Abandoned)	3/24/08	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	2.00 U
MW-34I*	8/25/08	**3418**	19.86	9.430	**63.24**	**64.47**	772
(intermediate zone)	9/18/08	**51.42**	3.4	3.22	14.7	19.65	NS
	8/11/11	0.270 U	0.330 U	0.320 U	0.870 U	0.320 U	NS
	12/16/14	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	1/13/16	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
MW-35I	8/25/08	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	2.00 U
(intermediate zone)	12/16/14	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	1/14/16	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
MW-29D*	3/30/07	**150**	2.040	0.1959 U	7.555	**38.33**	NS
(deep zone)	6/1/07	**120**	3.42	1.73	8.16	**29.16**	NS
	7/17/07	**225**	2.327	1.490	10.239	**48.62**	NS
	3/24/08	**6.420**	0.1601 U	0.1959 U	1.070	**52.15**	**21,000**
	8/11/11	0.270 U	0.330 U	0.320 U	0.870 U	0.320 U	71.9
	7/2/12	0.500 U	0.500 U	0.500 U	1.50 U	0.500 U	114
	11/1/12	0.200 U	0.170 U	0.190 U	0.180 U	0.120 U	160
	12/15/14	**1.5**	0.49 U	14	1.1 U	0.24 U	NS
	1/13/16	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
MW-30D*	7/18/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	3.851	NS
(deep zone)	5/6/08	NS	NS	NS	NS	NS	653
	12/16/14	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	1/14/16	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS

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TABLE 2

GROUNDWATER ANALYTICAL SUMMARY
(BTEX/MTBE/TBA)

First Coast Energy No. 1801/Former Shell Service Station No. 100700
FDEP Facility ID No. 06/8731807

Sample Identification	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	TBA
NADC		**100**	**400**	**300**	**200**	**200**	**14,000**
GCTL		**1**	**40**	**30**	**20**	**20**	**1,400**
MW-31D*	7/18/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	13.49	NS
(deep zone)	5/6/08	NS	NS	NS	NS	NS	1,200
	8/11/11	0.270 U	0.330 U	0.320 U	0.870 U	0.320 U	NS
	12/17/14	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	1/14/16	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
MW-32D*	7/18/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
(deep zone)	5/6/08	NS	NS	NS	NS	NS	2.00 U
(Destroyed)							
MW-36D*	8/25/08	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	2.00 U
(deep zone)	12/16/14	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	1/13/16	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
MW-33D*	7/18/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
(deep zone)	5/6/08	NS	NS	NS	NS	NS	2.00 U
	12/16/14	0.36 U	0.51 I	0.38 U	1.1 U	0.24 U	NS
	1/14/16	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
MW-37I	10/20/08	0.2105 U	0.1601 U	0.1959 U	0.2310 U	NS	NS
(intermediate zone)							
(Destroyed)							
MW-38I	10/20/08	0.2105 U	0.1601 U	0.1959 U	0.2310 U	NS	NS
(intermediate zone)	12/16/14	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
	1/13/16	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS

NOTES:
All concentrations in micrograms per liter (µg/L)
BTEX - Benzene, Toluene, Ethylbenzene, Xylenes
CF7 - Result may be elevated due to carry over from previously analyzed sample.
GCTL - Groundwater Cleanup Target Level - Table I, Chapter 62-777, FAC.
I - The reported value is between the laboratory method detection limit and method reporting limit.
MDL - Method Detection Limit
MTBE - methyl-tert-butyl ether
NADC - Natural Attenuation Default Concentrations - Table V, Chapter 62-777, FAC.
NS - Not Sampled
TBA - Tert-butyl alcohol
U - Compound was analyzed for but not detected at the MDL level.
* - Indicates double cased well

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TABLE 3

GROUNDWATER ANALYTICAL SUMMARY
Polynuclear Aromatic Hydrocarbons

First Coast Energy No. 1801/Former Shell Service Station No. 100700
FDEP Facility ID No. 06/8731807

Sample Identification	Date Sampled	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	TRPH	EDB	Lead
NADC		**200**	**2100**	**21000**	**5**	**5**	**2100**	**50**	**20**	**480**	**0.5**	**2800**	**2800**	**5**	**280**	**280**	**140**	**2100**	**2100**	**50000**	**0.2**	
GCTL		**20**	**210**	**2100**	**0.05**	**0.05**	**210**	**0.5**	**0.2**	**4.8**	**0.005**	**280**	**280**	**0.05**	**28**	**28**	**14**	**210**	**210**	**5000**	**0.02**	**15**
OW-1	8/4/2005	U	U	U	U	U	U	U	U	U	U	U	U	U	0.27	0.52	1.1	U	U	460	NS	NS
(shallow interval)	9/22/2006	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.113	0.292	U	U	NS	NS	NS
(Destroyed)	3/30/2007	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	0.051 U	0.054 U	0.022 U	0.033 U	0.027 U	0.121	0.020 U	NS
	7/17/2007	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	1.67	0.297	0.690	0.033 U	0.027 U	NS	0.020 U	NS
OW-2	8/4/2005	U	U	U	U	U	U	U	U	U	U	U	U	U	66	110	520	U	U	3,500	0.89	2.82
(shallow interval)	9/22/2006	U	U	U	U	U	U	U	U	U	U	U	U	U	53.7	87	223	U	U	4410	NS	NS
(Destroyed)	3/29/2007	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	**30.8**	**42.1**	**39.7**	0.033 U	0.027 U	2.173	0.020 U	NS
	7/17/2007	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	**46.5**	**67.5**	**71.6**	0.033 U	0.027 U	NS	0.020 U	NS
OW-3	8/4/2005	0.28	U	U	U	0.46	U	U	U	U	U	U	U	U	51	95	520	U	0.53	5,400	NS	NS
(shallow interval)	9/22/2006	U	U	U	0.057	0.111	0.156	0.045	0.071	0.024	0.056	U	U	0.059	31.4	51.1	41.3	U	0.17	4080	NS	NS
(Destroyed)	3/29/2007	0.033 U	0.007 U	0.003 U	0.019	**0.148**	0.123	0.052	0.096	0.159	**0.014**	0.112	0.014 U	**0.125**	15.2	18.8	13.3	0.033 U	0.096	3.42	0.020 U	NS
	7/17/2007	0.033 U	0.007 U	0.003 U	**0.072**	**0.137**	0.106	0.047	0.084	0.148	0.003 U	0.319	0.014 U	**0.154**	2.44	0.054 U	0.022 U	0.033 U	0.198	NS	0.020 U	NS
MW-39	12/15/14	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.13 I	0.034 U	**29**	**29**	**22**	0.051 U	0.036 U	NS	NS	NS
(shallow interval)	04/15/15	0.17 I	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.078 I	0.034 U	6.6	2.4	13	0.051 U	0.036 U	NS	NS	NS
	07/15/15	0.074 I	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	2.5	0.64	0.70	0.051 U	0.036 U	NS	NS	NS
	10/13/15	0.034 U	0.039 U	0.035 U	0.032 U	0.040 U	0.048 U	0.048 U	0.037 U	0.033 U	0.036 U	0.037 U	0.032 U	0.031 U	0.83	0.90	1.2	0.037 U	0.036 U	NS	NS	NS
	01/13/16	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
OW-4	8/4/2005	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	480	NS	NS
(shallow interval)	3/30/2007	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	0.051 U	0.054 U	0.022 U	0.033 U	0.027 U	0.625	NS	NS
(Destroyed)	7/17/2007	0.033 U	0.007 U	0.003 U	0.003 U	0.052	0.026	0.018	0.03	0.063	0.003 U	0.042	0.014 U	0.047	0.051 U	0.054 U	0.022 U	0.033 U	0.059	NS	NS	NS
MW-41	07/02/12	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	NS	NS	NS
(shallow interval)	11/01/13	0.0190 U	0.0381 U	0.0190 U	0.0190 U	0.0190 U	0.286 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0381 U	0.0190 U	0.0190 U	0.00952 U	0.00952 U	0.0190 U	0.0571 U	0.0571 U	NS	NS	NS
	12/15/14	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.11 I	0.050 U	0.051 U	0.036 U	NS	NS	NS
	04/15/15	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	07/15/15	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.060 I	0.050 U	0.051 U	0.036 U	NS	NS	NS
	10/13/15	0.034 U	0.039 U	0.035 U	0.032 U	0.040 U	0.048 U	0.048 U	0.037 U	0.033 U	0.036 U	0.037 U	0.032 U	0.031 U	0.050 U	0.055 I	0.048 U	0.037 U	0.036 U	NS	NS	NS
	01/13/16	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
MW-40	07/02/12	0.0800 I	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 I	0.0700 I	0.0500 U	2.96	4.68	7.72	0.0600 I	0.0500 U	NS	NS	NS
(shallow interval)	11/01/13	0.102	0.0381 U	0.0190 U	0.0190 U	0.0190 U	0.286 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0538 I	0.0721 I	0.0190 U	4.66	8.490	13.10	0.0571 U	0.0571 U	NS	NS	NS
	12/15/14	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.14 I	0.034 U	**59**	**83**	3.2	0.051 U	0.036 U	NS	NS	NS
	04/15/15	0.17 I	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.040 I	0.084 I	0.034 U	17	16	0.68	0.055 I	0.040 I	NS	NS	NS
	07/15/15	0.24	0.037 I	0.038 I	0.037 I	0.030 U	0.033 U	0.033 U	0.032 U	0.039 I	0.029 U	0.13 I	0.18 I	0.034 U	**55**	**84**	10	0.25	0.036 U	NS	NS	NS
	10/13/15	0.10 I	0.039 U	0.035 U	0.032 U	0.040 U	0.048 U	0.048 U	0.037 U	0.033 U	0.036 U	0.037 U	0.050 I	0.031 U	9.0	8.5	8.2	0.041 I	0.036 U	NS	NS	NS
	01/13/16	0.10 I	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.075 I	0.034 U	20	13	0.67	0.052 I	0.036 U	NS	NS	NS
OW-5	08/04/05	0.27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	NS	NS	NS
(shallow interval)	12/16/14	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	04/15/15	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	07/15/15	0.048 U	0.030 U	0.022 U	0.039 I	0.030 U	0.033 U	0.033 U	0.032 U	0.042 I	0.029 U	0.060 I	0.039 I	0.034 U	0.055 I	0.097 I	0.088 I	0.051 U	0.038 I	NS	NS	NS
	10/13/15	0.034 U	0.039 U	0.035 U	0.032 U	0.040 U	0.048 U	0.048 U	0.037 U	0.033 U	0.036 U	0.037 U	0.032 U	0.031 U	0.050 U	0.053 U	0.048 U	0.037 U	0.036 U	NS	NS	NS
	01/13/16	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
OW-6	08/04/05	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	NS	NS	NS
(shallow interval)	12/16/14	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	01/13/16	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS

TABLE 3

GROUNDWATER ANALYTICAL SUMMARY
Polynuclear Aromatic Hydrocarbons

First Coast Energy No. 1801/Former Shell Service Station No. 100700
FDEP Facility ID No. 06/8731807

Sample Identification	Date Sampled	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	TRPH	EDB	Lead
NADC		**200**	**2100**	**21000**	**5**	**5**	**2100**	**50**	**20**	**480**	**0.5**	**2800**	**2800**	**5**	**280**	**280**	**140**	**2100**	**2100**	**50000**	**0.2**	
GCTL		**20**	**210**	**2100**	**0.05**	**0.05**	**210**	**0.5**	**0.2**	**4.8**	**0.005**	**280**	**280**	**0.05**	**28**	**28**	**14**	**210**	**210**	**5000**	**0.02**	**15**
OW-7	08/04/05	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	NS	NS	NS
(shallow interval)	12/16/14	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	01/13/16	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
OW-8	08/04/05	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	410	NS	NS
(shallow interval)	03/29/07	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	0.051 U	0.054 U	0.022 U	0.033 U	0.027 U	0.202	NS	NS
	07/17/07	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	0.051 U	0.054 U	0.022 U	0.033 U	0.027 U	NS	NS	NS
	08/11/11	0.0267 U	0.0238 U	0.0295 U	0.0171 U	0.0248 U	0.0229 U	0.0381 U	0.0305 U	0.0333 U	0.0229 U	0.0324 U	0.0238 U	0.0267 U	0.0210 U	0.0324 U	0.0238 U	0.0600 U	0.0238 U	NS	NS	NS
	12/16/14	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	04/15/15	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	07/15/15	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	10/13/15	0.034 U	0.039 U	0.035 U	0.032 U	0.040 U	0.048 U	0.048 U	0.037 U	0.033 U	0.036 U	0.037 U	0.032 U	0.031 U	0.050 U	0.075 I	0.051 I	0.037 U	0.036 U	NS	NS	NS
	01/13/16	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
OW-9	08/04/05	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	330	NS	NS
(shallow interval)	03/30/07	0.033 U	0.007 U	0.003 U	0.003 U	0.033	0.041	0.014	0.024	0.028	**0.005**	0.018	0.014 U	0.039	0.051 U	0.054 U	0.022 U	0.033 U	0.027	0.001 U	NS	NS
(Destroyed)	07/17/07	0.033 U	0.007 U	0.016	0.027	**0.050**	0.039	0.027	0.029	0.039	0.003 U	0.06	0.014 U	**0.054**	0.051 U	0.054 U	0.11	0.042	0.048	NS	NS	NS
OW-10	08/04/05	0.61	U	U	U	U	U	U	U	U	U	U	0.31	U	76	170	460	U	U	4,400	NS	NS
(shallow interval)	09/22/06	U	U	U	U	U	U	U	U	U	U	U	U	U	41.8	65.9	23.5	U	U	2649	NS	NS
	03/29/07	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	**46.9**	**69.0**	**75.8**	0.033 U	0.027 U	3.243	NS	NS
	07/17/07	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	**59.6**	**156**	**285**	0.033 U	0.027 U	NS	NS	NS
	08/11/11	0.324	0.0857 I	0.0295 U	0.0171 U	0.0248 U	0.0229 U	0.0381 U	0.0305 U	0.0333 U	0.0229 U	0.0324 U	0.190	0.0267 U	**70.5**	**104**	**164**	0.276	0.0762 I	NS	NS	NS
	07/02/12	0.0476 I	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	5.30	5.93	13.0	0.0476 U	0.0476 U	NS	NS	NS
	11/01/13	0.209	0.0381 U	0.200 I	0.0190 U	0.0190 U	0.286 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0381 U	0.0930 I	0.0190 U	**35.3**	**53.8**	**34.3**	0.0571 U	0.0571 U	NS	NS	NS
	12/16/14	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	12	17	5.5	0.094 I	0.036 U	NS	NS	NS
	04/15/15	0.10 I	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.053 I	0.034 U	2.5	2.5	6.5	0.051 U	0.036 U	NS	NS	NS
	07/15/15	0.18 I	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.041 I	0.11 I	0.034 U	22	**29**	**46**	0.079 I	0.038 I	NS	NS	NS
	10/13/15	0.034 U	0.039 U	0.035 U	0.032 U	0.040 U	0.048 U	0.048 U	0.037 U	0.033 U	0.036 U	0.037 U	0.032 U	0.031 U	1.3	1.8	3.8	0.037 U	0.036 U	NS	NS	NS
	01/13/16	0.072 I	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.066 I	0.034 U	12	20	11	0.051 U	0.036 U	NS	NS	NS
OW-11	08/04/05	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.25	U	U	330	NS	NS
(shallow interval)	03/29/07	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	0.051 U	0.054 U	0.070	0.033 U	0.027 U	0.484	NS	NS
(Abandoned)	07/17/07	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	0.051 U	0.054 U	0.083	0.033 U	0.027 U	NS	NS	NS
OW-12	08/04/05	0.6	U	0.34	U	U	U	U	U	U	U	U	0.39	U	95	230	670	U	U	3,900	NS	NS
(shallow interval)	09/22/06	U	U	U	U	U	U	U	U	U	U	U	U	U	83.5	166	736	U	U	9290	NS	NS
	03/29/07	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	**55.6**	**157**	**58.2**	0.033 U	0.027 U	2.578	NS	NS
	07/17/07	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	**72.4**	**226**	**510**	0.033 U	0.027 U	NS	0.020 U	NS
	08/11/11	0.311	0.0583 I	0.0301 U	0.0175 U	0.0252 U	0.0233 U	0.0388 U	0.0311 U	0.0340 U	0.0233 U	0.0330 U	0.194	0.0272 U	**41.7**	**95.4**	**47.8**	0.204	0.0243	NS	NS	NS
	07/02/12	0.160	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0900 I	0.0500 U	**40.4**	**67.8**	**188**	0.0700 I	0.0500 U	NS	NS	NS
	11/01/13	0.455	0.0771 I	0.200 I	0.0190 U	0.0190 U	0.286 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0381 U	0.233	0.0190 U	**104**	**196**	**229**	0.110	0.0571 U	NS	NS	NS
	12/15/14	0.33	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.24	0.034 U	**32**	**55**	10	0.051 U	0.036 U	NS	NS	NS
	04/15/15	0.13 I	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.083 I	0.034 U	11	17	**22**	0.051 U	0.036 U	NS	NS	NS
	07/15/15	0.090 I	0.030 U	0.022 U	0.040 I	0.050 I	0.074 I	0.049 I	0.061 I	0.047 I	0.029 U	0.069 I	0.071 I	0.082 I	3.7	4.2	3.7	0.16 I	0.036 U	NS	NS	NS
	10/13/15	0.034 U	0.039 U	0.035 U	0.032 U	0.040 U	0.048 U	0.048 U	0.037 U	0.033 U	0.036 U	0.037 U	0.032 U	0.031 U	0.050 U	0.053 U	0.048 U	0.037 U	0.036 U	NS	NS	NS
	01/13/16	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.049 I	0.045 I	0.18 I	0.051 U	0.036 U	NS	NS	NS

TABLE 3

GROUNDWATER ANALYTICAL SUMMARY
Polynuclear Aromatic Hydrocarbons

First Coast Energy No. 1801/Former Shell Service Station No. 100700
FDEP Facility ID No. 06/8731807

Sample Identification	Date Sampled	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	TRPH	EDB	Lead
NADC		**200**	**2100**	**21000**	**5**	**5**	**2100**	**50**	**20**	**480**	**0.5**	**2800**	**2800**	**5**	**280**	**280**	**140**	**2100**	**2100**	**50000**	**0.2**	
GCTL		**20**	**210**	**2100**	**0.05**	**0.05**	**210**	**0.5**	**0.2**	**4.8**	**0.005**	**280**	**280**	**0.05**	**28**	**28**	**14**	**210**	**210**	**5000**	**0.02**	**15**
OW-13D (Destroyed)	08/04/05	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.47	U	U	NS	NS	NS
(intermediate interval)																						
OW-14 (Abandoned)	08/04/05	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	NS	NS	NS
(shallow interval)																						
OW-15	09/19/05	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	NS	NS	NS
(shallow interval)	09/22/06	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.056	U	U	NS	NS	NS
	03/30/07	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	0.051 U	0.054 U	0.022 U	0.033 U	0.027 U	0.001 U	NS	NS
	07/17/07	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	0.051 U	0.054 U	0.110	0.033 U	0.027 U	NS	NS	NS
	09/14/11	0.0481 U	0.0481 U	0.0481 U	0.0481 U	0.0481 U	0.0481 U	0.0481 U	0.0481 U	0.0481 U	0.0481 U	0.0481 U	0.0481 U	0.0481 U	0.0481 U	0.0481 U	0.0481 U	0.0481 U	0.0481 U	NS	NS	NS
	07/02/12	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	NS	NS	NS
	11/01/13	0.0190 U	0.0381 U	0.0190 U	0.0190 U	0.0190 U	0.286 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0381 U	0.0190 U	0.0190 U	0.236	0.423	0.291	0.0571 U	0.0571 U	NS	NS	NS
	12/16/14	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	04/16/15	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	07/16/15	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	10/14/15	0.034 U	0.039 U	0.035 U	0.032 U	0.040 U	0.048 U	0.048 U	0.037 U	0.033 U	0.036 U	0.037 U	0.032 U	0.031 U	0.050 U	0.053 U	0.048 U	0.037 U	0.036 U	NS	NS	NS
	01/14/16	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
OW-16	09/19/05	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	NS	NS	NS
(shallow interval)	03/30/07	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	0.051 U	0.054 U	0.061	0.033 U	0.027 U	0.001 U	0.020 U	NS
	07/17/07	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	0.122	0.054 U	0.024	0.033 U	0.027 U	NS	NS	NS
	09/14/11	0.0513 U	0.0513 U	0.0513 U	0.0513 U	0.0513 U	0.0513 U	0.0513 U	0.0513 U	0.0513 U	0.0513 U	0.0513 U	0.0513 U	0.0513 U	0.0513 U	0.0513 U	0.0513 U	0.0513 U	0.0513 U	NS	NS	NS
	12/16/14	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	04/16/15	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	07/16/15	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	10/14/15	0.034 U	0.039 U	0.035 U	0.032 U	0.040 U	0.048 U	0.048 U	0.037 U	0.033 U	0.036 U	0.037 U	0.032 U	0.031 U	0.050 U	0.053 U	0.049 I	0.037 U	0.036 U	NS	NS	NS
	01/13/16	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
OW-16D	08/04/05	0.16	U	U	U	U	U	U	U	U	U	U	U	U	20	36	9.1	U	U	1,200	NS	NS
(intermediate interval)	03/29/07	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	0.051 U	0.054 U	0.109	0.033 U	0.027 U	0.106	NS	NS
(Abandoned)																						
OW-17	07/18/07	0.042 U	0.009 U	0.003 U	0.003 U	0.003 U	0.009 U	0.003 U	0.002 U	0.018	0.004 U	0.058	0.018 U	0.006 U	0.103	0.150	0.070	0.145	0.036	NS	NS	NS
(shallow interval)	12/16/14	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	01/14/16	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
MW-17	08/04/05	0.64	U	U	U	U	U	U	U	U	U	U	0.35	U	83	160	590	0.25	U	NS	NS	NS
(shallow interval)	09/22/06	U	U	U	U	U	U	U	U	U	U	U	U	U	22.2	38.6	87.9	U	U	NS	NS	NS
(Destroyed)	03/29/07	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	**64.3**	**240**	**705**	0.033 U	0.027 U	3.365	NS	NS
	07/17/07	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	**55.2**	**128**	**388**	0.033 U	0.027 U	NS	NS	NS
MW-17R	08/11/11	0.208	0.0248 U	0.0307 U	0.0178 U	0.0257 U	0.0238 U	0.0396 U	0.0317 U	0.0347 U	0.0238 U	0.0337 U	0.109	0.0277 U	19.8	**38.0**	**56.1**	0.891 I	0.0248 U	NS	NS	NS
	07/02/12	0.150	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0600 I	0.0500 U	19.8	24.0	**43.6**	0.0500 I	0.0500 I	NS	NS	NS
	11/01/13	0.315	0.0578 I	0.0223 I	0.0190 U	0.0190 U	0.286 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0381 U	0.156	0.0190 U	**51.4**	**89.4**	**53.3**	0.0755 I	0.0571 U	NS	NS	NS
	12/15/14	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	04/16/15	0.13 I	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.039 I	0.051 I	0.034 U	16	27	**35**	0.051 U	0.041 I	NS	NS	NS
	07/15/15	0.11 I	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.046 I	0.049 I	0.034 U	12	21	11	0.051 U	0.039 I	NS	NS	NS
	10/13/15	0.039 I	0.039 U	0.035 U	0.032 U	0.040 U	0.048 U	0.048 U	0.037 U	0.033 U	0.036 U	0.037 U	0.032 U	0.031 U	0.36	0.15 I	0.32	0.037 U	0.036 U	NS	NS	NS
	01/13/16	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.055 I	0.066 I	0.055 I	0.051 U	0.036 U	NS	NS	NS

TABLE 3

GROUNDWATER ANALYTICAL SUMMARY
Polynuclear Aromatic Hydrocarbons

First Coast Energy No. 1801/Former Shell Service Station No. 100700
FDEP Facility ID No. 06/8731807

Sample Identification	Date Sampled	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	TRPH	EDB	Lead
NADC		**200**	**2100**	**21000**	**5**	**5**	**2100**	**50**	**20**	**480**	**0.5**	**2800**	**2800**	**5**	**280**	**280**	**140**	**2100**	**2100**	**50000**	**0.2**	
GCTL		**20**	**210**	**2100**	**0.05**	**0.05**	**210**	**0.5**	**0.2**	**4.8**	**0.005**	**280**	**280**	**0.05**	**28**	**28**	**14**	**210**	**210**	**5000**	**0.02**	**15**
MW-18	08/04/05	0.66	U	U	U	U	U	U	U	U	U	U	0.41	U	120	300	1,100	0.27	U	12,000	NS	NS
(shallow interval)	09/22/06	U	U	U	U	U	U	U	U	U	U	U	U	U	113	200	339	U	U	7610	NS	NS
(Destroyed)	03/29/07	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	**78.9**	**265**	**162**	0.033 U	0.027 U	6.15	NS	NS
MW-18R	07/17/07	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	**97.0**	**431**	**644**	0.033 U	0.027 U	NS	NS	NS
(shallow interval)	08/11/11	0.560	0.100	0.0310 U	0.0180 U	0.0260 U	0.0240 U	0.0400 U	0.0320 U	0.0350 U	0.0240 U	0.0340 U	0.340	0.0280 U	**71.5**	**180**	**116**	0.220	0.0250 U	NS	NS	NS
	07/02/12	0.370	0.0600 I	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.200	0.0500 U	**75.0**	**154**	**194**	0.170	0.0500 U	NS	NS	NS
	11/01/13	0.667	0.112	0.0190 U	0.0190 U	0.0190 U	0.286 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0381 U	0.363	0.0190 U	**119**	**237**	**217**	0.270	0.0571 U	NS	NS	NS
	12/15/14	0.47	0.10 I	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.32	0.034 U	**120**	**230**	**96**	0.051 U	0.036 U	NS	NS	NS
	04/16/15	0.56	0.095 I	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.034	0.034 U	**160**	**270**	**50**	0.36	0.036 U	NS	NS	NS
	07/15/15	0.94 I	0.32 I	0.50 I	0.68 I	0.55 I	0.53 I	0.56 I	0.55 I	0.64 I	0.51 I	0.59 I	0.77 I	0.55 I	**140**	**280**	**180**	0.77 I	0.52 I	NS	NS	NS
	10/13/15	0.74	0.12 I	0.035 U	0.032 U	0.040 U	0.048 U	0.048 U	0.037 U	0.033 U	0.036 U	0.037 U	0.44	0.031 U	**95**	**210**	**270**	0.38	0.036 U	NS	NS	NS
	01/13/16	0.50 I	0.30 U	0.22 U	0.26 U	0.30 U	0.33 U	0.33 U	0.32 U	0.27 U	0.29 U	0.36 U	0.37 I	0.34 U	**130**	**290**	**360**	0.51 U	0.36 U	NS	NS	NS
MW-19	08/04/05	U	U	U	U	U	U	U	U	U	U	U	U	U	0.15	0.34	1.3	U	U	NS	NS	NS
(shallow interval)	09/22/06	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.060	U	U	NS	NS	NS
(Destroyed)	03/29/07	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	0.051 U	0.085	0.077	0.033 U	0.027 U	0.001 U	NS	NS
	07/17/07	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	0.053	0.109	0.376	0.033 U	0.027 U	NS	NS	NS
MW-19R	08/11/11	0.0280 U	0.0250 U	0.0310 U	0.0180 U	0.0260 U	0.0240 U	0.0400 U	0.0320 U	0.0350 U	0.0240 U	0.0340 U	0.0250 U	0.0280 U	0.140	0.330	0.240	0.0630 U	0.0250 U	NS	NS	NS
(shallow interval)	07/02/12	0.120	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	20.9	**33.8**	**20.4**	0.0500 U	0.0500 U	NS	NS	NS
	11/01/13	0.110	0.0381 U	0.0190 U	0.0190 U	0.0190 U	0.286 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0381 U	0.0190 U	0.0190 U	4.33	0.506	0.970	0.0571 U	0.0571 U	NS	NS	NS
	12/16/14	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	04/15/15	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	07/15/15	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	10/13/15	0.034 U	0.039 U	0.035 U	0.032 U	0.040 U	0.048 U	0.048 U	0.037 U	0.033 U	0.036 U	0.037 U	0.032 U	0.031 U	0.050 U	0.053 U	0.048 U	0.037 U	0.036 U	NS	NS	NS
	01/13/16	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
MW-20	09/19/05	U	U	U	U	U	U	U	U	U	U	U	U	U	24	32	110	U	U	NS	NS	NS
(shallow interval)	03/29/07	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	**69.1**	**96.4**	4.42	0.033 U	0.027 U	3.05	NS	NS
	07/17/07	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	26.8	26.6	0.967	0.033 U	0.027 U	NS	NS	NS
	08/11/11	0.0795 I	0.0248 U	0.0307 U	0.0178 U	0.0257 U	0.0238 U	0.0396 U	0.0317 U	0.0347 U	0.0238 U	0.0337 U	0.0495 I	0.0277 U	4.90	5.19	0.208	0.0624 U	0.0248 U	NS	NS	NS
	12/15/14	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	04/15/15	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.24	0.048 I	0.97	0.051 U	0.036 U	NS	NS	NS
	07/15/15	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.048 I	0.034 U	0.11 I	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	10/13/15	0.034 U	0.039 U	0.035 U	0.032 U	0.040 U	0.048 U	0.048 U	0.037 U	0.033 U	0.036 U	0.037 U	0.032 U	0.031 U	0.050 U	0.078 I	0.10 I	0.037 U	0.036 U	NS	NS	NS
	01/13/16	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
MW-21D*	09/19/05	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.25	U	U	NS	NS	NS
(intermediate interval)	09/22/06	U	U	U	U	U	U	U	U	U	U	U	U	U	39.4	72.1	73.9	U	U	NS	NS	NS
	03/29/07	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	**28.2**	**37.7**	**43.9**	0.033 U	0.027 U	1.208	NS	NS
	07/17/07	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	**45.6**	**45.8**	**0.682**	0.033 U	0.027 U	NS	NS	NS
	08/11/11	0.0267 U	0.0238 U	0.0295 U	0.0171 U	0.0248 U	0.0229 U	0.0381 U	0.0305 U	0.0333 U	0.0229 U	0.0324 U	0.0238 U	0.0267 U	0.0210 U	0.0324 U	0.0238 U	0.0600 U	0.0238 U	NS	NS	NS
	07/02/12	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	NS	NS	NS
	11/01/13	0.0190 U	0.0381 U	0.0190 U	0.0190 U	0.0190 U	0.286 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0381 U	0.0190 U	0.0190 U	0.00952 U	0.00952 U	0.0190 U	0.0571 U	0.0571 U	NS	NS	NS
	12/15/14	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	01/13/16	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.72 I	0.044 U	0.38	0.051 U	0.036 U	NS	NS	NS

TABLE 3

GROUNDWATER ANALYTICAL SUMMARY
Polynuclear Aromatic Hydrocarbons

First Coast Energy No. 1801/Former Shell Service Station No. 100700
FDEP Facility ID No. 06/8731807

Sample Identification	Date Sampled	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	TRPH	EDB	Lead
NADC		**200**	**2100**	**21000**	**5**	**5**	**2100**	**50**	**20**	**480**	**0.5**	**2800**	**2800**	**5**	**280**	**280**	**140**	**2100**	**2100**	**50000**	**0.2**	
GCTL		**20**	**210**	**2100**	**0.05**	**0.05**	**210**	**0.5**	**0.2**	**4.8**	**0.005**	**280**	**280**	**0.05**	**28**	**28**	**14**	**210**	**210**	**5000**	**0.02**	**15**
MW-22D*	09/19/05	U	U	U	U	U	U	U	U	U	U	U	U	U	0.23	0.35	0.39	U	U	NS	NS	NS
(intermediate interval)	09/22/06	U	U	U	U	U	U	U	U	U	U	U	0.042	U	U	U	0.028	U	U	NS	NS	NS
(Destroyed)																						
MW-22D-R	08/11/11	0.0571 I	0.0238 U	0.0295 U	0.0171 U	0.0248 U	0.0229 U	0.0381 U	0.0305 U	0.0333 U	0.0229 U	0.0324 U	0.105	0.0267 U	0.295	0.0324 U	2.08	0.0600 U	0.0238 U	NS	NS	NS
	07/02/12	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.0526 U	NS	NS	NS
	11/01/13	0.0190 U	0.0381 U	0.0190 U	0.0190 U	0.0190 U	0.286 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0381 U	0.0190 U	0.0190 U	0.00952 U	0.00952 U	0.0190 U	0.0571 U	0.0571 U	NS	NS	NS
	12/15/14	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	04/15/15	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	4.0	1.8	0.36	0.051 U	0.036 U	NS	NS	NS
	07/15/15	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.095 I	0.062 I	0.050 U	0.051 U	0.036 U	NS	NS	NS
	10/13/15	0.034 U	0.039 U	0.035 U	0.032 U	0.040 U	0.048 U	0.048 U	0.037 U	0.033 U	0.036 U	0.037 U	0.032 U	0.031 U	0.050 U	0.070 I	0.12 I	0.037 U	0.036 U	NS	NS	NS
	01/13/16	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.10 I	0.051 U	0.036 U	NS	NS	NS
MW-23	09/22/06	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.062	U	U	U	NS	NS
(shallow interval)	03/30/07	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	0.051 U	0.054 U	0.022 U	0.033 U	0.027 U	0.001 U	NS	NS
	07/18/07	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	0.051 U	0.054 U	0.022 U	0.033 U	0.027 U	NS	NS	NS
	07/02/12	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0667 I	0.0476 U	0.0476 U	NS	NS	NS
	11/01/13	0.0190 U	0.0381 U	0.0190 U	0.0190 U	0.0190 U	0.286 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0381 U	0.0190 U	0.0190 U	0.00952 U	0.00952 U	0.0190 U	0.0571 U	0.0571 U	NS	NS	NS
	12/16/14	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	04/16/15	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	07/16/15	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	10/14/15	0.034 U	0.039 U	0.035 U	0.032 U	0.040 U	0.048 U	0.048 U	0.037 U	0.033 U	0.036 U	0.037 U	0.032 U	0.031 U	0.050 U	0.061 I	0.067 I	0.037 U	0.036 U	NS	NS	NS
	01/13/16	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
MW-24	09/22/06	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.038	U	U	U	NS	NS
(shallow interval)	03/30/07	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	0.051 U	0.054 U	0.022 U	0.033 U	0.027 U	0.001 U	NS	NS
	07/17/07	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	0.051 U	0.054 U	0.059	0.033 U	0.027 U	NS	NS	NS
	09/14/11	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	NS	NS	NS
	07/02/12	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	NS	NS	NS
	11/01/13	0.0190 U	0.0381 U	0.0190 U	0.0190 U	0.0190 U	0.286 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0381 U	0.0190 U	0.0190 U	0.00952 U	0.00952 U	0.0190 U	0.0571 U	0.0571 U	NS	NS	NS
	12/16/14	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	04/16/15	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	07/16/15	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	10/14/15	0.034 U	0.039 U	0.035 U	0.032 U	0.040 U	0.048 U	0.048 U	0.037 U	0.033 U	0.036 U	0.037 U	0.032 U	0.031 U	0.050 U	0.056 I	0.048 U	0.037 U	0.036 U	NS	NS	NS
	01/14/16	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
MW-25	09/22/06	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.075	0.122	U	U	U	NS	NS
(shallow interval)	12/16/14	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	01/14/16	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
MW-26I*	03/30/07	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	0.051 U	0.054 U	0.078	0.033 U	0.027 U	0.001 U	NS	NS
(intermediate interval)	07/18/07	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	0.051 U	0.054 U	0.078	0.033 U	0.027 U	NS	NS	NS
	12/17/14	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	01/13/16	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
MW-27I*	03/30/07	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	0.051 U	0.054 U	0.027	0.033 U	0.027 U	0.001 U	NS	NS
(intermediate interval)	07/17/07	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	0.051 U	0.054 U	0.029	0.033 U	0.027 U	NS	NS	NS
	12/16/14	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	04/16/15	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	07/16/15	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	10/14/15	0.034 U	0.039 U	0.035 U	0.032 U	0.040 U	0.048 U	0.048 U	0.037 U	0.033 U	0.036 U	0.037 U	0.032 U	0.031 U	0.050 U	0.060 I	0.14 I	0.037 U	0.036 U	NS	NS	NS
	01/14/16	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS

TABLE 3

GROUNDWATER ANALYTICAL SUMMARY
Polynuclear Aromatic Hydrocarbons

First Coast Energy No. 1801/Former Shell Service Station No. 100700
FDEP Facility ID No. 06/8731807

Sample Identification	Date Sampled	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	TRPH	EDB	Lead
NADC		**200**	**2100**	**21000**	**5**	**5**	**2100**	**50**	**20**	**480**	**0.5**	**2800**	**2800**	**5**	**280**	**280**	**140**	**2100**	**2100**	**50000**	**0.2**	
GCTL		**20**	**210**	**2100**	**0.05**	**0.05**	**210**	**0.5**	**0.2**	**4.8**	**0.005**	**280**	**280**	**0.05**	**28**	**28**	**14**	**210**	**210**	**5000**	**0.02**	**15**
MW-28I*	03/30/07	0.129	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.013	0.014 U	0.005 U	0.077	0.133	0.104	0.033 U	0.027 U	0.001 U	NS	NS
(intermediate interval)	07/17/07	0.041	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.017	0.039	0.005 U	0.053 U	0.056 U	0.023 U	0.051	0.028 U	NS	NS	NS
(Abandoned)																						
MW-29D*	03/30/07	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	1.59	1.41	0.191	0.033 U	0.027 U	0.17	NS	NS
(deep interval)	07/17/07	0.034 U	0.008 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.004 U	0.003 U	0.014 U	0.005 U	6.77	8.43	0.331	0.034 U	0.027 U	NS	NS	NS
	07/02/12	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.100	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	NS	NS	NS
	11/01/13	0.0190 U	0.0381 U	0.0190 U	0.0190 U	0.0190 U	0.286 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0381 U	0.0190 U	0.0190 U	0.00952 U	0.00952 U	0.0190 U	0.0571 U	0.0571 U	NS	NS	NS
	12/15/14	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.064 I	0.050 U	0.051 U	0.036 U	NS	NS	NS
	01/13/16	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.10 I	0.051 U	0.036 U	NS	NS	NS
MW-30D*	07/18/07	0.271	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	1.08	0.005 U	0.052 U	0.055 U	0.022 U	0.105	0.027 U	NS	NS	NS
(deep interval)	12/16/14	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	01/14/16	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
MW-31D*	07/18/07	0.033 U	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.003 U	0.014 U	0.005 U	0.277	0.184	0.148	0.033 U	0.027 U	NS	NS	NS
(deep interval)	12/17/14	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
	01/14/16	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.15 I	0.051 U	0.036 U	NS	NS	NS
MW-32D* (Destroyed)	07/18/07	0.185	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.094	0.275	0.005 U	2.53	2.72	1.03	0.520	0.078	NS	NS	NS
(deep interval)																						
MW-33D*	07/18/07	0.858	0.007 U	0.003 U	0.003 U	0.002 U	0.009 U	0.003 U	0.002 U	0.004 U	0.003 U	0.035	0.779	0.005 U	0.051 U	0.054 U	0.022 U	0.108	0.027 U	NS	NS	NS
(deep interval)	12/16/14	0.054 U	0.034 U	0.025 U	0.029 U	0.034 U	0.037 U	0.036 U	0.035U	0.030 U	0.032 U	0.040 U	0.040 U	0.037 U	0.046 U	0.049 U	0.055 U	0.056 U	0.040 U	NS	NS	NS
	01/14/16	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
MW-34I*	12/16/14	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.47	0.034 U	0.27	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
(intermediate interval)	01/13/16	0.093 I	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.24	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
MW-35I	12/16/14	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
(intermediate interval)	01/14/16	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
MW-36D	12/16/14	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
(deep interval)	01/13/16	0.048 U	0.030 U	0.022 U	0.037 I	0.030 U	0.054 I	0.033 U	0.053 I	0.035 I	0.029 U	0.12 I	0.036 U	0.058 I	0.041 U	0.044 U	0.050 U	0.051 U	0.090 I	NS	NS	NS
MW-38I	12/16/14	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS
(intermediate interval)	01/13/16	0.048 U	0.030 U	0.022 U	0.026 U	0.030 U	0.033 U	0.033 U	0.032 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.041 U	0.044 U	0.050 U	0.051 U	0.036 U	NS	NS	NS

NOTES:

All concentrations in micrograms per liter (µg/L)

GCTL - Groundwater Cleanup Target Level - Table I, Chapter 62-777, FAC.

I - The reported value is between the laboratory method detection limit and method reporting limit.

MDL - Method Detection Limit

NADC - Natural Attenuation Default Concentrations - Table V, Chapter 62-777, FAC.

NS - Not Sampled

TBA - Tert-butyl alcohol

U - Compound was analyzed for but not detected at the MDL level.

* - Indicates double cased well

DRAFT

APPENDIX A

FIELD NOTES,
GROUNDWATER SAMPLING LOGS
& CALIBRATION LOGS

DRAFT

Tel: 352.796.3374 ● Fax: 352.796.2449
info@creativeenvironmental.com

TUES. 1-12-2016

PARTLY CLOUDY/COOL 72° EST.

ATC-5022A
FACIO# 8731807

C. ISENHOUR
C. LEACH

390 S. POWERLINE RD. DEERFIELD BEACH, FL.

(19)

SHELL FIRST COAST ENERGY #1801

11:30	LEAVE OFFICE			
15:48	ARRIVE ON SITE			
15:53	LOOK OVER & SIGN HASP			
15:55	LOCATE AND VENT WELLS.			
DTW'S	OW-5 = 4.84		MW-24 = 4.42	
16:20	OW-6 = 4.87		MW-25 = 4.71	
	OW-7 = 5.07		MW-26I = 4.28	
	OW-8 = 5.83		MW-27I = 3.81	
	OW-10 = 5.67		MW-38I = 4.41	
	OW-12 = 5.52		MW-29D = 5.67	
	OW-15 = 4.05		MW-30D = 4.44	
	OW-16 = 4.31		MW-31D = 4.04	
	OW-17 = 4.07		MW-33D = 4.55	
	MW-17R = 4.60		MW-34I = 4.22	
	MW-18R = 5.15		MW-35I = ~~4.88~~ 5.75	
	MW-19R = 4.72		MW-36D = 4.48	
	MW-20 = 5.25		MW-39 = 5.56	
	MW-21D = 5.60		MW-40 = 5.27	
	MW-22D-R = 4.86		MW-41 = 4.87	
	MW-23 = 4.47			
17:00	LEAVE SITE			
17:15	ARRIVE AT HOTEL.			

5.75 hrs
LWS

BLANK

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Creative Environmental Solutions, Inc.

WATER LEVEL GAUGING REPORT

Project #: ATC-5022A

Client:

Project Name: Shell First Coast Energy #1801

Address: 390 S. Power Line Road

City: Deerfield Beach State: FL

DATE	TIME	Station ID	TOC Elev (ft-als)	Total Depth (ft-bls)	Depth to Water (feet)	Depth to Product (feet)	Comment
1-12-16	16:20	OW-5			4.84		
		OW-6			4.87		
		OW-7			5.07		
		OW-8			5.83		
		OW-10			5.67		
		OW-12			5.52		
		OW-15			4.05		
		OW-16			4.31		
		OW-17			4.07		
		MW-17R			4.60		
		MW-18R			5.15		
		MW-19R			4.72		
		MW-20			5.25		
		MW-21D			5.60		
		MW-22DR			4.86		
		MW-23			4.47		
		MW-24			4.42		
		MW-25			4.71		
		MW-26I			4.28		
		MW-27I			3.81		
		MW-38I			4.41		
		MW-29D			5.67		
		MW-30D			4.44		
		MW-31D			4.04		
		MW-33D			4.55		

ft-msl = mean sea level in feet

DRAFT

Creative Environmental Solutions, Inc.

WATER LEVEL GAUGING REPORT

Project #: ATC-5022A

Client:

Project Name: Shell First Coast Energy #1801

Address: 390 S. Powerline Road

City: Deerfield Beach State: FL

DATE	TIME	Station ID	TOC Elev (ft-als)	Total Depth (ft-bls)	Depth to Water (feet)	Depth to Product (feet)	Comment
1-12-16	16:20	MW-34I			4.22		
		MW-35I			~~4.38~~	5.75	
		MW-36D			4.48		
		MW-39			5.56		
		MW-40			5.27		
↓	↓	MW-41			4.87		

ft-msl = mean sea level in feet

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WED. PARTLY CLOUDY/COOL 56° EST.

ATC 5022A
FACID# 8731807

C. ISENHOUR
C. LEACH

(20)

1-13-2016	SHELL FIRST COAST ENERGY # 1801
07:30	LEAVE HOTEL
07:45	ARRIVE ON SITE
07:50	LOOK OVER & SIGN HASP.
08:00	CALIBRATE YSI & HACH
	* SEE CALIBRATION LOG SHEET.
08:45	START PURGE MW-20
08:58	END PURGE MW-20
09:00	SAMPLE MW-20
	* SEE GW SAMPLING LOG SHEET.
09:16	START PURGE MW-18R
09:28	END PURGE MW-18R
09:30	SAMPLE MW-18R
	* SEE GW SAMPLING LOG SHEET.
09:45	START PURGE MW-41
10:05	END PURGE MW-41
10:07	SAMPLE MW-41
	* SEE GW SAMPLING LOG SHEET.
11:02	START PURGE MW-21D
11:19	END PURGE MW-21D
11:21	SAMPLE MW-21D
	* SEE GW SAMPLING LOG SHEET
11:38	START PURGE OW-12
11:54	END PURGE OW-12
11:56	SAMPLE OW-12
	* SEE GW SAMPLING LOG SHEET
12:14	START PURGE MW-29D

390 S. POWERLINE RD. DEERFIELD BEACH, FL.

12:24	END PURGE MW-29D
12:26	SAMPLE MW-29D
	* SEE GW SAMPLING LOG SHEET.
12:57	START PURGE MW-39
13:10	END PURGE MW-39
13:12	SAMPLE MW-39
	* SEE GW SAMPLING LOG SHEET.
13:29	START PURGE MW-19R
13:42	END PURGE MW-19R
13:44	SAMPLE MW-19R
	* SEE GW SAMPLING LOG SHEET.
10:22	START PURGE MW-40
10:34	END PURGE MW-40
10:36	SAMPLE MW-40
	* SEE GW SAMPLING LOG SHEET.
14:17	START PURGE MW-36D
14:26	END PURGE MW-36D
14:28	SAMPLE MW-36D
	* SEE GW SAMPLING LOG SHEET.
15:07	START PURGE MW-38I
15:19	END PURGE MW-38I
15:21	SAMPLE MW-38I
	* SEE GW SAMPLING LOG SHEET.
15:38	START PURGE MW-23
15:50	END PURGE MW-23

CONT. →

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Partly Cloudy / cool 56° EST.

ATC - 50224
FACID # 873807

C. ITCHAVQ
C. LEACH

WED.
1-13-2016 SHELL FIRST COAST ENERGY #1801 — 3905 S. POWERLINE RD. DEERFIELD BEACH, FL. (21)

15:52 SAMPLE MW-23
* SEE GW SAMPLING LOG SHEET.

16:13 START PURGE MW 26I

16:22 END PURGE MW 26I

16:24 SAMPLE MW-26I
* SEE GW SAMPLING LOG SHEET.

16:48 POST CALIBRATE YSI & HACH.
* SEE CALIBRATION LOG SHEET.

PACK TRUCK | CLEAN UP

17:10 LEAVE SITE

17:30 ARRIVE AT HOTEL - DONE.

10 HRS

BLANK

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Web Party Cloudy & Cool 56° EST
1-13-16 Shell - First Coast Energy #1801
08:43 Start Purge OW-5
08:58 END Purge OW-5
08:59 Sample OW-5
*See GW Sampling Log Sheet
09:07 Decon Pump & move
09:22 Start Purge OW-6
09:39 END Purge OW-6
09:40 Sample OW-6
*See GW Sampling Log Sheet
09:45 Decon Pump & move
09:59 Start Purge OW-7
10:24 END Purge OW-7
10:25 Sample OW-7
*See GW Sampling Log Sheet
10:37 Decon Pump & move
10:58 Start Purge OW-8
11:18 END Purge OW-8
11:19 Sample OW-8
*See GW Sampling Log Sheet
11:25 Decon Pump & move
11:40 Start Purge OW-10
12:01 END Purge OW-10
12:02 Sample OW-10
*See GW Sampling Log Sheet
12:10 Decon Pump

C. Leach ATC-5022A / FACID# 068731807
390 S. Powerline Rd., Deerfield Beach, Fl (40)
13:03 Start Purge MW-22DR
13:22 END Purge MW-22DR
13:23 Sample MW-22DR
*See GW Sampling Log Sheet
12:30-13:00 Lunch
13:43 Start Purge MW-17R
14:02 END Purge MW-17R
14:03 Sample MW-17R
*See GW Sampling Log Sheet
15:28 Start Purge MW-34I
15:38 END Purge MW-34I
15:39 Sample MW-34I
*See GW Sampling Log Sheet
16:04 Start Purge OW-16
16:27 END Purge OW-16
16:28 Sample OW-16
*See GW Sampling Log Sheet
Calibrate YSI & Hach
*See calibration Log Sheet

Field Instrument Calibration Records

Project Name/Number Shell First Coast Energy #1801 **Date** 1/13/2016
ATC-5022A FACID # 8731807.

Instrument (Make/Model #)	YSI Pro					Instrument	LEASE 556
Parameter: Temperature							
Standard A: YSI Standard Solution/Pine Environmental/10-2016/No Standard							
Time	STD	STD Value	Instrument Response	% Dev	Calibrated	Type	Sampler Initials
08:00	A	N/A	15.91	N/A	YES	INIT	cl
16:48	A	N/A	22.24	N/A	YES	CONT	cl
Instrument (Make/Model #) YSI Pro							
Parameter: Conductivity							
Standard A: YSI Standard Solution/Pine Environmental/10-2016/1,413 uS/cm							
Time	STD	STD Value	Instrument Response	% Dev	Calibrated	Type	Sampler Initials
08:00	A	1,413	1414	.07	YES	INIT	cl
16:48	A	1,413	1414	.07	YES	CONT	cl
Instrument (Make/Model #) YSI Pro							
Parameter: PH							
Standard A,B,C: YSI Pro pH 4.00, pH 7.00; pH 10.00 Standard Solutions/Pine Environmental/10-2016/4.00, 7.00 & 10.00							
Time	STD	STD Value	Instrument Response	% Dev	Calibrated	Type	Sampler Initials
08:00	A	4.00	3.99	.25	YES	INIT	cl
↓	B	7.00	7.00	Ø	YES	INIT	cl
↓	C	10.00	10.00	Ø	YES	INIT	cl
16:48	A	4.00	4.00	Ø	YES	CONT	cl
↓	B	7.00	6.99	.14	YES	CONT	cl
↓	C	10.00	10.00	Ø	YES	CONT	cl
Instrument (Make/Model #) YSI Pro							
Parameter: DO							
Standard A, B: YSI Standard Solution/Pine Environmental/10-2016/0% (Solution) & 100% (Fresh Air)							
Time	STD	STD Value	Instrument Response	% Dev	Calibrated	Type	Sampler Initials
08:00	A	0%	0	Ø	YES	INIT	cl
↓	B	100%	99.7	.30	YES	INIT	cl
16:48	A	0%	0	Ø	YES	CONT	cl
↓	B	100%	99.8	.20	YES	CONT	cl
Instrument (Make/Model #) YSI Pro							
Parameter: ORP							
Standard A: Hanna Standard Solution/Pine Environmental/09-2019/240mV@25 Degrees C							
Time	STD	STD Value	Instrument Response	% Dev	Calibrated	Type	Sampler Initials
08:00	A	240	240.1	.04	YES	INIT	cl
16:48	A	240	240.1	.04	YES	CONT	cl
Instrument (Make/Model #) Hach 2100Q						**Instrument**	C
Parameter: Turbidity							
Standard A:800 NTU Standard B:100 NTU Standard C:20.0 NTU Standard D:10.0 NTU: Stablcal Formazin Turbidty Standard Solutions/ Pine Environmental 07-2016							
Time	STD	STD Value	Instrument Response	% Dev	Calibrated	Type	Sampler Initials
08:00	A	800	798	.25	YES	INIT	cl
↓	B	100	100	Ø	YES	INIT	cl
↓	C	20.0	20.1	.50	YES	INIT	cl
↓	D	10.0	10.1	1	YES	INIT	cl
Time	STD	STD Value	Instrument Response	% Dev	Calibrated	Type	Sampler Initials
16:48	A	800	798	.25	YES	CONT	cl
↓	B	100	100	Ø	YES	CONT	cl
↓	C	20.0	20	Ø	YES	CONT	cl
↓	D	10.0	10.1	1	YES	CONT	cl

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Field Instrument Calibration Records

Project Name/Number Shell-First Coast Energy #1801 **Date** 1/13/16

ATC-5022A

Instrument (Make/Model #) YSI Pro **Instrument** C

Parameter: Temperature

Standard A: YSI Standard Solution/Pine Environmental/10-2016/No Standard

Time	STD	STD Value	Instrument Response	% Dev	Calibrated	Type	Sampler Initials
08:00	A	N/A	15.7	N/A	YES	INIT	CL
16:48	A	N/A	22.1	N/A	YES	CONT	CL

Instrument (Make/Model #) YSI Pro

Parameter: Conductivity

Standard A: YSI Standard Solution/Pine Environmental/10-2016/1,413 uS/cm

Time	STD	STD Value	Instrument Response	% Dev	Calibrated	Type	Sampler Initials
08:00	A	1,413	1413	0	YES	INIT	CL
16:48	A	1,413	1416	.21	YES	CONT	CL

Instrument (Make/Model #) YSI Pro

Parameter: PH

Standard A,B,C: YSI Pro pH 4.00, pH 7.00, pH 10.00 Standard Solutions/Pine Environmental/10-2016/4.00, 7.00 & 10.00

Time	STD	STD Value	Instrument Response	% Dev	Calibrated	Type	Sampler Initials
08:00	A	4.00	4.03	.74	YES	INIT	CL
↓	B	7.00	7.01	.14	YES	INIT	CL
↓	C	10.00	10.01	.99	YES	INIT	CL
16:48	A	4.00	4.02	.50	YES	CONT	CL
↓	B	7.00	7.00	0	YES	CONT	CL
↓	C	10.00	10.03	.30	YES	CONT	CL

Instrument (Make/Model #) YSI Pro

Parameter: DO

Standard A, B: YSI Standard Solution/Pine Environmental/10-2016/0% (Solution) & 100% (Fresh Air)

Time	STD	STD Value	Instrument Response	% Dev	Calibrated	Type	Sampler Initials
08:00	A	0%	0	0	YES	INIT	CL
↓	B	100%	99.6	.4	YES	INIT	CL
16:48	A	0%	0	0	YES	CONT	CL
↓	B	100%	99.4	.6	YES	CONT	CL

Instrument (Make/Model #) YSI Pro

Parameter: ORP

Standard A: Hanna Standard Solution/Pine Environmental/09-2019/240mV@25 Degrees C

Time	STD	STD Value	Instrument Response	% Dev	Calibrated	Type	Sampler Initials
08:00	A	240	245.5	2.24	YES	INIT	CL
16:48	A	240	241.3	.54	YES	CONT	CL

Instrument (Make/Model #) Hach 2100Q **Instrument** D

Parameter: Turbidity

Standard A:800 NTU Standard B:100 NTU Standard C:20.0 NTU Standard D:10.0 NTU: Stablcal Formazin Turbidty Standard Solutions/ Pine Environmental 07-2016

Time	STD	STD Value	Instrument Response	% Dev	Calibrated	Type	Sampler Initials
08:00	A	800	791	1.13	YES	INIT	CL
↓	B	100	100	0	YES	INIT	CL
↓	C	20.0	20.0	0	YES	INIT	CL
↓	D	10.0	10.1	.99	YES	INIT	CL
Time	STD	STD Value	Instrument Response	% Dev	Calibrated	Type	Sampler Initials
16:48	A	800	793	.88	YES	CONT	CL
↓	B	100	98.6	1.4	YES	CONT	CL
↓	C	20.0	19.6	2.0	YES	CONT	CL
↓	D	10.0	10.3	2.91	YES	CONT	CL

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☐ **Miramar:** 10200 USA Today Way • Miramar, FL 33025 • 954.889.2288 • Fax 954.889.2281
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☐ **Tampa:** 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9616 • Fax 813.630.4327

Client Name: Creative Environmental
Address: 700 Desoto Ave.
Brooksville, Fl
Phone: 352-796-3374
FAX: 352-796-2449
Contact: Erik Dankert
Sampled By: Craig Colton
Turn Around Time: ☑ STANDARD ☐ RUSH

Project Name: #1801 Shell-First Coast Energy
P.O. Number or Project Number: ATC-5022A
FDEP Facility No: 8731807
Project Address: 3905. Powerline Rd. Deerfield Beach Fl
Special Instructions:

☑ ADaPT ☐ EQuIS ☐ Other

Page: 1 of 2

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	BOTTLE SIZE & TYPE	ANALYSIS REQUIRED										LABORATORY I.D. NUMBER
							40ml CG	1-L AG	40ml CG									
							8260 BTEX-MTBE	DAHS 8270	8260 BTEX-MTBE									
							PRESERVATION H	1	1									
OW-5		G	1-13-16	08:59	GW	4	X	X	X									
OW-6				09:40														
OW-7				10:25														
OW-8				11:19														
OW-10				12:02														
MW-22DR				13:23														
MW-17R				14:03														
MW-40				10:36														
MW-20				09:00														
MW-18R				09:30														

Matrix Code: **WW** = wastewater **SW** = surface water **GW** = ground water **DW** = drinking water **O** = oil **A** = air **SO** = soil **SL** = sludge

Preservation Code: I = ice H=(HCl) S = (H_2SO_4) N = (HNO_3) T = (Sodium Thiosulfate)

Received on Ice ☐ Yes ☐ No ☐ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received _____ (in degrees celcius)

DCN: AD-051 Form last revised 04/30/2015 Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[signature]	1-13-16	1500	[signature]	1-13-16	1500
2						
3						
4						

FOR DRINKING WATER USE:
PWS ID:
Contact Person: Phone:
Supplier of Water:
Site-Address:

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Client Name: Creative Environmental
Address: 700 Desoto Ave
Brooksville, FL 34601
Phone: 352-796-3374
FAX: 352-796-2449
Contact: Erik Dankert
Sampled By: Craig & Colton
Turn Around Time: ☑ STANDARD ☐ RUSH
Page: 2 of 2

Project Name: Shell-First Coast Energy #1801
P.O. Number or Project Number: ATC-5022A
FDEP Facility No: FS 873 1807
Project Address: 3905. Powerline Rd.
Deerfield Beach, FL
Special Instructions:
☑ ADaPT ☐ EQuIS ☐ Other

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	ANALYSIS REQUIRED: BOTTLE SIZE & TYPE	8260B BTEX-MTBE	BOTTLE SIZE & TYPE	8270 PAHs	BOTTLE SIZE & TYPE	8260B BTEX MTBE	LABORATORY I.D. NUMBER
									40mL G		1L AG	40mL G		
MW-41		G	1-13-16	10:07	GW	4	H		X		X		X	
MW-21D		↓	↓	11:21	↓	↓	↓		↓		↓		↓	
OW-12				11:56										
MW-29D				12:26										
MW-39				13:12										
MW-19R				13:44										
MW-36D		↓	↓	14:28	↓	↓	↓		↓		↓		↓	

Matrix Code: **WW** = wastewater **SW** = surface water **GW** = ground water **DW** = drinking water **O** = oil **A** = air **SO** = soil **SL** = sludge

Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☐ Yes ☐ No ☐ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received: _____ (in degrees celcius)

DCN: AD-051 Form last revised 04/30/2015 Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1		1-13-16	15:00		1-13-16	1500
2						
3						
4						

FOR DRINKING WATER USE:
PWS ID:
Contact Person: Phone:
Supplier of Water:
Site-Address:

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DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME:	Shell First Coast Energy #1801	SITE LOCATION:	390 S. Powerline Rd. Deerfield Beach, FL.
WELL NO:	MW-21D	SAMPLE ID:	MW-21D
DATE:	1-13-2016		

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	5/16	WELL SCREEN INTERVAL DEPTH:	39.7 feet to 44.7 feet	STATIC DEPTH TO WATER (feet):	5.60 ~~5.60~~	PURGE PUMP TYPE OR BAILER:	PP

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

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

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

= 0 gallons + (.004 gallons/foot X 44.7 feet) + 0.2 gallons = .38 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	42.2	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	42.2	PURGING INITIATED AT:	11:02	PURGING ENDED AT:	11:19	TOTAL VOLUME PURGED (gallons):	1.34

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 ~~mS/cm~~	DISSOLVED OXYGEN (circle units) ~~mg/L~~ or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
11:07	.38	.38	.08	5.75	7.10	26.65	329	0.73	4.70	CLEAR	-105.9
11:10	.24	.62	.08	5.75	7.08	26.69	330	0.70	4.29	CLEAR	-106.9
11:13	.24	.86	.08	5.75	7.07	26.71	331	0.43	3.36	CLEAR	-109.3
11:16	.24	1.10	.08	5.75	7.06	26.73	333	0.45	3.01	CLEAR	-109.3
11:19	.24	1.34	.08	5.75	7.05	26.74	334	0.44	2.55	CLEAR	-110.7

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:	C. ISENHOUR (CES)	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	11:21	SAMPLING ENDED AT:	11:26
PUMP OR TUBING DEPTH IN WELL (feet):	42.2	TUBING MATERIAL CODE:	PE	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-21D	1	AG	1L	ICE	—	—	8270 PAHs	APP	≈ 200
MW-21D	1	CG	40mL	HCL	—	—	8260B BEM	APP	≈ 100
MW-21D	2	CG	40m	ICE	—	—	8260B BEM	APP	≈ 100

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)

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DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME:	SHELL FIRST COAST ENERGY #1801	SITE LOCATION:	390 S. POWERLINE RD. DEERFIELD BEACH, FL.
WELL NO:	MW-29D	SAMPLE ID:	MW-29D
DATE:	1-13-2016		

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	5/16	55 feet to 60 feet	5.67	PP

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

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (.004 gallons/foot X 60 feet) + 0.2 gallons = 0.44 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
57.5	57.5	12:14	12:24	1.10

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
12:18	.44	.44	0.11	5.91	6.98	26.76	411	0.44	0.95	CLEAR	-115.1
12:21	.33	.77	0.11	5.91	6.97	26.77	413	0.41	0.70	CLEAR	-120.9
12:24	.33	1.10	0.11	5.91	6.96	26.78	415	0.40	0.94	CLEAR	-128.9

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:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
C. ISENHOUR (CES)		12:26	12:31

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
57.5	PE		

FIELD DECONTAMINATION: PUMP (Y) N TUBING Y (N replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-29D	1	AG	1L	ICE	—	—	8270 PAHS	APP	≈ 200
MW-29D	1	CG	40mL	HCL	—	—	8260B BTEX	APP	≈ 100
MW-29D	2	CG	40mL	ICE	—	—	8260B BTEX	APP	≈ 100

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)

DRAFT

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Shell- First Coast Energy #1801	SITE LOCATION: 3905. Powerline Rd, Deerfield Beach, FL
WELL NO: OW-16	SAMPLE ID: OW-16
	DATE: 1-13-16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 4.9 feet to 14.9 feet	STATIC DEPTH TO WATER (feet): 4.31	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (14.9 feet – 4.31 feet) X 0.16 gallons/foot = 1.69 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
6.0	6.0	16:04	16:27	2.59

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
16:19	1.69	1.69	.113	4.47	7.29	25.7	290.2	2.77	2.43	clear	61.8
16:23	.45	2.14	.113	4.47	7.29	25.7	290.4	2.74	2.58	clear	64.5
16:27	.45	2.59	.113	4.47	7.28	25.7	289.8	2.72	2.86	clear	68.2

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:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Craig Leach (CGS)	G. Ll	16:28	16:34

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
6.0	PE		

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)
OW-16	1	CG	40mL	HCL	—	—	8260B BTEX	APP	100
OW-16	2	CG	40mL	ICE	—	—	8260B BTEX	APP	100
OW-16	1	AG	1L	ICE	—	—	8270 PAHs	APP	250

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)

DRAFT

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

#1801

SITE NAME: Shell-First Coast Energy	SITE LOCATION: 390 S. Powerline Rd., Deerfield Beach, FL
WELL NO: OW-10	SAMPLE ID: OW-10
DATE: 1-13-16	

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/2	WELL SCREEN INTERVAL DEPTH: 4.8 feet to 14.8 feet	STATIC DEPTH TO WATER (feet): 5.67	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (14.8 feet − 5.67 feet) X 0.65 gallons/foot = 5.93 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): 7.75	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.75	PURGING INITIATED AT: 11:40	PURGING ENDED AT: 12:01	TOTAL VOLUME PURGED (gallons): 10.37

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 ~~mS/cm~~	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
11:52	5.93	5.93	.494	6.11	6.68	27.1	833	0.11	1.03	clear	-164.2
11:55	1.48	7.41	.494	6.11	6.67	27.1	812	0.09	.91	clear	-168.5
11:58	1.48	8.89	.494	6.11	6.67	27.1	833	0.08	.79	clear	-174.4
12:01	1.48	10.37	.494	6.11	6.67	27.1	830	0.07	.60	clear	-182.5

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: Craig Leach (CES)	SAMPLER(S) SIGNATURE(S): G. Leach	SAMPLING INITIATED AT: 12:02	SAMPLING ENDED AT: 12:06
PUMP OR TUBING DEPTH IN WELL (feet): 7.75	TUBING MATERIAL CODE: PE	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)
OW-10	3 1	AG	40mL	HCl	—	—	8260B BTEX	ESP	100
OW-10	1	AG	1 L	ICE	—	—	8270 PAHs	ESP	250
OW-10	2	CG	40mL	ICE	—	—	8260B BTEX	ESP	100

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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Shell-First Coast Energy #1801	SITE LOCATION: 3905 S. Powerline Rd., Deerfield Beach, FL	
WELL NO: OW-5	SAMPLE ID: OW-5	DATE: 1- -16

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/2	WELL SCREEN INTERVAL DEPTH: 1.0 feet to 9.5 feet	STATIC DEPTH TO WATER (feet): 4.84	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (9.5 feet – 4.84 feet) X 0.65 gallons/foot = 3.03 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): 7.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.0	PURGING INITIATED AT: 08:43	PURGING ENDED AT: 08:58	TOTAL VOLUME PURGED (gallons): 5.05

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)	ORP (mV)
08:52	3.03	3.03	.337	5.11	6.79	29.0	6.520	0.63	6.59	clear	-51.3
08:55	1.01	4.04	.337	5.11	6.79	28.9	514	0.62	6.40	clear	-68.3
08:58	1.01	5.05	.337	5.11	6.79	29.0	516	0.63	5.49	clear	-84.8

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: CRAIG Leach (CES)	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 08:59	SAMPLING ENDED AT: 09:03
PUMP OR TUBING DEPTH IN WELL (feet): 7.0	TUBING MATERIAL CODE: PE	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)
~~OW-5~~	~~3~~	~~CG~~	~~40mL~~	~~HCL~~	~~—~~	~~—~~	~~8260 BTEX~~	~~ESP~~	~~100~~
OW-5	1	AG	1L	ICE	—	—	8270 PAHs	ESP	250
OW-5	1	CG	40mL	HCL	—	—	8260B BTEX	ESP	100
OW-5	2	CG	40mL	ICE	—	—	8260B BTEX	ESP	100

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)

DRAFT

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Shell - First Coast Energy #1801	SITE LOCATION: 390 S. Powerline Rd., Deerfield Beach FL
WELL NO: OW-6	SAMPLE ID: OW-6
DATE: 1-13-16	

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/2	WELL SCREEN INTERVAL DEPTH: 1.8 feet to 11.8 feet	STATIC DEPTH TO WATER (feet): 4.87	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (11.8 feet – 4.87 feet) X 0.65 gallons/foot = 4.50 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): 7.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.0	PURGING INITIATED AT: 09:22	PURGING ENDED AT: 09:39	TOTAL VOLUME PURGED (gallons): 6.96

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 (mS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
09:33	4.50	4.50	.409	5.10	6.86	28.5	520	0.77	2.57	clear	-79.3
09:36	1.23	5.73	.409	5.10	6.86	28.6	518	0.72	1.90	clear	-79.0
09:39	1.23	6.96	.409	5.10	6.86	28.5	5.17	0.73	1.68	clear	-85.1

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: Craig Leach (CES)	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 09:40	SAMPLING ENDED AT: 09:44
PUMP OR TUBING DEPTH IN WELL (feet): 7.0	TUBING MATERIAL CODE: PE	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)
OW-6	3 1	CG	40mL	HCL	—	—	8260B BTEX	ESP	100
OW-6	1	AG	1L	ICE	—	—	8270 PAHs	ESP	250
OW-6	2	CG	40mL	ICE	—	—	8260 BTEX	ESP	100

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)

DRAFT

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

shell

SITE NAME: First Coast Energy #1801	SITE LOCATION: 390.5. Powerline Rd. Deerfield Beach, FL
WELL NO: OW-7	SAMPLE ID: OW-7
	DATE: 1-13-16

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/2	WELL SCREEN INTERVAL DEPTH: 1.0 feet to 11.0 feet	STATIC DEPTH TO WATER (feet): 5.07	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (11.0 feet − 5.07 feet) X 0.65 gallons/foot = 3.85 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): 7.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.0	PURGING INITIATED AT: 09:59	PURGING ENDED AT: 10:24	TOTAL VOLUME PURGED (gallons): 7.45

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 ~~mS/cm~~	DISSOLVED OXYGEN (circle units) ~~mg/L~~ or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
10:12	3.85	3.85	.30	5.37	7.27	28.1	286.6	4.77	10.6	clear	73.8
10:15	.9	4.75	.30	5.37	7.26	28.0	289.1	4.35	9.09	clear	75.8
10:18	.9	5.65	.30	5.37	7.24	28.1	290.4	3.93	7.98	clear	77.3
10:21	.9	6.55	.30	5.37	7.22	28.0	293.3	3.89	8.31	clear	78.6
10:24	.9	7.45	.30	5.37	7.21	28.0	293.9	3.88	6.60	clear	78.4

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: Craig Leach (CES)	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 10:25	SAMPLING ENDED AT: 10:29
PUMP OR TUBING DEPTH IN WELL (feet): 7.0	TUBING MATERIAL CODE: PE	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)
OW-7	~~2~~ 1	CG	40mL	HCL	—	—	8260B BTM	ESP	100
OW-7	~~2~~ 1	AG	~~250~~ 1L	ICE	—	—	8270 PAHS	ESP	250
OW-7	2	CG	40mL	ICE	—	—	8260B BTM	ESP	100

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)

DRAFT

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Shell - First Coast Energy #1801	SITE LOCATION: 3905. Power line Road, Deerfield Beach, FL
WELL NO: OW-8	SAMPLE ID: OW-8
DATE: 1-13-16	

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/2	WELL SCREEN INTERVAL DEPTH: 4.7 feet to 14.7 feet	STATIC DEPTH TO WATER (feet): 5.83	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (14.7 feet – 5.83 feet) X 0.65 gallons/foot = 5.77 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): 7.75	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.75	PURGING INITIATED AT: 10:58	PURGING ENDED AT: 11:18	TOTAL VOLUME PURGED (gallons): 10.51

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
11:09	5.77	5.77	.525	6.16	6.78	27.1	791	0.15	1.26	clear	-104.2
11:12	1.58	7.35	.525	6.16	6.77	27.1	774	0.13	0.92	clear	-110.1
11:15	1.58	8.93	.525	6.16	6.77	27.1	771	0.09	0.59	clear	-117.3
11:18	1.58	10.51	.525	6.16	6.76	27.1	769	0.08	0.43	clear	-125.0

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: Craig Leach (CES)	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 11:19	SAMPLING ENDED AT: 11:23
PUMP OR TUBING DEPTH IN WELL (feet): 7.75	TUBING MATERIAL CODE: PE	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)
OW-8	1	CC	40mL	HCL	—	—	8260B BTM	ESP	100
OW-8	1	AG	1L	Ice	—	—	8270 PAHS	ESP	250
OW-8	2	CG	40mL	Ice	—	—	8260B BTM	ESP	100

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)

DRAFT

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

#1801

SITE NAME: Shell - First Coast Energy	SITE LOCATION: 390 S. Powerline Rd., Deerfield Beach, FL
WELL NO: MW-220R	SAMPLE ID: MW-220R
	DATE: 1-13-16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING (OD) DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 30 feet to 35 feet	STATIC DEPTH TO WATER (feet): 4.86	PURGE PUMP TYPE OR BAILER: PP

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

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

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

= 0 gallons + (0.0014 gallons/foot X 35 feet) + .2 gallons = .25 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32.5	PURGING INITIATED AT: 13:03	PURGING ENDED AT: 13:22	TOTAL VOLUME PURGED (gallons): 1.20

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)	ORP (mV)
13:07	.25	.25	.063	4.98	6.87	28.1	418.0	0.22	1.11	clear	-126.0
13:10	.189	.44	.063	4.98	6.85	28.2	416.4	0.22	1.01	clear	-123.9
13:13	.189	.63	.063	4.98	6.85	28.2	455.0	0.25	1.10	clear	-123.8
13:16	.189	.82	.063	4.98	6.84	28.1	464.1	0.23	1.33	clear	-124.0
13:19	.189	1.01	.063	4.98	6.83	28.2	464.3	0.20	0.68	clear	-110.8
13:22	.189	1.20	.063	4.98	6.82	28.2	462.7	0.19	0.46	clear	-107.0

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: Craig Leach (CES)	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 13:23	SAMPLING ENDED AT: 13:29
PUMP OR TUBING DEPTH IN WELL (feet): 32.5	TUBING MATERIAL CODE: PE	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)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-220R	1	CG	40mL	HCL	—	—	8260B BTM	APP	100
MW-220R	2	CG	40mL	ICE	—	—	8260B BTM	APP	100
MW-220R	1	AG	1L	ICE	—	—	8270 PAHS	APP	250

REMARKS: 1/4 OD = 3/16 ID

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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Shell - First Coast Energy ~~#1801~~		SITE LOCATION: 390 S. Powerline Rd., Deerfield Beach FL	
WELL NO: MW-17R	SAMPLE ID: MW-17R	DATE: 1-13-16	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 3 feet to 13 feet	STATIC DEPTH TO WATER (feet): 4.60	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (13 feet – 4.60 feet) X 0.16 gallons/foot = 1.34 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
6.25	6.25	13:43	14:02	2.54

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)	ORP (mV)
13:53	1.34	1.34	.134	4.81	6.98	27.3	562	0.61	0.52	clear	-57.8
13:56	.402	1.74	.134	4.81	6.98	27.4	562	0.49	0.40	clear	-61.0
13:59	.402	2.14	.134	4.81	6.98	27.3	561	0.45	0.25	clear	-67.4
~~13:~~ 14:02	.402	2.54	.134	4.81	6.97	27.4	563	0.44	0.38	clear	-65.9

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: Craig Leach (CES)	SAMPLER(S) SIGNATURE(S): C. Leach	SAMPLING INITIATED AT: 14:03	SAMPLING ENDED AT: 14:09
PUMP OR TUBING DEPTH IN WELL (feet): 6.25	TUBING MATERIAL CODE: PE	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					
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-17R	2	CG	40mL	HCL	—	—	8260B BTM	APP	100
MW-17R	2	CG	40mL	ICE	—	—	8260B BTM	APP	100
MW-17R	1	AG	1L	ICE	—	—	8270 PAHs	APP	250

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

Revision Date: February 12, 2009

DRAFT

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Shell - First Coast Energy #1601	SITE LOCATION: 3905 Powerline Rd, Deerfield Beach FL		
WELL NO: MW-34I	SAMPLE ID: MW-34I	DATE: 1-13-16	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH 40 feet to 45 feet	STATIC DEPTH TO WATER (feet): 4.22	PURGE PUMP TYPE OR BAILER: PP

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

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 45 feet) + .2 gallons = .26 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
42.5	42.5	15:28	15:38	.65

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
15:32	.26	.26	.065	4.52	6.79	27.9	492	0.30	5.46	clear	-123.5
15:35	.195	.46	.065	4.52	6.77	27.9	497	0.28	1.69	clear	-128.1
15:38	.195	.65	.065	4.52	6.77	27.9	497	0.27	1.29	clear	-131.1

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: Craig Leach (CES)	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 15:39	SAMPLING ENDED AT: 15:45
PUMP OR TUBING DEPTH IN WELL (feet): 42.5	TUBING MATERIAL CODE: PE	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-34I	1	CG	40mL	HCL	—	—	8260B BTEX	APP	100
MW-34I	1	AG	1L	ICE	—	—	8270PAH's	APP	250
MW-34I	2	CG	40mL	ICE	—	—	8260B BTEX	APP	100

REMARKS: 1/4 OD = 3/16 ID

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)

DRAFT

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME:	SHELL FIRST COAST ENERGY #1001	SITE LOCATION:	390 S. POWERLINE RD. DEERFIELD BEACH, FL
WELL NO:	MW-20	SAMPLE ID:	MW-20
DATE:	1-13-2016		

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 3.1 feet to 13.1 feet	STATIC DEPTH TO WATER (feet): 5.25	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (13.1 feet – 5.25 feet) X 0.16 gallons/foot = 1.256 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
7.25	7.25	08:45	08:58	2.336

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
08:52	1.256	1.256	0.18	5.42	6.80	28.00	618	0.27	2.59	CLEAR	100.6
08:55	0.54	1.796	0.18	5.42	6.80	27.99	619	0.29	1.95	CLEAR	84.2
08:58	0.54	2.336	0.18	5.42	6.79	28.01	619	0.30	2.10	CLEAR	75.4

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: C. ISENHOUR (CES)	SAMPLER(S) SIGNATURE(S): Colton D. Clark	SAMPLING INITIATED AT: 09:00	SAMPLING ENDED AT: 09:05
PUMP OR TUBING DEPTH IN WELL (feet): 7.25	TUBING MATERIAL CODE: PE	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-20	1	AG	1L	ICE	—	—	8270 PAHS	APP	≈ 200
MW-20	1	CG	40mL	HCL	—	—	8260 B BEM	APP	≈ 100
MW-20	2	CG	40mL	ICE	—	—	8260 B BEM	APP	≈ 100

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)

DRAFT

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME:	SHELL FIRST COAST ENERGY #1801	SITE LOCATION:	390 S. POWERLINE RD. DEERFIELD BEACH, FL.
WELL NO:	MW-18R	SAMPLE ID:	MW-18R
		DATE:	1-13-2016

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 8.0 feet to 13.0 feet	STATIC DEPTH TO WATER (feet): 5.15	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (13.0 feet – 5.15 feet) X 0.16 gallons/foot = 1.256 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
7.15	7.15	09:16	09:28	2.516

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/l or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
09:22	1.256	1.256	0.21	5.52	6.58	27.72	637	0.30	3.47	CLEAR	-153.3
09:25	0.63	1.886	0.21	5.52	6.58	27.75	639	0.29	2.58	CLEAR	-157.0
09:28	0.63	2.516	0.21	5.52	6.57	27.76	640	0.27	3.11	CLEAR	-161.1

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: C. ISENHOUR (CES)	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 09:30	SAMPLING ENDED AT: 09:35
PUMP OR TUBING DEPTH IN WELL (feet): 7.15	TUBING MATERIAL CODE: PE	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-18R	1	AG	1L	ICE	—	—	8270 PAHS	APP	≈ 200
MW-18R	1	CG	40mL	HCL	—	—	8260B BEM	APP	≈ 100
MW-18R	2	CG	40mL	ICE	—	—	8260B BEM	APP	≈ 100

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)

DRAFT

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME:	SHELL FIRST COAST ENERGY #1801	SITE LOCATION:	390 S. POWERLINE RD. DEERFIELD BEACH, FL.
WELL NO:	MW-41	SAMPLE ID:	MW-41
DATE:	1-13-2016		

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	1/4	3.0 feet to 13.0 feet	4.87	PP

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

= (13.0 feet – 4.87 feet) X 0.16 gallons/foot = 1.30 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
6.90	6.90	09:45	10:05	3.74

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
09:52	1.30	1.30	0.19	5.06	6.79	27.40	706	0.20	155	ORANGE	-157.6
09:59	1.30	2.60	0.19	5.06	6.80	27.39	677	0.30	19.1	CLEAR	-153.7
10:02	0.57	3.17	0.19	5.06	6.80	27.35	679	0.25	10.3	CLEAR	-156.7
10:05	0.57	3.74	0.19	5.06	6.79	27.34	680	0.24	4.59	CLEAR	-155.3

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:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
C. ISENHOUR (CES)	C. Isenhour D. Call	10:07	10:12

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
6.90	PE		

FIELD DECONTAMINATION: PUMP (Y) N TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-41	1	AG	1L	ICE	—	—	8270 PAHS	APP	≈ 200
MW-41	1	CG	40mL	HCL	—	—	8260B BTEX	APP	≈ 100
MW-41	2	CG	40mL	ICE	—	—	8260B BTEX	APP	≈ 100

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)

DRAFT

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME:	Shell First Coast Energy #1801	SITE LOCATION:	890 S. Powerline Rd. Deerfield Beach, FL.
WELL NO:	MW-40	SAMPLE ID:	MW-40
DATE:	1-13-2016		

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	1/4	3.0 feet to 13.0 feet	5.27	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (13.0 feet − 5.27 feet) X 0.16 gallons/foot = 1.24 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
7.30	7.30	10:22	10:34	2.50

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
10:28	1.24	1.24	.21	5.64	6.81	27.09	767	0.22	2.51	CLEAR	-163.4
10:31	0.63	1.87	.21	5.64	6.81	27.11	767	0.23	1.53	CLEAR	-170.4
10:34	0.63	2.50	.21	5.64	6.81	27.13	766	0.21	1.42	CLEAR	-172.4

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" = 0.008; 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:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
C. ISENHOUR (CES)	C. Isenhour D. QL	10:36	10:41

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
7.30	PE		

FIELD DECONTAMINATION: PUMP (Y) N TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-40	1	AG	1L	ICE	—	—	8270 PAHs	APP	≈ 200
MW-40	1	CG	40mL	HCL	—	—	8260B BTEX	APP	≈ 100
MW-40	2	CG	40mL	ICE	—	—	8260B BTEX	APP	≈ 100

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)

DRAFT

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME:	Shell First Coast Energy #1801	SITE LOCATION:	390 S. Powerline Rd. Deerfield Beach, FL
WELL NO:	OW-12	SAMPLE ID:	OW-12
DATE:	1-13-2016		

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	1/4	4.3 feet to 14.3 feet	5.52	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (14.3 feet − 5.52 feet) X 0.16 gallons/foot = 1.40 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
7.5	7.5	11:38	11:54	2.24

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/l or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
11:48	1.40	1.40	.14	5.84	6.81	26.37	604	0.22	1.25	CLEAR	-116.4
11:51	0.42	1.82	.14	5.84	6.81	26.37	604	0.21	0.81	CLEAR	-117.6
11:54	0.42	2.24	.14	5.84	6.81	26.39	606	0.20	0.76	CLEAR	-121.5

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:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
C. ISENHOUR (CES)	D.	11:56	12:01

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
7.5	PE		

FIELD DECONTAMINATION: PUMP (Y) N TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
OW-12	1	AG	1L	ICE	—	—	8270 PAHS	APP	≈ 200
OW-12	1	CG	40mL	HCL	—	—	8260B B&M	APP	≈ 100
OW-12	2	CG	40mL	ICE	—	—	8260B B&M	APP	≈ 100

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)

DRAFT

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME:	SHELL FIRST COAST ENERGY #1801	SITE LOCATION:	390 S. POWERLINE RD. DEERFIELD BEACH, FL.
WELL NO:	MW-39	SAMPLE ID:	MW-39
DATE:	1-13-2016		

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	1/4	3.0 feet to 13.0 feet	5.56	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (13 feet – 5.56 feet) X 0.16 gallons/foot = 1.19 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
7.5	7.5	12:57	13:10	2.21

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 ~~mS/cm~~	DISSOLVED OXYGEN (circle units) ~~mg/L~~ or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
13:04	1.19	1.19	0.17	5.80	6.77	27.12	709	0.38	1.09	CLEAR	-120.4
13:07	0.51	1.70	0.17	5.80	6.77	27.16	711	0.38	1.43	CLEAR	-124.9
13:10	0.51	2.21	0.17	5.80	6.77	27.18	712	0.35	1.32	CLEAR	-132.8

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:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
C. ISENHOUR (CES)	C. Isenhour D. Cole	13:12	13:17

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
7.5	PE		

FIELD DECONTAMINATION: PUMP (Y) N TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	AG	1L	ICE	—	—	8270 PAHs	APP	≈ 200
	1	CG	40mL	HCL	—	—	8260B BEM	APP	≈ 100
	2	CG	40mL	ICE	—	—	8260B BEM	APP	≈ 100

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)

DRAFT

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: SHELL FIRST COAST ENERGY #1801	SITE LOCATION: 390 S. POWERLINE RD. DEERFIELD BEACH, FL.
WELL NO: MW-19R	SAMPLE ID: MW-19R
DATE: 1-13-2016	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 3.0 feet to 13.0 feet	STATIC DEPTH TO WATER (feet): 4.72	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (13 feet − 4.72 feet) X 0.16 gallons/foot = 1.32 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
6.75	6.75	13:29	13:42	2.46

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
13:36	1.32	1.32	.19	4.90	6.78	28.15	653	0.63	1.36	CLEAR	-39.0
13:39	0.57	1.89	.19	4.90	6.77	28.15	655	0.61	0.94	CLEAR	-36.3
13:42	0.57	2.46	.19	4.90	6.75	28.16	656	0.60	0.95	CLEAR	-34.9

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: C. ISENHOUR (CES)	SAMPLER(S) SIGNATURE(S): C. Isenhour D. Ql	SAMPLING INITIATED AT: 13:44	SAMPLING ENDED AT: 13:49
PUMP OR TUBING DEPTH IN WELL (feet): 6.75	TUBING MATERIAL CODE: PE	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-19R	1	AG	1L	ICE	—	—	8270 PAHS	APP	≈ 200
DUP-19R	1	CG	40mL	HCl	—	—	8260B BTEX	APP	≈ 100
MW-19R	2	CG	40mL	ICE	—	—	8260B BTEX	APP	≈ 100

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)

DRAFT

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: SHELL FIRST COAST ENERGY #1801	SITE LOCATION: 390 S. POWERLINE RD. DEERFIELD BEACH, FL.
WELL NO: MW-36D	SAMPLE ID: MW-36D. DATE: 1-13-2016

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	OD 1/4	55 feet to 60 feet	4.48	PP

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

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (.0014 gallons/foot X 60 feet) + 0.2 gallons = .28 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
57.5	57.5	14:17	14:26	.82

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
14:20	.28	.28	.09	4.85	6.98	27.91	489	0.48	9.87	CLEAR	-115.2
14:23	0.27	0.55	.09	4.85	6.97	27.95	489	0.45	9.95	CLEAR	-117.3
14:26	0.27	.82	.09	4.85	6.96	27.96	490	0.43	8.16	CLEAR	-118.4

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:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
C. ISENHOUR (CES)	C. Isenhour D. CK	14:28	14:33

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
57.5	PE		

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-36D	1	AG	1L	ICE	—	—	8270 PAHs	APP	≈ 200
MW-36D	1	CG	40mL	HCl	—	—	8260B BTEX	APP	≈ 100
MW-36D	2	CG	40mL	ICE	—	—	8260B BTEX	APP	≈ 100

REMARKS:
1/4 OD = 3/16 ID

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)

DRAFT

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME:	Shell First Coast Energy #1801	SITE LOCATION:	390 S. Powerline Rd. Deerfield Beach, FL
WELL NO:	MW-38I	SAMPLE ID:	MW-38I
DATE:	1-13-2016		

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	OD 1/4	WELL SCREEN INTERVAL DEPTH:	40 feet to 45 feet	STATIC DEPTH TO WATER (feet):	4.41	PURGE PUMP TYPE OR BAILER:	PP

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

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (.0014 gallons/foot X 45 feet) + 0.2 gallons = .26 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	42.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	42.5	PURGING INITIATED AT:	15:07	PURGING ENDED AT:	15:19	TOTAL VOLUME PURGED (gallons):	1.07

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
15:10	.26	.26	.09	4.51	6.88	27.85	591	0.49	1.11	CLEAR	-66.0
15:13	.27	.53	.09	4.51	6.85	27.87	616	0.30	0.68	CLEAR	-68.5
15:16	.27	.80	.09	4.51	6.83	27.88	618	0.29	1.39	CLEAR	-69.8
15:19	.27	1.07	.09	4.51	6.83	27.87	619	0.27	1.41	CLEAR	-70.7

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:	C. ISENHOUR (CES)	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	15:21	SAMPLING ENDED AT:	15:26
PUMP OR TUBING DEPTH IN WELL (feet):	42.5	TUBING MATERIAL CODE:	PE	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-38I	1	AG	1L	ICE	—	—	8270 PAHS	APP	≈ 200
MW-38I	1	CG	40mL	HCL	—	—	8260B BEM	APP	≈ 100
MW-38I	2	CG	40mL	ICE	—	—	8260B BEM	APP	≈ 100

REMARKS: 1/4" OD = 3/16" ID

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)

DRAFT

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME:	Shell First Coast Energy #1801	SITE LOCATION:	390 S. Powerline Rd. Deerfield Beach, FL.
WELL NO:	MW-23	SAMPLE ID:	MW-23
DATE:	1-13-2016		

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	1/4	2.0 feet to 12.0 feet	4.47	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet – 4.47 feet) X 0.16 gallons/foot = 1.20 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
6.5	6.5	15:38	15:50	2.40

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
15:44	1.20	1.20	.20	4.68	7.10	25.54	420	3.50	4.48	CLEAR	-7.9
15:47	.60	1.80	.20	4.68	7.07	25.57	418	3.45	4.00	CLEAR	-6.0
15:50	.60	2.40	.20	4.68	7.07	25.57	417	3.44	3.57	CLEAR	-4.5

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:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
C. ISENHOUR (CES)		15:52	15:57

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
6.5	PE		

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-23	1	AG	1L	ICE	—	—	8270 PAHs	APP	≈ 200
MW-23	1	CG	40mL	HCL	—	—	8260B BTEX	APP	≈ 100
MW-23	2	CG	40mL	ICE	—	—	8260B BTEX	APP	≈ 100

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)

DRAFT

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME:	Shell First Coast Energy #1801	SITE LOCATION:	390 S. Powerline Rd. Deerfield Beach, FL.
WELL NO:	MW-26I	SAMPLE ID:	MW-26I
DATE:	1-13-2016		

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	OD 1/4	40 feet to 45 feet	4.28	PP

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

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (.0014 gallons/foot X 45 feet) + 0.2 gallons = .26 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
42.5	42.5	16:13	16:22	.80

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
16:16	.26	.26	.09	4.43	6.96	26.62	400	0.59	11.5	CLEAR	-11.9
16:19	.27	.53	.09	4.43	6.94	26.65	402	0.57	11.6	CLEAR	-14.8
16:22	.27	.80	.09	4.43	6.93	26.67	403	0.55	11.7	CLEAR	-20.5

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:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
C. ISENHOUR (CES)	Colt D. [illegible]	16:24	16:29

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
42.5	PE		

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-26I	1	AG	1L	ICE	—	—	8270 PAHS	APP	≈ 200
MW-26I	1	CG	40mL	HCL	—	—	8260B BEM	APP	≈ 100
MW-26I	2	CG	40mL	ICE	—	—	8260B BEM	APP	≈ 100

REMARKS: 1/4 OD = 3/16 ID

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)

DRAFT

Thurs. OVERCAST / COOL 65° EST.

1-14-2016 SHELL FIRST COAST ENERGY #1801

09:10 LEAVE HOTEL

07:30 ARRIVE ON SITE

07:35 READ OVER / SIGN HASP

07:40 CALIBRATE YSI & HACH.

* SEE CALIBRATION LOG SHEET.

08:25 START PURGE MW-30D

08:41 END PURGE MW-30D

08:43 SAMPLE MW-30D

* SEE GW SAMPLING LOG SHEET

08:21 START PURGE MW-31D

08:37 END PURGE MW-31D

08:38 SAMPLE MW-31D

* SEE GW SAMPLING LOG SHEET.

09:01 START PURGE MW-24

09:14 END PURGE MW-24

09:16 SAMPLE MW-24

* SEE GW SAMPLING LOG SHEET.

09:02 START PURGE MW-27I

09:24 END PURGE MW-27I

09:25 SAMPLE MW-27I

* SEE GW SAMPLING LOG SHEET.

09:40 START PURGE MW-33D

09:53 END PURGE MW-33D

09:55 SAMPLE MW-33D

* SEE GW SAMPLING LOG SHEET.

ATC-5022A C. ISENHOUR
FACILITY #731807 C. LEACH
390 S. POWERLINE RD. DEERFIELD BEACH, FL. (22)

09:45 START PURGE OW-15

10:08 END PURGE OW-15

10:09 SAMPLE OW-15

* SEE GW SAMPLING LOG SHEET.

10:21 START PURGE MW-35I

10:33 END PURGE MW-35I

10:35 SAMPLE MW-35I

* SEE GW SAMPLING LOG SHEET.

10:21 START PURGE OW-17

10:36 END PURGE OW-17

10:37 SAMPLE OW-17

* SEE GW SAMPLING LOG SHEET.

10:50 START PURGE MW-25

11:02 END PURGE MW-25

11:04 SAMPLE MW-25

* SEE GW SAMPLING LOG SHEET.

11:11 POST CALIBRATE YSI & HACH

* SEE CALIBRATION LOG SHEET.

11:26 LOAD TRUCK / CLEAN SITE

11:43 LEAVE SITE

12:00 - 12:30 LUNCH

16:30 ARRIVE @ OFFICE.

8.5 HRS

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Field Instrument Calibration Records

Project Name/Number Shell - First Coast Energy #1801 ATC-5022A Date 1/14/16

Instrument (Make/Model #) YSI Pro **Instrument** C

Parameter: Temperature

Standard A: YSI Standard Solution/Pine Environmental/10-2016/No Standard

Time	STD	STD Value	Instrument Response	% Dev	Calibrated	Type	Sampler Initials
07:40	A	N/A	17.5	N/A	YES	INIT	CL
11:11	A	N/A	18.2	N/A	YES	CONT	CL

Instrument (Make/Model #) YSI Pro

Parameter: Conductivity

Standard A: YSI Standard Solution/Pine Environmental/10-2016/1,413 uS/cm

Time	STD	STD Value	Instrument Response	% Dev	Calibrated	Type	Sampler Initials
07:40	A	1,413	1413	0	YES	INIT	CL
11:11	A	1,413	1415	.14	YES	CONT	CL

Instrument (Make/Model #) YSI Pro

Parameter: PH

Standard A,B,C: YSI Pro pH 4.00, pH 7.00; pH 10.00 Standard Solutions/Pine Environmental/10-2016/4.00, 7.00 & 10.00

Time	STD	STD Value	Instrument Response	% Dev	Calibrated	Type	Sampler Initials
07:40	A	4.00	4.05	1.23	YES	INIT	CL
↓	B	7.00	7.03	.43	YES	INIT	CL
↓	C	10.00	9.93	.7	YES	INIT	CL
11:11	A	4.00	4.03	.74	YES	CONT	CL
↓	B	7.00	7.00	0	YES	CONT	CL
↓	C	10.00	9.97	0.3	YES	CONT	CL

Instrument (Make/Model #) YSI Pro

Parameter: DO

Standard A, B: YSI Standard Solution/Pine Environmental/10-2016/0% (Solution) & 100% (Fresh Air)

Time	STD	STD Value	Instrument Response	% Dev	Calibrated	Type	Sampler Initials
07:40	A	0%	0	0	YES	INIT	CL
↓	B	100%	99.7	.3	YES	INIT	CL
11:11	A	0%	0	0	YES	CONT	CL
↓	B	100%	99.5	.5	YES	CONT	CL

Instrument (Make/Model #) YSI Pro

Parameter: ORP

Standard A: Hanna Standard Solution/Pine Environmental/09-2019/240mV@25 Degrees C

Time	STD	STD Value	Instrument Response	% Dev	Calibrated	Type	Sampler Initials
07:40	A	240	241.7	.70	YES	INIT	CL
11:11	A	240	241.4	.58	YES	CONT	CL

Instrument (Make/Model #) Hach 2100Q **Instrument** D

Parameter: Turbidity

Standard A:800 NTU Standard B:100 NTU Standard C:20.0 NTU Standard D:10.0 NTU: Stablcal Formazin Turbidty Standard Solutions/ Pine Environmental 07-2016

Time	STD	STD Value	Instrument Response	% Dev	Calibrated	Type	Sampler Initials
07:40	A	800	795	.63	YES	INIT	CL
↓	B	100	100	0	YES	INIT	CL
↓	C	20.0	20.0	0	YES	INIT	CL
↓	D	10.0	10.1	.99	YES	INIT	CL
Time	STD	STD Value	Instrument Response	% Dev	Calibrated	Type	Sampler Initials
11:11	A	800	789	1.38	YES	CONT	CL
↓	B	100	100	0	YES	CONT	CL
↓	C	20.0	19.8	1.0	YES	CONT	CL
↓	D	10.0	10.00	0	YES	CONT	CL

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Field Instrument Calibration Records

Project Name/Number SHELL FIRST COAST ENERGY #1801 **Date** 1/14/2016

Instrument (Make/Model #)	YSI Pro						Instrument
Parameter: Temperature							
Standard A: YSI Standard Solution/Pine Environmental/10-2016/No Standard							
Time	STD	STD Value	Instrument Response	% Dev	Calibrated	Type	Sampler Initials
07:40	A	N/A	17.73	N/A	YES	INIT	CL
11:11	A	N/A	18.40	N/A	YES	CONT	CL
Instrument (Make/Model #) YSI Pro							
Parameter: Conductivity							
Standard A: YSI Standard Solution/Pine Environmental/10-2016/1,413 uS/cm							
Time	STD	STD Value	Instrument Response	% Dev	Calibrated	Type	Sampler Initials
07:40	A	1,413	1413	Ø	YES	INIT	CL
11:11	A	1,413	1413	Ø	YES	CONT	CL
Instrument (Make/Model #) YSI Pro							
Parameter: PH							
Standard A,B,C: YSI Pro pH 4.00, pH 7.00, pH 10.00 Standard Solutions/Pine Environmental/10-2016/4.00, 7.00 & 10.00							
Time	STD	STD Value	Instrument Response	% Dev	Calibrated	Type	Sampler Initials
07:40	A	4.00	4.00	Ø	YES	INIT	CL
	B	7.00	7.00	Ø	YES	INIT	CL
↓	C	10.00	9.97	.30	YES	INIT	CL
11:11	A	4.00	4.00	Ø	YES	CONT	CL
	B	7.00	7.00	Ø	YES	CONT	CL
↓	C	10.00	9.98	.20	YES	CONT	CL
Instrument (Make/Model #) YSI Pro							
Parameter: DO							
Standard A, B: YSI Standard Solution/Pine Environmental/10-2016/0% (Solution) & 100% (Fresh Air)							
Time	STD	STD Value	Instrument Response	% Dev	Calibrated	Type	Sampler Initials
07:40	A	0%	0	Ø	YES	INIT	CL
↓	B	100%	99.7	.30	YES	INIT	CL
11:11	A	0%	0	Ø	YES	CONT	CL
↓	B	100%	99.7	.30	YES	CONT	CL
Instrument (Make/Model #) YSI Pro							
Parameter: ORP							
Standard A: Hanna Standard Solution/Pine Environmental/09-2019/240mV@25 Degrees C							
Time	STD	STD Value	Instrument Response	% Dev	Calibrated	Type	Sampler Initials
07:40	A	240	240.1	.04	YES	INIT	CL
11:11	A	240	240.1	.04	YES	CONT	CL
Instrument (Make/Model #) Hach 2100Q						**Instrument**	
Parameter: Turbidity							
Standard A:800 NTU Standard B:100 NTU Standard C:20.0 NTU Standard D:10.0 NTU: Stablcal Formazin Turbidty Standard Solutions/ Pine Environmental 07-2016							
Time	STD	STD Value	Instrument Response	% Dev	Calibrated	Type	Sampler Initials
07:40	A	800	802	.25	YES	INIT	CL
	B	100	100	Ø	YES	INIT	CL
↓	C	20.0	20.0	Ø	YES	INIT	CL
↓	D	10.0	10.1	1	YES	INIT	CL
Time	STD	STD Value	Instrument Response	% Dev	Calibrated	Type	Sampler Initials
11:11	A	800	798	.25	YES	CONT	CL
↓	B	100	100	Ø	YES	CONT	CL
↓	C	20.0	20.0	Ø	YES	CONT	CL
↓	D	10.0	10.1	1	YES	CONT	CL

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Environmental Laboratories, Inc.

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☐ **Gainesville:** 4965 SW 41st Blvd. • Gainesville, FL 32608 • 352.377.2349 • Fax 352.395.6639
☐ **Jacksonville:** 6681 Southpoint Pkwy. • Jacksonville, FL 32216 • 904.363.9350 • Fax 904.363.9354
☐ **Miramar:** 10200 USA Today Way • Miramar, FL 33025 • 954.889.2288 • Fax 954.889.2281
☐ **Tallahassee:** 2639 North Monroe Street, Suite D • Tallahassee, FL 32303 • 850.219.6274 • Fax 850.219.6275
☐ **Tampa:** 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9616 • Fax 813.630.4327

Client Name: Creative Environmental
Address: 700 Desoto Ave.
Brooksville, Fl
Phone: 352-796-3374
FAX: 352-796-2449
Contact: Erik Dankert
Sampled By: Craig & Colton
Turn Around Time: ☐ STANDARD ☐ RUSH
Page: 2 of 2

Project Name: Shell - First Coast Energy #1801
P.O. Number or Project Number: ATC-022A
FDEP Facility No: 8731807
Project Address: 3905 Powerline Rd.
Deerfield Beach, Fl
Special Instructions:
☑ ADaPT ☐ EQuIS ☐ Other

SAMPLE ID	SAMPLE DESCRIPTION	Grab / Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	BOTTLE SIZE & TYPE	ANALYSIS REQUIRED										LABORATORY I.D. NUMBER
							40mL CG	1L AG	40mL CG									
							PRESERVATION	8260B BTEX-MTBE	8270 PAHs	8260B BTEX-MTBE								
								H	1	1								
MW-34I		G	1-13-16	15:39	GW	4		X	X	X								
OW-16		↓	↓	16:28	↓	↓		↓	↓	↓								
MW-38I				15:21														
MW-23				15:52														
MW-26I		↓	↓	16:24	↓	↓		↓	↓	↓								

Matrix Code: **WW** = wastewater **SW** = surface water **GW** = ground water **DW** = drinking water **O** = oil **A** = air **SO** = soil **SL** = sludge

Preservation Code: I = ice H=(HCl) S = (H_2SO_4) N = (HNO_3) T = (Sodium Thiosulfate)

Received on Ice ☐ Yes ☐ No ☐ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received _____ (in degrees celcius)

DCN: AD-051 Form last revised 04/30/2015 Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[signature]	1-14-16	11:22	[signature]	1/14/16	11:22
2						
3						
4						

FOR DRINKING WATER USE:
PWS ID:
Contact Person: Phone:
Supplier of Water:
Site-Address:

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☐ **Miramar:** 10200 USA Today Way • Miramar, FL 33025 • 954.889.2288 • Fax 954.889.2281
☐ **Tallahassee:** 2639 North Monroe Street, Suite D • Tallahassee, FL 32303 • 850.219.6274 • Fax 850.219.6275
☐ **Tampa:** 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9616 • Fax 813.630.4327

Client Name: CREATIVE ENVIRONMENTAL
Address: 700 Desoto AVE.
Brooksville, Fl 34601
Phone: 352-796-3374
FAX: 352-796-2449
Contact: ERIK DANKERL
Sampled By: CRAIG & COLTON
Turn Around Time: ☑ STANDARD ☐ RUSH
Page: 1 of 2

Project Name: Shell-First Coast Energy #1801
P.O. Number or Project Number: ATC-5022A
FDEP Facility No: 8731807
Project Address: 390 S. Powerline Rd.
Deerfield Beach, Fl
Special Instructions:
☑ ADaPT ☐ EQuIS ☐ Other

ANALYSIS REQUIRED

SAMPLE ID	SAMPLE DESCRIPTION	Grab / Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	BOTTLE SIZE & TYPE: 40mL CG	40mL dC	1L AG	LABORATORY I.D. NUMBER
								82603 BTEX-MTBE	82603 BTEX-MTBE	8270 PAHs	
								H	1	1	
OW-17		G	1-14-16	10:37	GW	4		X	X	X	
OW-15				10:09							
MW-24				09:16							
MW-25				11:04							
MW-27I				09:25							
MW-30D				08:43							
MW-31D				08:38							
MW-33D				09:55							
MW-35I				10:35							

Matrix Code: **WW** = wastewater **SW** = surface water **GW** = ground water **DW** = drinking water **O** = oil **A** = air **SO** = soil **SL** = sludge

Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☐ Yes ☐ No ☐ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received_____(in degrees celcius)

DCN: AD-051 Form last revised 04/30/2015 Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[signature]	1-14-16	11:22	[signature]	1/14/16	11:22
2						
3						
4						

FOR DRINKING WATER USE:
PWS ID:
Contact Person: Phone:
Supplier of Water:
Site-Address:

DRAFT

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME:	SHELL FIRST COAST ENERGY #1801	SITE LOCATION:	390 S. POWERLINE RD. DEERFIELD BEACH, FL
WELL NO:	MW-30D	SAMPLE ID:	MW-30D
DATE:	1-14-2016		

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	OD 1/4	WELL SCREEN INTERVAL DEPTH:	55 feet to 60 feet	STATIC DEPTH TO WATER (feet):	4.44	PURGE PUMP TYPE OR BAILER:	PP

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

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (.0014 gallons/foot X 60 feet) + .2 gallons = .28 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	57.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	57.5	PURGING INITIATED AT:	08:25	PURGING ENDED AT:	08:41	TOTAL VOLUME PURGED (gallons):	1.19

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
08:28	.28	.28	.07	4.77	6.96	25.03	386	1.28	17.4	CLEAR	-74.6
08:31	.21	.49	.07	4.77	6.98	25.01	388	0.65	31.2	CLEAR	-88.8
08:35	.28	.77	.07	4.77	6.97	25.03	406	0.54	32.1	CLEAR	-104.0
08:38	.21	.98	.07	4.77	6.97	25.04	408	0.52	32.7	CLEAR	-105.1
08:41	.21	1.19	.07	4.77	6.98	25.03	409	0.53	31.9	CLEAR	-110.4

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:	C. ISENHOUR (CES)	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	08:43	SAMPLING ENDED AT:	08:50
PUMP OR TUBING DEPTH IN WELL (feet):	57.5	TUBING MATERIAL CODE:	PE	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-30D	1	AG	1L	ICE	—	—	8270 PAHs	APP	≈ 200
MW-30D	1	CG	40mL	HCL	—	—	8260B BEM	APP	≈ 100
MW-30D	2	CG	40mL	ICE	—	—	8260B BEM	APP	≈ 100

REMARKS: 1/4OD = 3/16 ID

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)

DRAFT

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME:	SHELL FIRST COAST ENERGY #1801	SITE LOCATION:	3905 POWERLINE RD. DEERFIELD BEACH, FL.
WELL NO:	MW-24	SAMPLE ID:	MW-24
DATE:	1-14-2016		

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	1/4	2 feet to 12 feet	4.42	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet – 4.42 feet) X 0.16 gallons/foot = 1.21 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
6.5	6.5	09:01	09:14	2.23

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
09:08	1.21	1.21	.17	4.57	7.47	25.13	313	3.22	7.17	CLEAR	-11.5
09:11	.51	1.72	.17	4.57	7.46	25.17	313	3.21	3.09	CLEAR	-7.7
09:14	.51	2.23	.17	4.57	7.47	25.17	314	3.20	3.52	CLEAR	-6.9

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:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
C. ISENHOUR (CES)	C. Isenhour D. CHL	09:16	09:21

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
6.5	PE		

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-24	1	AG	1L	ICE	—	—	8270 PAHS	APP	≈ 200
MW-24	1	CG	40mL	HCL	—	—	8260B BEM	APP	≈ 100
MW-24	2	CG	40mL	ICE	—	—	8260B BEM	APP	≈ 100

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)

DRAFT

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME:	SHELL FIRST COAST ENERGY # 1801	SITE LOCATION:	390 S. POWERLINE RD. DEERFIELD BEACH, FL.
WELL NO:	MW-33D	SAMPLE ID:	MW-33D
DATE:	1-14-2016		

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	OD 1/4	WELL SCREEN INTERVAL DEPTH:	70 feet to 75 feet	STATIC DEPTH TO WATER (feet):	4.55	PURGE PUMP TYPE OR BAILER:	PP

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

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (.0014 gallons/foot X 75 feet) + 0.2 gallons = .31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	72.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	72.5	PURGING INITIATED AT:	09:40	PURGING ENDED AT:	09:53	TOTAL VOLUME PURGED (gallons):	1.03

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
09:44	.31	.31	.08	4.93	7.11	25.70	275	0.80	2.99	CLEAR	-134.0
09:47	.24	.55	.08	4.93	7.11	25.74	279	0.49	3.19	CLEAR	-132.6
09:50	.24	.79	.08	4.93	7.12	25.75	280	0.50	3.20	CLEAR	-132.5
09:53	.24	1.03	.08	4.93	7.13	25.76	281	0.47	3.24	CLEAR	-134.9

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:	C. ISENHOUR (CES)	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	09:55	SAMPLING ENDED AT:	10:00

PUMP OR TUBING DEPTH IN WELL (feet):	72.5	TUBING MATERIAL CODE:	PE	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-33D	1	AG	1L	ICE	—	—	8270 PAHs	APP	≈ 200
MW-33D	1	CG	40mL	HCL	—	—	8260B BEM	APP	≈ 100
MW-33D	2	CG	40mL	ICE	—	—	8260B BEM	APP	≈ 100

REMARKS: 1/4 OD = 3/16 ID

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)

DRAFT

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME:	Shell First Coast Energy #1801	SITE LOCATION:	390 S. Powerline Rd. Deerfield Beach, FL.
WELL NO:	MW-35I	SAMPLE ID:	MW-35I
DATE:	1-14-2016		

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	OD 1/4	WELL SCREEN INTERVAL DEPTH:	40 feet to 45 feet	STATIC DEPTH TO WATER (feet):	5.75	PURGE PUMP TYPE OR BAILER:	PP

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

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (.0014 gallons/foot X 45 feet) + 0.2 gallons = .26 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	42.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	42.5	PURGING INITIATED AT:	10:21	PURGING ENDED AT:	10:33	TOTAL VOLUME PURGED (gallons):	1.07

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/l or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
10:24	.26	.26	.09	5.83	7.06	27.02	452	0.75	5.73	CLEAR	-107.2
10:27	.27	.53	.09	5.83	7.03	27.05	463	0.39	6.18	CLEAR	-105.3
10:30	.27	.80	.09	5.83	7.01	27.06	467	0.35	6.20	CLEAR	-106.3
10:33	.27	1.07	.09	5.83	7.01	27.09	469	0.33	6.17	CLEAR	-107.9

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:	C. ISENHOUR (CES)	SAMPLER(S) SIGNATURE(S):	C. Isenhour D. Chan	SAMPLING INITIATED AT:	10:35	SAMPLING ENDED AT:	10:42
PUMP OR TUBING DEPTH IN WELL (feet):	42.5	TUBING MATERIAL CODE:	PE	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-35I	1	AG	1L	ICE	—	—	8270 PAHS	APP	≈ 200
MW-35I	1	CG	40mL	HCL	—	—	8260B BEM	APP	≈ 100
MW-35I	2	CG	40mL	ICE	—	—	8260B BEM	APP	≈ 100

REMARKS:
1/4 OD = 3/16 ID

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)

DRAFT

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME:	SHELL FIRST COAST ENERGY #1801	SITE LOCATION:	390 S. POWERLINE RD. DEERFIELD BEACH, FL
WELL NO:	MW-25	SAMPLE ID:	MW-25
DATE:	1-14-2016		

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	1/4	2 feet to 12 feet	4.71	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet – 4.71 feet) X 0.16 gallons/foot = 1.17 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
6.75	6.75	10:50	11:02	2.34

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
10:56	1.17	1.17	.195	4.87	7.10	26.90	579	2.41	2.19	CLEAR	-16.1
10:59	.585	1.755	.195	4.87	7.08	26.91	577	2.39	1.40	CLEAR	-10.1
11:02	.585	2.34	.195	4.87	7.10	26.93	577	2.38	1.27	CLEAR	-5.7

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:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
C. ISENHOUR (CES)	C. Isenhour D. Cook	11:04	11:09

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
6.75	PE		

FIELD DECONTAMINATION: PUMP (Y) N TUBING Y (N replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-25	1	AG	1L	ICE	—	—	8270 PAHS	APP	≈ 200
MW-25	1	CG	40mL	HCL	—	—	8260B BEM	APP	≈ 100
MW-25	2	CG	40mL	ICE	—	—	8260B BEM	APP	≈ 100

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)

DRAFT

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Shell - First Coast Energy #1801	SITE LOCATION: 3905 Powerline Rd., Deerfield Beach, FL
WELL NO: MW-31D	SAMPLE ID: MW-31D
DATE: 1-14-16	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING (OD) DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 55 feet to 60 feet	STATIC DEPTH TO WATER (feet): 4.04	PURGE PUMP TYPE OR BAILER: PP

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

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

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

= 0 gallons + (0.0014 gallons/foot X 60 feet) + .2 gallons = .28 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 57.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 57.50	PURGING INITIATED AT: 08:21	PURGING ENDED AT: 08:37	TOTAL VOLUME PURGED (gallons): 1.12

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)	ORP (mV)
08:25	.28	.28	.07	4.35	6.86	26.4	312.2	0.37	4.09	clear	-98.9
08:28	.21	.49	.07	4.35	6.88	26.4	315.7	0.34	3.32	clear	-121.7
08:31	.21	.70	.07	4.35	6.93	26.5	322.1	0.28	2.80	clear	-133.6
08:34	.21	.91	.07	4.35	6.93	26.5	322.3	0.28	3.24	clear	-141.2
08:37	.21	1.12	.07	4.35	6.93	26.5	325.1	0.27	1.53	clear	-148.0

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: Craig Leach CES	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 08:38	SAMPLING ENDED AT: 08:44
PUMP OR TUBING DEPTH IN WELL (feet): 57.50	TUBING MATERIAL CODE: PE	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-31D	1	CG	40mL	HCL	—	—	8260B BTEX	APP	100
MW-31D	2	CG	40mL	Ice	—	—	8260B BTEX	APP	100
MW-31D	1	AG	1L	Ice	—	—	8270 PAHs	APP	250

REMARKS:

1/4 OD : 3/16 ID

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)

DRAFT

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Shell - First Coast Energy #1801	SITE LOCATION: 390 S. Powerline Rd., Deerfield Beach, FL
WELL NO: MW-27-I	SAMPLE ID: MW-27 I
DATE: 1-14-16	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 40 feet to 45 feet	STATIC DEPTH TO WATER (feet): 3.81	PURGE PUMP TYPE OR BAILER: PP

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

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 45 feet) + .2 gallons = .26 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 42.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 42.50	PURGING INITIATED AT: 09:02	PURGING ENDED AT: 09:24	TOTAL VOLUME PURGED (gallons): 1.44

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 ~~mS/cm~~	DISSOLVED OXYGEN (circle units) ~~mg/L~~ or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
09:06	.26	.26	.065	4.07	6.88	26.6	247.8	2.26	32.2	white	25.8
09:10	.26	.52	.065	4.07	6.86	26.5	252.8	1.09	57.5	white	12.6
09:14	.26	.78	.065	4.07	6.86	26.6	252.9	0.34	34.2	white	25.1
09:18	.26	1.04	.065	4.07	6.85	26.6	254.3	0.29	19.3	clear	24.8
09:21	.195	1.24	.065	4.07	6.85	26.7	253.7	0.28	13.8	clear	27.3
09:24	.195	1.44	.065	4.07	6.87	26.6	252.4	0.28	9.62	clear	27.7

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: Craig Leach (CES)	SAMPLER(S) SIGNATURE(S): G. Hall	SAMPLING INITIATED AT: 09:25	SAMPLING ENDED AT: 09:31
PUMP OR TUBING DEPTH IN WELL (feet): 42.50	TUBING MATERIAL CODE: PE	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-27I	1	CG	40mL	HCL	—	—	8260B BTEX	APP	100
MW-27I	2	CG	40mL	ICE	—	—	8260B BTEX	APP	100
MW-27I	1	AG	1L	ICE	—	—	8270 PAHs	APP	250

REMARKS: 1/4 OD = 3/16 ID

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)

DRAFT

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Shell - First Coast Energy #1801		SITE LOCATION: 3905. Powerline Rd, Deerfield Beach, FL	
WELL NO: OW-15	SAMPLE ID: OW-15	DATE: 1-14-16	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 5 feet to 15 feet	STATIC DEPTH TO WATER (feet): 4.05	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)
= (15 feet − 4.05 feet) X 0.16 gallons/foot = 1.75 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
6.0	6.0	09:45	10:08	2.88

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
09:59	1.75	1.75	.125	4.21	7.34	24.3	303.0	3.34	1.56	clear	69.3
10:02	.375	2.13	.125	4.21	7.35	24.4	297.5	3.18	1.47	clear	69.8
10:05	.375	2.50	.125	4.21	7.35	24.4	296.7	3.22	1.36	clear	72.1
10:08	.375	2.88	.125	4.21	7.34	24.4	298.1	3.25	1.25	clear	71.3

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: Craig Leach (CES)	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 10:09	SAMPLING ENDED AT: 10:14
PUMP OR TUBING DEPTH IN WELL (feet): 6.0	TUBING MATERIAL CODE: PE	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)
OW-15	2	CG	40mL	ICE	—	—	8260B BTM	APP	100
OW-15	1	CG	40mL	HCL	—	—	8260B BTM	APP	100
OW-15	1	AG	1L	ICE	—	—	8270 PAHS	APP	250

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)

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DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Shell-First Coast Energy #1801		SITE LOCATION: 390 S. Powerline Rd, Deerfield Beach, FL	
WELL NO: OW-17	SAMPLE ID: OW-17		DATE: 1-14-16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 4.07	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet − 4.07 feet) X 0.16 gallons/foot = 1.27 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
6.0	6.0	10:21	10:36	2.12

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
10:30	1.27	1.27	.141	4.30	6.93	23.9	371.9	2.86	1.10	clear	30.8
10:33	.423	1.69	.141	4.30	6.91	23.9	372.6	2.80	0.92	clear	30.2
10:36	.423	2.12	.141	4.30	6.91	23.9	372.0	2.85	0.91	clear	28.3

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: Craig Leach CES	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 10:37	SAMPLING ENDED AT: 10:42
PUMP OR TUBING DEPTH IN WELL (feet): 6.0	TUBING MATERIAL CODE: PE	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)
OW-17	1	CG	40mL	HCL	—	—	8260B Bzm	APP	100
OW-17	2	CG	40mL	ICE	—	—	8260B Bzm	APP	100
OW-17	1	AG	1L	ICE	—	—	8270 PAHS	APP	250

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)

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APPENDIX B

LABORATORY REPORTS

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Tel: 352.796.3374 ● Fax: 352.796.2449
info@creativeenvironmental.com

Advanced Environmental Laboratories, Inc.

Advanced Environmental Laboratories, Inc
10200 USA Today Way Miramar, FL 33025
Payments: P.O. Box 551580 Jacksonville, FL 32255-1580
Phone: (954)889-2288
Fax: (954)889-2281

January 20, 2016

Eric Dankrel
Creative Environmental Solutions, Inc.
700 Desoto Ave
Brooksville, FL 34601

RE: Workorder: M1600170 Shell-First Coast Energy #1801

Dear Eric Dankrel:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, January 13, 2016. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Enclosures

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SAMPLE SUMMARY

Workorder: M1600170 Shell-First Coast Energy #1801

Lab ID	Sample ID	Matrix	Date Collected	Date Received
M1600170001	OW-5	Water	1/13/2016 08:59	1/13/2016 15:00
M1600170002	OW-6	Water	1/13/2016 09:40	1/13/2016 15:00
M1600170003	OW-7	Water	1/13/2016 10:25	1/13/2016 15:00
M1600170004	OW-8	Water	1/13/2016 11:19	1/13/2016 15:00
M1600170005	OW-10	Water	1/13/2016 12:02	1/13/2016 15:00
M1600170006	MW-22DR	Water	1/13/2016 13:23	1/13/2016 15:00
M1600170007	MW-17R	Water	1/13/2016 14:03	1/13/2016 15:00
M1600170008	MW-40	Water	1/13/2016 10:36	1/13/2016 15:00
M1600170009	MW-20	Water	1/13/2016 09:00	1/13/2016 15:00
M1600170010	MW-18R	Water	1/13/2016 09:30	1/13/2016 15:00
M1600170011	MW-41	Water	1/13/2016 10:07	1/13/2016 15:00
M1600170012	MW-21D	Water	1/13/2016 11:21	1/13/2016 15:00
M1600170013	OW-12	Water	1/13/2016 11:56	1/13/2016 15:00
M1600170014	MW-29D	Water	1/13/2016 12:26	1/13/2016 15:00
M1600170015	MW-39	Water	1/13/2016 13:12	1/13/2016 15:00
M1600170016	MW-19R	Water	1/13/2016 13:44	1/13/2016 15:00
M1600170017	MW-36D	Water	1/13/2016 14:28	1/13/2016 15:00

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ANALYTICAL RESULTS

Workorder: M1600170 Shell-First Coast Energy #1801

Lab ID: **M1600170001** Date Received: 01/13/16 15:00 Matrix: Water

Sample ID: **OW-5** Date Collected: 01/13/16 08:59

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**0.041**	**U**	**ug/L**	**1**	0.20	0.041	1/16/2016 03:08	M
2-Methylnaphthalene	**0.044**	**U**	**ug/L**	**1**	0.20	0.044	1/16/2016 03:08	M
Acenaphthene	**0.048**	**U**	**ug/L**	**1**	0.20	0.048	1/16/2016 03:08	M
Acenaphthylene	**0.030**	**U**	**ug/L**	**1**	0.20	0.030	1/16/2016 03:08	M
Anthracene	**0.022**	**U**	**ug/L**	**1**	0.20	0.022	1/16/2016 03:08	M
Benzo[a]anthracene	**0.026**	**U**	**ug/L**	**1**	0.20	0.026	1/16/2016 03:08	M
Benzo[a]pyrene	**0.032**	**U**	**ug/L**	**1**	0.20	0.032	1/16/2016 03:08	M
Benzo[b]fluoranthene	**0.030**	**U**	**ug/L**	**1**	0.10	0.030	1/16/2016 03:08	M
Benzo[g,h,i]perylene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 03:08	M
Benzo[k]fluoranthene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 03:08	M
Chrysene	**0.027**	**U**	**ug/L**	**1**	0.20	0.027	1/16/2016 03:08	M
Dibenzo[a,h]anthracene	**0.029**	**U**	**ug/L**	**1**	0.20	0.029	1/16/2016 03:08	M
Fluoranthene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 03:08	M
Fluorene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 03:08	M
Indeno(1,2,3-cd)pyrene	**0.034**	**U**	**ug/L**	**1**	0.20	0.034	1/16/2016 03:08	M
Naphthalene	**0.050**	**U**	**ug/L**	**1**	0.20	0.050	1/16/2016 03:08	M
Phenanthrene	**0.051**	**U**	**ug/L**	**1**	0.20	0.051	1/16/2016 03:08	M
Pyrene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 03:08	M
Nitrobenzene-d5 (S)	**86**		**%**	**1**	32-147		1/16/2016 03:08	
2-Fluorobiphenyl (S)	**71**		**%**	**1**	34-140		1/16/2016 03:08	
p-Terphenyl-d14 (S)	**88**		**%**	**1**	54-138		1/16/2016 03:08	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	1/14/2016 19:31	M
Ethylbenzene	**0.38**	**U**	**ug/L**	**1**	1.0	0.38	1/14/2016 19:31	M
Methyl tert-butyl Ether (MTBE)	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	1/14/2016 19:31	M
Toluene	**0.49**	**U**	**ug/L**	**1**	1.0	0.49	1/14/2016 19:31	M
Xylene (Total)	**1.1**	**U**	**ug/L**	**1**	2.0	1.1	1/14/2016 19:31	M
1,2-Dichloroethane-d4 (S)	**114**		**%**	**1**	77-125		1/14/2016 19:31	
Toluene-d8 (S)	**120**		**%**	**1**	80-121		1/14/2016 19:31	
Bromofluorobenzene (S)	**101**		**%**	**1**	80-129		1/14/2016 19:31	

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ANALYTICAL RESULTS

Workorder: M1600170 Shell-First Coast Energy #1801

Lab ID: **M1600170002** Date Received: 01/13/16 15:00 Matrix: Water

Sample ID: **OW-6** Date Collected: 01/13/16 09:40

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**0.041**	**U**	**ug/L**	**1**	0.20	0.041	1/16/2016 03:35	M
2-Methylnaphthalene	**0.044**	**U**	**ug/L**	**1**	0.20	0.044	1/16/2016 03:35	M
Acenaphthene	**0.048**	**U**	**ug/L**	**1**	0.20	0.048	1/16/2016 03:35	M
Acenaphthylene	**0.030**	**U**	**ug/L**	**1**	0.20	0.030	1/16/2016 03:35	M
Anthracene	**0.022**	**U**	**ug/L**	**1**	0.20	0.022	1/16/2016 03:35	M
Benzo[a]anthracene	**0.026**	**U**	**ug/L**	**1**	0.20	0.026	1/16/2016 03:35	M
Benzo[a]pyrene	**0.032**	**U**	**ug/L**	**1**	0.20	0.032	1/16/2016 03:35	M
Benzo[b]fluoranthene	**0.030**	**U**	**ug/L**	**1**	0.10	0.030	1/16/2016 03:35	M
Benzo[g,h,i]perylene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 03:35	M
Benzo[k]fluoranthene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 03:35	M
Chrysene	**0.027**	**U**	**ug/L**	**1**	0.20	0.027	1/16/2016 03:35	M
Dibenzo[a,h]anthracene	**0.029**	**U**	**ug/L**	**1**	0.20	0.029	1/16/2016 03:35	M
Fluoranthene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 03:35	M
Fluorene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 03:35	M
Indeno(1,2,3-cd)pyrene	**0.034**	**U**	**ug/L**	**1**	0.20	0.034	1/16/2016 03:35	M
Naphthalene	**0.050**	**U**	**ug/L**	**1**	0.20	0.050	1/16/2016 03:35	M
Phenanthrene	**0.051**	**U**	**ug/L**	**1**	0.20	0.051	1/16/2016 03:35	M
Pyrene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 03:35	M
Nitrobenzene-d5 (S)	**63**		**%**	**1**	32-147		1/16/2016 03:35	
2-Fluorobiphenyl (S)	**54**		**%**	**1**	34-140		1/16/2016 03:35	
p-Terphenyl-d14 (S)	**59**		**%**	**1**	54-138		1/16/2016 03:35	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	1/14/2016 20:02	M
Ethylbenzene	**0.38**	**U**	**ug/L**	**1**	1.0	0.38	1/14/2016 20:02	M
Methyl tert-butyl Ether (MTBE)	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	1/14/2016 20:02	M
Toluene	**0.49**	**U**	**ug/L**	**1**	1.0	0.49	1/14/2016 20:02	M
Xylene (Total)	**1.1**	**U**	**ug/L**	**1**	2.0	1.1	1/14/2016 20:02	M
1,2-Dichloroethane-d4 (S)	**117**		**%**	**1**	77-125		1/14/2016 20:02	
Toluene-d8 (S)	**120**		**%**	**1**	80-121		1/14/2016 20:02	
Bromofluorobenzene (S)	**98**		**%**	**1**	80-129		1/14/2016 20:02	

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ANALYTICAL RESULTS

Workorder: M1600170 Shell-First Coast Energy #1801

Lab ID: **M1600170003** Date Received: 01/13/16 15:00 Matrix: Water

Sample ID: **OW-7** Date Collected: 01/13/16 10:25

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**0.041**	**U**	**ug/L**	**1**	0.20	0.041	1/16/2016 04:03	M
2-Methylnaphthalene	**0.044**	**U**	**ug/L**	**1**	0.20	0.044	1/16/2016 04:03	M
Acenaphthene	**0.048**	**U**	**ug/L**	**1**	0.20	0.048	1/16/2016 04:03	M
Acenaphthylene	**0.030**	**U**	**ug/L**	**1**	0.20	0.030	1/16/2016 04:03	M
Anthracene	**0.022**	**U**	**ug/L**	**1**	0.20	0.022	1/16/2016 04:03	M
Benzo[a]anthracene	**0.026**	**U**	**ug/L**	**1**	0.20	0.026	1/16/2016 04:03	M
Benzo[a]pyrene	**0.032**	**U**	**ug/L**	**1**	0.20	0.032	1/16/2016 04:03	M
Benzo[b]fluoranthene	**0.030**	**U**	**ug/L**	**1**	0.10	0.030	1/16/2016 04:03	M
Benzo[g,h,i]perylene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 04:03	M
Benzo[k]fluoranthene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 04:03	M
Chrysene	**0.027**	**U**	**ug/L**	**1**	0.20	0.027	1/16/2016 04:03	M
Dibenzo[a,h]anthracene	**0.029**	**U**	**ug/L**	**1**	0.20	0.029	1/16/2016 04:03	M
Fluoranthene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 04:03	M
Fluorene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 04:03	M
Indeno(1,2,3-cd)pyrene	**0.034**	**U**	**ug/L**	**1**	0.20	0.034	1/16/2016 04:03	M
Naphthalene	**0.050**	**U**	**ug/L**	**1**	0.20	0.050	1/16/2016 04:03	M
Phenanthrene	**0.051**	**U**	**ug/L**	**1**	0.20	0.051	1/16/2016 04:03	M
Pyrene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 04:03	M
Nitrobenzene-d5 (S)	**72**		**%**	**1**	32-147		1/16/2016 04:03	
2-Fluorobiphenyl (S)	**62**		**%**	**1**	34-140		1/16/2016 04:03	
p-Terphenyl-d14 (S)	**60**		**%**	**1**	54-138		1/16/2016 04:03	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	1/14/2016 20:33	M
Ethylbenzene	**0.38**	**U**	**ug/L**	**1**	1.0	0.38	1/14/2016 20:33	M
Methyl tert-butyl Ether (MTBE)	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	1/14/2016 20:33	M
Toluene	**0.49**	**U**	**ug/L**	**1**	1.0	0.49	1/14/2016 20:33	M
Xylene (Total)	**1.1**	**U**	**ug/L**	**1**	2.0	1.1	1/14/2016 20:33	M
1,2-Dichloroethane-d4 (S)	**110**		**%**	**1**	77-125		1/14/2016 20:33	
Toluene-d8 (S)	**121**		**%**	**1**	80-121		1/14/2016 20:33	
Bromofluorobenzene (S)	**108**		**%**	**1**	80-129		1/14/2016 20:33	

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ANALYTICAL RESULTS

Workorder: M1600170 Shell-First Coast Energy #1801

Lab ID: **M1600170004** Date Received: 01/13/16 15:00 Matrix: Water

Sample ID: **OW-8** Date Collected: 01/13/16 11:19

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**0.041**	**U**	**ug/L**	**1**	0.20	0.041	1/16/2016 04:30	M
2-Methylnaphthalene	**0.044**	**U**	**ug/L**	**1**	0.20	0.044	1/16/2016 04:30	M
Acenaphthene	**0.048**	**U**	**ug/L**	**1**	0.20	0.048	1/16/2016 04:30	M
Acenaphthylene	**0.030**	**U**	**ug/L**	**1**	0.20	0.030	1/16/2016 04:30	M
Anthracene	**0.022**	**U**	**ug/L**	**1**	0.20	0.022	1/16/2016 04:30	M
Benzo[a]anthracene	**0.026**	**U**	**ug/L**	**1**	0.20	0.026	1/16/2016 04:30	M
Benzo[a]pyrene	**0.032**	**U**	**ug/L**	**1**	0.20	0.032	1/16/2016 04:30	M
Benzo[b]fluoranthene	**0.030**	**U**	**ug/L**	**1**	0.10	0.030	1/16/2016 04:30	M
Benzo[g,h,i]perylene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 04:30	M
Benzo[k]fluoranthene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 04:30	M
Chrysene	**0.027**	**U**	**ug/L**	**1**	0.20	0.027	1/16/2016 04:30	M
Dibenzo[a,h]anthracene	**0.029**	**U**	**ug/L**	**1**	0.20	0.029	1/16/2016 04:30	M
Fluoranthene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 04:30	M
Fluorene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 04:30	M
Indeno(1,2,3-cd)pyrene	**0.034**	**U**	**ug/L**	**1**	0.20	0.034	1/16/2016 04:30	M
Naphthalene	**0.050**	**U**	**ug/L**	**1**	0.20	0.050	1/16/2016 04:30	M
Phenanthrene	**0.051**	**U**	**ug/L**	**1**	0.20	0.051	1/16/2016 04:30	M
Pyrene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 04:30	M
Nitrobenzene-d5 (S)	**72**		**%**	**1**	32-147		1/16/2016 04:30	
2-Fluorobiphenyl (S)	**59**		**%**	**1**	34-140		1/16/2016 04:30	
p-Terphenyl-d14 (S)	**55**		**%**	**1**	54-138		1/16/2016 04:30	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	1/14/2016 21:03	M
Ethylbenzene	**0.38**	**U**	**ug/L**	**1**	1.0	0.38	1/14/2016 21:03	M
Methyl tert-butyl Ether (MTBE)	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	1/14/2016 21:03	M
Toluene	**0.49**	**U**	**ug/L**	**1**	1.0	0.49	1/14/2016 21:03	M
Xylene (Total)	**1.1**	**U**	**ug/L**	**1**	2.0	1.1	1/14/2016 21:03	M
1,2-Dichloroethane-d4 (S)	**112**		**%**	**1**	77-125		1/14/2016 21:03	
Toluene-d8 (S)	**121**		**%**	**1**	80-121		1/14/2016 21:03	
Bromofluorobenzene (S)	**97**		**%**	**1**	80-129		1/14/2016 21:03	

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ANALYTICAL RESULTS

Workorder: M1600170 Shell-First Coast Energy #1801

Lab ID: **M1600170005** Date Received: 01/13/16 15:00 Matrix: Water

Sample ID: **OW-10** Date Collected: 01/13/16 12:02

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**12**		**ug/L**	**1**	0.20	0.041	1/16/2016 04:58	M
2-Methylnaphthalene	**20**		**ug/L**	**1**	0.20	0.044	1/16/2016 04:58	M
Acenaphthene	**0.072**	**I**	**ug/L**	**1**	0.20	0.048	1/16/2016 04:58	M
Acenaphthylene	**0.030**	**U**	**ug/L**	**1**	0.20	0.030	1/16/2016 04:58	M
Anthracene	**0.022**	**U**	**ug/L**	**1**	0.20	0.022	1/16/2016 04:58	M
Benzo[a]anthracene	**0.026**	**U**	**ug/L**	**1**	0.20	0.026	1/16/2016 04:58	M
Benzo[a]pyrene	**0.032**	**U**	**ug/L**	**1**	0.20	0.032	1/16/2016 04:58	M
Benzo[b]fluoranthene	**0.030**	**U**	**ug/L**	**1**	0.10	0.030	1/16/2016 04:58	M
Benzo[g,h,i]perylene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 04:58	M
Benzo[k]fluoranthene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 04:58	M
Chrysene	**0.027**	**U**	**ug/L**	**1**	0.20	0.027	1/16/2016 04:58	M
Dibenzo[a,h]anthracene	**0.029**	**U**	**ug/L**	**1**	0.20	0.029	1/16/2016 04:58	M
Fluoranthene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 04:58	M
Fluorene	**0.066**	**I**	**ug/L**	**1**	0.20	0.036	1/16/2016 04:58	M
Indeno(1,2,3-cd)pyrene	**0.034**	**U**	**ug/L**	**1**	0.20	0.034	1/16/2016 04:58	M
Naphthalene	**11**		**ug/L**	**1**	0.20	0.050	1/16/2016 04:58	M
Phenanthrene	**0.051**	**U**	**ug/L**	**1**	0.20	0.051	1/16/2016 04:58	M
Pyrene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 04:58	M
Nitrobenzene-d5 (S)	**61**		**%**	**1**	32-147		1/16/2016 04:58	
2-Fluorobiphenyl (S)	**60**		**%**	**1**	34-140		1/16/2016 04:58	
p-Terphenyl-d14 (S)	**64**		**%**	**1**	54-138		1/16/2016 04:58	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	**0.52**	**I**	**ug/L**	**1**	1.0	0.36	1/14/2016 21:34	M
Ethylbenzene	**0.41**	**I**	**ug/L**	**1**	1.0	0.38	1/14/2016 21:34	M
Methyl tert-butyl Ether (MTBE)	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	1/14/2016 21:34	M
Toluene	**0.49**	**U**	**ug/L**	**1**	1.0	0.49	1/14/2016 21:34	M
Xylene (Total)	**1.1**	**U**	**ug/L**	**1**	2.0	1.1	1/14/2016 21:34	M
1,2-Dichloroethane-d4 (S)	**113**		**%**	**1**	77-125		1/14/2016 21:34	
Toluene-d8 (S)	**120**		**%**	**1**	80-121		1/14/2016 21:34	
Bromofluorobenzene (S)	**102**		**%**	**1**	80-129		1/14/2016 21:34	

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ANALYTICAL RESULTS

Workorder: M1600170 Shell-First Coast Energy #1801

Lab ID: **M1600170006** Date Received: 01/13/16 15:00 Matrix: Water

Sample ID: **MW-22DR** Date Collected: 01/13/16 13:23

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**0.041**	**U**	**ug/L**	**1**	0.20	0.041	1/16/2016 05:25	M
2-Methylnaphthalene	**0.044**	**U**	**ug/L**	**1**	0.20	0.044	1/16/2016 05:25	M
Acenaphthene	**0.048**	**U**	**ug/L**	**1**	0.20	0.048	1/16/2016 05:25	M
Acenaphthylene	**0.030**	**U**	**ug/L**	**1**	0.20	0.030	1/16/2016 05:25	M
Anthracene	**0.022**	**U**	**ug/L**	**1**	0.20	0.022	1/16/2016 05:25	M
Benzo[a]anthracene	**0.026**	**U**	**ug/L**	**1**	0.20	0.026	1/16/2016 05:25	M
Benzo[a]pyrene	**0.032**	**U**	**ug/L**	**1**	0.20	0.032	1/16/2016 05:25	M
Benzo[b]fluoranthene	**0.030**	**U**	**ug/L**	**1**	0.10	0.030	1/16/2016 05:25	M
Benzo[g,h,i]perylene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 05:25	M
Benzo[k]fluoranthene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 05:25	M
Chrysene	**0.027**	**U**	**ug/L**	**1**	0.20	0.027	1/16/2016 05:25	M
Dibenzo[a,h]anthracene	**0.029**	**U**	**ug/L**	**1**	0.20	0.029	1/16/2016 05:25	M
Fluoranthene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 05:25	M
Fluorene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 05:25	M
Indeno(1,2,3-cd)pyrene	**0.034**	**U**	**ug/L**	**1**	0.20	0.034	1/16/2016 05:25	M
Naphthalene	**0.10**	**I**	**ug/L**	**1**	0.20	0.050	1/16/2016 05:25	M
Phenanthrene	**0.051**	**U**	**ug/L**	**1**	0.20	0.051	1/16/2016 05:25	M
Pyrene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 05:25	M
Nitrobenzene-d5 (S)	**89**		**%**	**1**	32-147		1/16/2016 05:25	
2-Fluorobiphenyl (S)	**77**		**%**	**1**	34-140		1/16/2016 05:25	
p-Terphenyl-d14 (S)	**77**		**%**	**1**	54-138		1/16/2016 05:25	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	1/14/2016 22:05	M
Ethylbenzene	**0.38**	**U**	**ug/L**	**1**	1.0	0.38	1/14/2016 22:05	M
Methyl tert-butyl Ether (MTBE)	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	1/14/2016 22:05	M
Toluene	**0.49**	**U**	**ug/L**	**1**	1.0	0.49	1/14/2016 22:05	M
Xylene (Total)	**1.1**	**U**	**ug/L**	**1**	2.0	1.1	1/14/2016 22:05	M
1,2-Dichloroethane-d4 (S)	**112**		**%**	**1**	77-125		1/14/2016 22:05	
Toluene-d8 (S)	**119**		**%**	**1**	80-121		1/14/2016 22:05	
Bromofluorobenzene (S)	**106**		**%**	**1**	80-129		1/14/2016 22:05	

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ANALYTICAL RESULTS

Workorder: M1600170 Shell-First Coast Energy #1801

Lab ID: **M1600170007** Date Received: 01/13/16 15:00 Matrix: Water

Sample ID: **MW-17R** Date Collected: 01/13/16 14:03

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**0.055**	**I**	**ug/L**	**1**	0.20	0.041	1/16/2016 05:53	M
2-Methylnaphthalene	**0.066**	**I**	**ug/L**	**1**	0.20	0.044	1/16/2016 05:53	M
Acenaphthene	**0.048**	**U**	**ug/L**	**1**	0.20	0.048	1/16/2016 05:53	M
Acenaphthylene	**0.030**	**U**	**ug/L**	**1**	0.20	0.030	1/16/2016 05:53	M
Anthracene	**0.022**	**U**	**ug/L**	**1**	0.20	0.022	1/16/2016 05:53	M
Benzo[a]anthracene	**0.026**	**U**	**ug/L**	**1**	0.20	0.026	1/16/2016 05:53	M
Benzo[a]pyrene	**0.032**	**U**	**ug/L**	**1**	0.20	0.032	1/16/2016 05:53	M
Benzo[b]fluoranthene	**0.030**	**U**	**ug/L**	**1**	0.10	0.030	1/16/2016 05:53	M
Benzo[g,h,i]perylene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 05:53	M
Benzo[k]fluoranthene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 05:53	M
Chrysene	**0.027**	**U**	**ug/L**	**1**	0.20	0.027	1/16/2016 05:53	M
Dibenzo[a,h]anthracene	**0.029**	**U**	**ug/L**	**1**	0.20	0.029	1/16/2016 05:53	M
Fluoranthene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 05:53	M
Fluorene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 05:53	M
Indeno(1,2,3-cd)pyrene	**0.034**	**U**	**ug/L**	**1**	0.20	0.034	1/16/2016 05:53	M
Naphthalene	**0.055**	**I**	**ug/L**	**1**	0.20	0.050	1/16/2016 05:53	M
Phenanthrene	**0.051**	**U**	**ug/L**	**1**	0.20	0.051	1/16/2016 05:53	M
Pyrene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 05:53	M
Nitrobenzene-d5 (S)	**69**		**%**	**1**	32-147		1/16/2016 05:53	
2-Fluorobiphenyl (S)	**62**		**%**	**1**	34-140		1/16/2016 05:53	
p-Terphenyl-d14 (S)	**62**		**%**	**1**	54-138		1/16/2016 05:53	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	1/14/2016 22:35	M
Ethylbenzene	**0.38**	**U**	**ug/L**	**1**	1.0	0.38	1/14/2016 22:35	M
Methyl tert-butyl Ether (MTBE)	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	1/14/2016 22:35	M
Toluene	**0.49**	**U**	**ug/L**	**1**	1.0	0.49	1/14/2016 22:35	M
Xylene (Total)	**1.1**	**U**	**ug/L**	**1**	2.0	1.1	1/14/2016 22:35	M
1,2-Dichloroethane-d4 (S)	**108**		**%**	**1**	77-125		1/14/2016 22:35	
Toluene-d8 (S)	**121**		**%**	**1**	80-121		1/14/2016 22:35	
Bromofluorobenzene (S)	**104**		**%**	**1**	80-129		1/14/2016 22:35	

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ANALYTICAL RESULTS

Workorder: M1600170 Shell-First Coast Energy #1801

Lab ID: **M1600170008** Date Received: 01/13/16 15:00 Matrix: Water

Sample ID: **MW-40** Date Collected: 01/13/16 10:36

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**20**		**ug/L**	**1**	0.20	0.041	1/16/2016 06:21	M
2-Methylnaphthalene	**13**		**ug/L**	**1**	0.20	0.044	1/16/2016 06:21	M
Acenaphthene	**0.10**	**I**	**ug/L**	**1**	0.20	0.048	1/16/2016 06:21	M
Acenaphthylene	**0.030**	**U**	**ug/L**	**1**	0.20	0.030	1/16/2016 06:21	M
Anthracene	**0.022**	**U**	**ug/L**	**1**	0.20	0.022	1/16/2016 06:21	M
Benzo[a]anthracene	**0.026**	**U**	**ug/L**	**1**	0.20	0.026	1/16/2016 06:21	M
Benzo[a]pyrene	**0.032**	**U**	**ug/L**	**1**	0.20	0.032	1/16/2016 06:21	M
Benzo[b]fluoranthene	**0.030**	**U**	**ug/L**	**1**	0.10	0.030	1/16/2016 06:21	M
Benzo[g,h,i]perylene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 06:21	M
Benzo[k]fluoranthene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 06:21	M
Chrysene	**0.027**	**U**	**ug/L**	**1**	0.20	0.027	1/16/2016 06:21	M
Dibenzo[a,h]anthracene	**0.029**	**U**	**ug/L**	**1**	0.20	0.029	1/16/2016 06:21	M
Fluoranthene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 06:21	M
Fluorene	**0.075**	**I**	**ug/L**	**1**	0.20	0.036	1/16/2016 06:21	M
Indeno(1,2,3-cd)pyrene	**0.034**	**U**	**ug/L**	**1**	0.20	0.034	1/16/2016 06:21	M
Naphthalene	**0.67**		**ug/L**	**1**	0.20	0.050	1/16/2016 06:21	M
Phenanthrene	**0.052**	**I**	**ug/L**	**1**	0.20	0.051	1/16/2016 06:21	M
Pyrene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 06:21	M
Nitrobenzene-d5 (S)	**70**		**%**	**1**	32-147		1/16/2016 06:21	
2-Fluorobiphenyl (S)	**69**		**%**	**1**	34-140		1/16/2016 06:21	
p-Terphenyl-d14 (S)	**64**		**%**	**1**	54-138		1/16/2016 06:21	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	1/14/2016 23:06	M
Ethylbenzene	**0.38**	**U**	**ug/L**	**1**	1.0	0.38	1/14/2016 23:06	M
Methyl tert-butyl Ether (MTBE)	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	1/14/2016 23:06	M
Toluene	**0.49**	**U**	**ug/L**	**1**	1.0	0.49	1/14/2016 23:06	M
Xylene (Total)	**1.1**	**U**	**ug/L**	**1**	2.0	1.1	1/14/2016 23:06	M
1,2-Dichloroethane-d4 (S)	**111**		**%**	**1**	77-125		1/14/2016 23:06	
Toluene-d8 (S)	**120**		**%**	**1**	80-121		1/14/2016 23:06	
Bromofluorobenzene (S)	**104**		**%**	**1**	80-129		1/14/2016 23:06	

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ANALYTICAL RESULTS

Workorder: M1600170 Shell-First Coast Energy #1801

Lab ID: **M1600170009** Date Received: 01/13/16 15:00 Matrix: Water

Sample ID: **MW-20** Date Collected: 01/13/16 09:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**0.041**	**U**	**ug/L**	**1**	0.20	0.041	1/16/2016 06:48	M
2-Methylnaphthalene	**0.044**	**U**	**ug/L**	**1**	0.20	0.044	1/16/2016 06:48	M
Acenaphthene	**0.048**	**U**	**ug/L**	**1**	0.20	0.048	1/16/2016 06:48	M
Acenaphthylene	**0.030**	**U**	**ug/L**	**1**	0.20	0.030	1/16/2016 06:48	M
Anthracene	**0.022**	**U**	**ug/L**	**1**	0.20	0.022	1/16/2016 06:48	M
Benzo[a]anthracene	**0.026**	**U**	**ug/L**	**1**	0.20	0.026	1/16/2016 06:48	M
Benzo[a]pyrene	**0.032**	**U**	**ug/L**	**1**	0.20	0.032	1/16/2016 06:48	M
Benzo[b]fluoranthene	**0.030**	**U**	**ug/L**	**1**	0.10	0.030	1/16/2016 06:48	M
Benzo[g,h,i]perylene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 06:48	M
Benzo[k]fluoranthene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 06:48	M
Chrysene	**0.027**	**U**	**ug/L**	**1**	0.20	0.027	1/16/2016 06:48	M
Dibenzo[a,h]anthracene	**0.029**	**U**	**ug/L**	**1**	0.20	0.029	1/16/2016 06:48	M
Fluoranthene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 06:48	M
Fluorene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 06:48	M
Indeno(1,2,3-cd)pyrene	**0.034**	**U**	**ug/L**	**1**	0.20	0.034	1/16/2016 06:48	M
Naphthalene	**0.050**	**U**	**ug/L**	**1**	0.20	0.050	1/16/2016 06:48	M
Phenanthrene	**0.051**	**U**	**ug/L**	**1**	0.20	0.051	1/16/2016 06:48	M
Pyrene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 06:48	M
Nitrobenzene-d5 (S)	**66**		**%**	**1**	32-147		1/16/2016 06:48	
2-Fluorobiphenyl (S)	**59**		**%**	**1**	34-140		1/16/2016 06:48	
p-Terphenyl-d14 (S)	**60**		**%**	**1**	54-138		1/16/2016 06:48	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	1/14/2016 23:36	M
Ethylbenzene	**0.38**	**U**	**ug/L**	**1**	1.0	0.38	1/14/2016 23:36	M
Methyl tert-butyl Ether (MTBE)	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	1/14/2016 23:36	M
Toluene	**0.49**	**U**	**ug/L**	**1**	1.0	0.49	1/14/2016 23:36	M
Xylene (Total)	**1.1**	**U**	**ug/L**	**1**	2.0	1.1	1/14/2016 23:36	M
1,2-Dichloroethane-d4 (S)	**111**		**%**	**1**	77-125		1/14/2016 23:36	
Toluene-d8 (S)	**119**		**%**	**1**	80-121		1/14/2016 23:36	
Bromofluorobenzene (S)	**101**		**%**	**1**	80-129		1/14/2016 23:36	

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ANALYTICAL RESULTS

Workorder: M1600170 Shell-First Coast Energy #1801

Lab ID: **M1600170010** Date Received: 01/13/16 15:00 Matrix: Water

Sample ID: **MW-18R** Date Collected: 01/13/16 09:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**130**		**ug/L**	**10**	2.0	0.41	1/16/2016 11:51	M
2-Methylnaphthalene	**290**		**ug/L**	**10**	2.0	0.44	1/16/2016 11:51	M
Acenaphthene	**0.50**	**I**	**ug/L**	**10**	2.0	0.48	1/16/2016 11:51	M
Acenaphthylene	**0.30**	**U**	**ug/L**	**10**	2.0	0.30	1/16/2016 11:51	M
Anthracene	**0.22**	**U**	**ug/L**	**10**	2.0	0.22	1/16/2016 11:51	M
Benzo[a]anthracene	**0.26**	**U**	**ug/L**	**10**	2.0	0.26	1/16/2016 11:51	M
Benzo[a]pyrene	**0.32**	**U**	**ug/L**	**10**	2.0	0.32	1/16/2016 11:51	M
Benzo[b]fluoranthene	**0.30**	**U**	**ug/L**	**10**	1.0	0.30	1/16/2016 11:51	M
Benzo[g,h,i]perylene	**0.33**	**U**	**ug/L**	**10**	2.0	0.33	1/16/2016 11:51	M
Benzo[k]fluoranthene	**0.33**	**U**	**ug/L**	**10**	2.0	0.33	1/16/2016 11:51	M
Chrysene	**0.27**	**U**	**ug/L**	**10**	2.0	0.27	1/16/2016 11:51	M
Dibenzo[a,h]anthracene	**0.29**	**U**	**ug/L**	**10**	2.0	0.29	1/16/2016 11:51	M
Fluoranthene	**0.36**	**U**	**ug/L**	**10**	2.0	0.36	1/16/2016 11:51	M
Fluorene	**0.37**	**I**	**ug/L**	**10**	2.0	0.36	1/16/2016 11:51	M
Indeno(1,2,3-cd)pyrene	**0.34**	**U**	**ug/L**	**10**	2.0	0.34	1/16/2016 11:51	M
Naphthalene	**360**		**ug/L**	**10**	2.0	0.50	1/16/2016 11:51	M
Phenanthrene	**0.51**	**U**	**ug/L**	**10**	2.0	0.51	1/16/2016 11:51	M
Pyrene	**0.36**	**U**	**ug/L**	**10**	2.0	0.36	1/16/2016 11:51	M
Nitrobenzene-d5 (S)	**0**	**1**	**%**	**10**	32-147		1/16/2016 11:51	
2-Fluorobiphenyl (S)	**0**	**1**	**%**	**10**	34-140		1/16/2016 11:51	
p-Terphenyl-d14 (S)	**0**	**1**	**%**	**10**	54-138		1/16/2016 11:51	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	**7.9**		**ug/L**	**1**	1.0	0.36	1/15/2016 00:07	M
Ethylbenzene	**640**		**ug/L**	**10**	10	3.8	1/15/2016 14:49	M
Methyl tert-butyl Ether (MTBE)	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	1/15/2016 00:07	M
Toluene	**0.49**	**U**	**ug/L**	**1**	1.0	0.49	1/15/2016 00:07	M
Xylene (Total)	**17**		**ug/L**	**1**	2.0	1.1	1/15/2016 00:07	M
1,2-Dichloroethane-d4 (S)	**108**		**%**	**1**	77-125		1/15/2016 00:07	
Toluene-d8 (S)	**120**		**%**	**1**	80-121		1/15/2016 00:07	
Bromofluorobenzene (S)	**84**		**%**	**1**	80-129		1/15/2016 00:07	

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ANALYTICAL RESULTS

Workorder: M1600170 Shell-First Coast Energy #1801

Lab ID: **M1600170011** Date Received: 01/13/16 15:00 Matrix: Water

Sample ID: **MW-41** Date Collected: 01/13/16 10:07

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**0.041**	**U**	**ug/L**	**1**	0.20	0.041	1/16/2016 07:44	M
2-Methylnaphthalene	**0.044**	**U**	**ug/L**	**1**	0.20	0.044	1/16/2016 07:44	M
Acenaphthene	**0.048**	**U**	**ug/L**	**1**	0.20	0.048	1/16/2016 07:44	M
Acenaphthylene	**0.030**	**U**	**ug/L**	**1**	0.20	0.030	1/16/2016 07:44	M
Anthracene	**0.022**	**U**	**ug/L**	**1**	0.20	0.022	1/16/2016 07:44	M
Benzo[a]anthracene	**0.026**	**U**	**ug/L**	**1**	0.20	0.026	1/16/2016 07:44	M
Benzo[a]pyrene	**0.032**	**U**	**ug/L**	**1**	0.20	0.032	1/16/2016 07:44	M
Benzo[b]fluoranthene	**0.030**	**U**	**ug/L**	**1**	0.10	0.030	1/16/2016 07:44	M
Benzo[g,h,i]perylene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 07:44	M
Benzo[k]fluoranthene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 07:44	M
Chrysene	**0.027**	**U**	**ug/L**	**1**	0.20	0.027	1/16/2016 07:44	M
Dibenzo[a,h]anthracene	**0.029**	**U**	**ug/L**	**1**	0.20	0.029	1/16/2016 07:44	M
Fluoranthene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 07:44	M
Fluorene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 07:44	M
Indeno(1,2,3-cd)pyrene	**0.034**	**U**	**ug/L**	**1**	0.20	0.034	1/16/2016 07:44	M
Naphthalene	**0.050**	**U**	**ug/L**	**1**	0.20	0.050	1/16/2016 07:44	M
Phenanthrene	**0.051**	**U**	**ug/L**	**1**	0.20	0.051	1/16/2016 07:44	M
Pyrene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 07:44	M
Nitrobenzene-d5 (S)	**66**		**%**	**1**	32-147		1/16/2016 07:44	
2-Fluorobiphenyl (S)	**60**		**%**	**1**	34-140		1/16/2016 07:44	
p-Terphenyl-d14 (S)	**65**		**%**	**1**	54-138		1/16/2016 07:44	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	1/15/2016 00:38	M
Ethylbenzene	**0.38**	**U**	**ug/L**	**1**	1.0	0.38	1/15/2016 00:38	M
Methyl tert-butyl Ether (MTBE)	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	1/15/2016 00:38	M
Toluene	**0.49**	**U**	**ug/L**	**1**	1.0	0.49	1/15/2016 00:38	M
Xylene (Total)	**1.1**	**U**	**ug/L**	**1**	2.0	1.1	1/15/2016 00:38	M
1,2-Dichloroethane-d4 (S)	**122**		**%**	**1**	77-125		1/15/2016 00:38	
Toluene-d8 (S)	**117**		**%**	**1**	80-121		1/15/2016 00:38	
Bromofluorobenzene (S)	**104**		**%**	**1**	80-129		1/15/2016 00:38	

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ANALYTICAL RESULTS

Workorder: M1600170 Shell-First Coast Energy #1801

Lab ID: **M1600170012** Date Received: 01/13/16 15:00 Matrix: Water

Sample ID: **MW-21D** Date Collected: 01/13/16 11:21

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**0.072**	**I**	**ug/L**	**1**	0.20	0.041	1/16/2016 08:11	M
2-Methylnaphthalene	**0.044**	**U**	**ug/L**	**1**	0.20	0.044	1/16/2016 08:11	M
Acenaphthene	**0.048**	**U**	**ug/L**	**1**	0.20	0.048	1/16/2016 08:11	M
Acenaphthylene	**0.030**	**U**	**ug/L**	**1**	0.20	0.030	1/16/2016 08:11	M
Anthracene	**0.022**	**U**	**ug/L**	**1**	0.20	0.022	1/16/2016 08:11	M
Benzo[a]anthracene	**0.026**	**U**	**ug/L**	**1**	0.20	0.026	1/16/2016 08:11	M
Benzo[a]pyrene	**0.032**	**U**	**ug/L**	**1**	0.20	0.032	1/16/2016 08:11	M
Benzo[b]fluoranthene	**0.030**	**U**	**ug/L**	**1**	0.10	0.030	1/16/2016 08:11	M
Benzo[g,h,i]perylene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 08:11	M
Benzo[k]fluoranthene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 08:11	M
Chrysene	**0.027**	**U**	**ug/L**	**1**	0.20	0.027	1/16/2016 08:11	M
Dibenzo[a,h]anthracene	**0.029**	**U**	**ug/L**	**1**	0.20	0.029	1/16/2016 08:11	M
Fluoranthene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 08:11	M
Fluorene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 08:11	M
Indeno(1,2,3-cd)pyrene	**0.034**	**U**	**ug/L**	**1**	0.20	0.034	1/16/2016 08:11	M
Naphthalene	**0.38**		**ug/L**	**1**	0.20	0.050	1/16/2016 08:11	M
Phenanthrene	**0.051**	**U**	**ug/L**	**1**	0.20	0.051	1/16/2016 08:11	M
Pyrene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 08:11	M
Nitrobenzene-d5 (S)	**87**		**%**	**1**	32-147		1/16/2016 08:11	
2-Fluorobiphenyl (S)	**75**		**%**	**1**	34-140		1/16/2016 08:11	
p-Terphenyl-d14 (S)	**73**		**%**	**1**	54-138		1/16/2016 08:11	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	1/15/2016 15:20	M
Ethylbenzene	**0.38**	**U**	**ug/L**	**1**	1.0	0.38	1/15/2016 15:20	M
Methyl tert-butyl Ether (MTBE)	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	1/15/2016 15:20	M
Toluene	**0.49**	**U**	**ug/L**	**1**	1.0	0.49	1/15/2016 15:20	M
Xylene (Total)	**1.1**	**U**	**ug/L**	**1**	2.0	1.1	1/15/2016 15:20	M
1,2-Dichloroethane-d4 (S)	**112**		**%**	**1**	77-125		1/15/2016 15:20	
Toluene-d8 (S)	**120**		**%**	**1**	80-121		1/15/2016 15:20	
Bromofluorobenzene (S)	**111**		**%**	**1**	80-129		1/15/2016 15:20	

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ANALYTICAL RESULTS

Workorder: M1600170 Shell-First Coast Energy #1801

Lab ID: **M1600170013** Date Received: 01/13/16 15:00 Matrix: Water

Sample ID: **OW-12** Date Collected: 01/13/16 11:56

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**0.049**	**I**	**ug/L**	**1**	0.20	0.041	1/16/2016 08:39	M
2-Methylnaphthalene	**0.045**	**I**	**ug/L**	**1**	0.20	0.044	1/16/2016 08:39	M
Acenaphthene	**0.048**	**U**	**ug/L**	**1**	0.20	0.048	1/16/2016 08:39	M
Acenaphthylene	**0.030**	**U**	**ug/L**	**1**	0.20	0.030	1/16/2016 08:39	M
Anthracene	**0.022**	**U**	**ug/L**	**1**	0.20	0.022	1/16/2016 08:39	M
Benzo[a]anthracene	**0.026**	**U**	**ug/L**	**1**	0.20	0.026	1/16/2016 08:39	M
Benzo[a]pyrene	**0.032**	**U**	**ug/L**	**1**	0.20	0.032	1/16/2016 08:39	M
Benzo[b]fluoranthene	**0.030**	**U**	**ug/L**	**1**	0.10	0.030	1/16/2016 08:39	M
Benzo[g,h,i]perylene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 08:39	M
Benzo[k]fluoranthene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 08:39	M
Chrysene	**0.027**	**U**	**ug/L**	**1**	0.20	0.027	1/16/2016 08:39	M
Dibenzo[a,h]anthracene	**0.029**	**U**	**ug/L**	**1**	0.20	0.029	1/16/2016 08:39	M
Fluoranthene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 08:39	M
Fluorene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 08:39	M
Indeno(1,2,3-cd)pyrene	**0.034**	**U**	**ug/L**	**1**	0.20	0.034	1/16/2016 08:39	M
Naphthalene	**0.18**	**I**	**ug/L**	**1**	0.20	0.050	1/16/2016 08:39	M
Phenanthrene	**0.051**	**U**	**ug/L**	**1**	0.20	0.051	1/16/2016 08:39	M
Pyrene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 08:39	M
Nitrobenzene-d5 (S)	**79**		**%**	**1**	32-147		1/16/2016 08:39	
2-Fluorobiphenyl (S)	**74**		**%**	**1**	34-140		1/16/2016 08:39	
p-Terphenyl-d14 (S)	**74**		**%**	**1**	54-138		1/16/2016 08:39	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	1/15/2016 15:51	M
Ethylbenzene	**0.38**	**U**	**ug/L**	**1**	1.0	0.38	1/15/2016 15:51	M
Methyl tert-butyl Ether (MTBE)	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	1/15/2016 15:51	M
Toluene	**0.49**	**U**	**ug/L**	**1**	1.0	0.49	1/15/2016 15:51	M
Xylene (Total)	**1.1**	**U**	**ug/L**	**1**	2.0	1.1	1/15/2016 15:51	M
1,2-Dichloroethane-d4 (S)	**115**		**%**	**1**	77-125		1/15/2016 15:51	
Toluene-d8 (S)	**121**		**%**	**1**	80-121		1/15/2016 15:51	
Bromofluorobenzene (S)	**104**		**%**	**1**	80-129		1/15/2016 15:51	

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ANALYTICAL RESULTS

Workorder: M1600170 Shell-First Coast Energy #1801

Lab ID: **M1600170014** Date Received: 01/13/16 15:00 Matrix: Water

Sample ID: **MW-29D** Date Collected: 01/13/16 12:26

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**0.041**	**U**	**ug/L**	**1**	0.20	0.041	1/16/2016 09:06	M
2-Methylnaphthalene	**0.044**	**U**	**ug/L**	**1**	0.20	0.044	1/16/2016 09:06	M
Acenaphthene	**0.048**	**U**	**ug/L**	**1**	0.20	0.048	1/16/2016 09:06	M
Acenaphthylene	**0.030**	**U**	**ug/L**	**1**	0.20	0.030	1/16/2016 09:06	M
Anthracene	**0.022**	**U**	**ug/L**	**1**	0.20	0.022	1/16/2016 09:06	M
Benzo[a]anthracene	**0.026**	**U**	**ug/L**	**1**	0.20	0.026	1/16/2016 09:06	M
Benzo[a]pyrene	**0.032**	**U**	**ug/L**	**1**	0.20	0.032	1/16/2016 09:06	M
Benzo[b]fluoranthene	**0.030**	**U**	**ug/L**	**1**	0.10	0.030	1/16/2016 09:06	M
Benzo[g,h,i]perylene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 09:06	M
Benzo[k]fluoranthene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 09:06	M
Chrysene	**0.027**	**U**	**ug/L**	**1**	0.20	0.027	1/16/2016 09:06	M
Dibenzo[a,h]anthracene	**0.029**	**U**	**ug/L**	**1**	0.20	0.029	1/16/2016 09:06	M
Fluoranthene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 09:06	M
Fluorene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 09:06	M
Indeno(1,2,3-cd)pyrene	**0.034**	**U**	**ug/L**	**1**	0.20	0.034	1/16/2016 09:06	M
Naphthalene	**0.10**	**I**	**ug/L**	**1**	0.20	0.050	1/16/2016 09:06	M
Phenanthrene	**0.051**	**U**	**ug/L**	**1**	0.20	0.051	1/16/2016 09:06	M
Pyrene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 09:06	M
Nitrobenzene-d5 (S)	**73**		**%**	**1**	32-147		1/16/2016 09:06	
2-Fluorobiphenyl (S)	**67**		**%**	**1**	34-140		1/16/2016 09:06	
p-Terphenyl-d14 (S)	**65**		**%**	**1**	54-138		1/16/2016 09:06	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	1/15/2016 16:22	M
Ethylbenzene	**0.38**	**U**	**ug/L**	**1**	1.0	0.38	1/15/2016 16:22	M
Methyl tert-butyl Ether (MTBE)	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	1/15/2016 16:22	M
Toluene	**0.49**	**U**	**ug/L**	**1**	1.0	0.49	1/15/2016 16:22	M
Xylene (Total)	**1.1**	**U**	**ug/L**	**1**	2.0	1.1	1/15/2016 16:22	M
1,2-Dichloroethane-d4 (S)	**111**		**%**	**1**	77-125		1/15/2016 16:22	
Toluene-d8 (S)	**120**		**%**	**1**	80-121		1/15/2016 16:22	
Bromofluorobenzene (S)	**102**		**%**	**1**	80-129		1/15/2016 16:22	

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ANALYTICAL RESULTS

Workorder: M1600170 Shell-First Coast Energy #1801

Lab ID: **M1600170015** Date Received: 01/13/16 15:00 Matrix: Water

Sample ID: **MW-39** Date Collected: 01/13/16 13:12

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**0.041**	**U**	**ug/L**	**1**	0.20	0.041	1/16/2016 09:34	M
2-Methylnaphthalene	**0.044**	**U**	**ug/L**	**1**	0.20	0.044	1/16/2016 09:34	M
Acenaphthene	**0.048**	**U**	**ug/L**	**1**	0.20	0.048	1/16/2016 09:34	M
Acenaphthylene	**0.030**	**U**	**ug/L**	**1**	0.20	0.030	1/16/2016 09:34	M
Anthracene	**0.022**	**U**	**ug/L**	**1**	0.20	0.022	1/16/2016 09:34	M
Benzo[a]anthracene	**0.026**	**U**	**ug/L**	**1**	0.20	0.026	1/16/2016 09:34	M
Benzo[a]pyrene	**0.032**	**U**	**ug/L**	**1**	0.20	0.032	1/16/2016 09:34	M
Benzo[b]fluoranthene	**0.030**	**U**	**ug/L**	**1**	0.10	0.030	1/16/2016 09:34	M
Benzo[g,h,i]perylene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 09:34	M
Benzo[k]fluoranthene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 09:34	M
Chrysene	**0.027**	**U**	**ug/L**	**1**	0.20	0.027	1/16/2016 09:34	M
Dibenzo[a,h]anthracene	**0.029**	**U**	**ug/L**	**1**	0.20	0.029	1/16/2016 09:34	M
Fluoranthene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 09:34	M
Fluorene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 09:34	M
Indeno(1,2,3-cd)pyrene	**0.034**	**U**	**ug/L**	**1**	0.20	0.034	1/16/2016 09:34	M
Naphthalene	**0.050**	**U**	**ug/L**	**1**	0.20	0.050	1/16/2016 09:34	M
Phenanthrene	**0.051**	**U**	**ug/L**	**1**	0.20	0.051	1/16/2016 09:34	M
Pyrene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 09:34	M
Nitrobenzene-d5 (S)	**70**		**%**	**1**	32-147		1/16/2016 09:34	
2-Fluorobiphenyl (S)	**63**		**%**	**1**	34-140		1/16/2016 09:34	
p-Terphenyl-d14 (S)	**63**		**%**	**1**	54-138		1/16/2016 09:34	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	1/15/2016 16:53	M
Ethylbenzene	**0.38**	**U**	**ug/L**	**1**	1.0	0.38	1/15/2016 16:53	M
Methyl tert-butyl Ether (MTBE)	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	1/15/2016 16:53	M
Toluene	**0.49**	**U**	**ug/L**	**1**	1.0	0.49	1/15/2016 16:53	M
Xylene (Total)	**1.1**	**U**	**ug/L**	**1**	2.0	1.1	1/15/2016 16:53	M
1,2-Dichloroethane-d4 (S)	**113**		**%**	**1**	77-125		1/15/2016 16:53	
Toluene-d8 (S)	**119**		**%**	**1**	80-121		1/15/2016 16:53	
Bromofluorobenzene (S)	**104**		**%**	**1**	80-129		1/15/2016 16:53	

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ANALYTICAL RESULTS

Workorder: M1600170 Shell-First Coast Energy #1801

Lab ID: **M1600170016** Date Received: 01/13/16 15:00 Matrix: Water

Sample ID: **MW-19R** Date Collected: 01/13/16 13:44

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**0.041**	**U**	**ug/L**	**1**	0.20	0.041	1/16/2016 10:01	M
2-Methylnaphthalene	**0.044**	**U**	**ug/L**	**1**	0.20	0.044	1/16/2016 10:01	M
Acenaphthene	**0.048**	**U**	**ug/L**	**1**	0.20	0.048	1/16/2016 10:01	M
Acenaphthylene	**0.030**	**U**	**ug/L**	**1**	0.20	0.030	1/16/2016 10:01	M
Anthracene	**0.022**	**U**	**ug/L**	**1**	0.20	0.022	1/16/2016 10:01	M
Benzo[a]anthracene	**0.026**	**U**	**ug/L**	**1**	0.20	0.026	1/16/2016 10:01	M
Benzo[a]pyrene	**0.032**	**U**	**ug/L**	**1**	0.20	0.032	1/16/2016 10:01	M
Benzo[b]fluoranthene	**0.030**	**U**	**ug/L**	**1**	0.10	0.030	1/16/2016 10:01	M
Benzo[g,h,i]perylene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 10:01	M
Benzo[k]fluoranthene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 10:01	M
Chrysene	**0.027**	**U**	**ug/L**	**1**	0.20	0.027	1/16/2016 10:01	M
Dibenzo[a,h]anthracene	**0.029**	**U**	**ug/L**	**1**	0.20	0.029	1/16/2016 10:01	M
Fluoranthene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 10:01	M
Fluorene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 10:01	M
Indeno(1,2,3-cd)pyrene	**0.034**	**U**	**ug/L**	**1**	0.20	0.034	1/16/2016 10:01	M
Naphthalene	**0.050**	**U**	**ug/L**	**1**	0.20	0.050	1/16/2016 10:01	M
Phenanthrene	**0.051**	**U**	**ug/L**	**1**	0.20	0.051	1/16/2016 10:01	M
Pyrene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 10:01	M
Nitrobenzene-d5 (S)	**95**		**%**	**1**	32-147		1/16/2016 10:01	
2-Fluorobiphenyl (S)	**84**		**%**	**1**	34-140		1/16/2016 10:01	
p-Terphenyl-d14 (S)	**84**		**%**	**1**	54-138		1/16/2016 10:01	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	1/15/2016 17:24	M
Ethylbenzene	**0.38**	**U**	**ug/L**	**1**	1.0	0.38	1/15/2016 17:24	M
Methyl tert-butyl Ether (MTBE)	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	1/15/2016 17:24	M
Toluene	**0.49**	**U**	**ug/L**	**1**	1.0	0.49	1/15/2016 17:24	M
Xylene (Total)	**1.1**	**U**	**ug/L**	**1**	2.0	1.1	1/15/2016 17:24	M
1,2-Dichloroethane-d4 (S)	**114**		**%**	**1**	77-125		1/15/2016 17:24	
Toluene-d8 (S)	**118**		**%**	**1**	80-121		1/15/2016 17:24	
Bromofluorobenzene (S)	**103**		**%**	**1**	80-129		1/15/2016 17:24	

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ANALYTICAL RESULTS

Workorder: M1600170 Shell-First Coast Energy #1801

Lab ID: **M1600170017** Date Received: 01/13/16 15:00 Matrix: Water

Sample ID: **MW-36D** Date Collected: 01/13/16 14:28

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**0.041**	**U**	**ug/L**	**1**	0.20	0.041	1/16/2016 10:29	M
2-Methylnaphthalene	**0.044**	**U**	**ug/L**	**1**	0.20	0.044	1/16/2016 10:29	M
Acenaphthene	**0.048**	**U**	**ug/L**	**1**	0.20	0.048	1/16/2016 10:29	M
Acenaphthylene	**0.030**	**U**	**ug/L**	**1**	0.20	0.030	1/16/2016 10:29	M
Anthracene	**0.022**	**U**	**ug/L**	**1**	0.20	0.022	1/16/2016 10:29	M
Benzo[a]anthracene	**0.037**	**I**	**ug/L**	**1**	0.20	0.026	1/16/2016 10:29	M
Benzo[a]pyrene	**0.053**	**I**	**ug/L**	**1**	0.20	0.032	1/16/2016 10:29	M
Benzo[b]fluoranthene	**0.030**	**U**	**ug/L**	**1**	0.10	0.030	1/16/2016 10:29	M
Benzo[g,h,i]perylene	**0.054**	**I**	**ug/L**	**1**	0.20	0.033	1/16/2016 10:29	M
Benzo[k]fluoranthene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 10:29	M
Chrysene	**0.035**	**I**	**ug/L**	**1**	0.20	0.027	1/16/2016 10:29	M
Dibenzo[a,h]anthracene	**0.029**	**U**	**ug/L**	**1**	0.20	0.029	1/16/2016 10:29	M
Fluoranthene	**0.12**	**I**	**ug/L**	**1**	0.20	0.036	1/16/2016 10:29	M
Fluorene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 10:29	M
Indeno(1,2,3-cd)pyrene	**0.058**	**I**	**ug/L**	**1**	0.20	0.034	1/16/2016 10:29	M
Naphthalene	**0.050**	**U**	**ug/L**	**1**	0.20	0.050	1/16/2016 10:29	M
Phenanthrene	**0.051**	**U**	**ug/L**	**1**	0.20	0.051	1/16/2016 10:29	M
Pyrene	**0.090**	**I**	**ug/L**	**1**	0.20	0.036	1/16/2016 10:29	M
Nitrobenzene-d5 (S)	**143**		**%**	**1**	32-147		1/16/2016 10:29	
2-Fluorobiphenyl (S)	**117**		**%**	**1**	34-140		1/16/2016 10:29	
p-Terphenyl-d14 (S)	**126**		**%**	**1**	54-138		1/16/2016 10:29	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	1/15/2016 17:54	M
Ethylbenzene	**0.38**	**U**	**ug/L**	**1**	1.0	0.38	1/15/2016 17:54	M
Methyl tert-butyl Ether (MTBE)	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	1/15/2016 17:54	M
Toluene	**0.49**	**U**	**ug/L**	**1**	1.0	0.49	1/15/2016 17:54	M
Xylene (Total)	**1.1**	**U**	**ug/L**	**1**	2.0	1.1	1/15/2016 17:54	M
1,2-Dichloroethane-d4 (S)	**115**		**%**	**1**	77-125		1/15/2016 17:54	
Toluene-d8 (S)	**121**		**%**	**1**	80-121		1/15/2016 17:54	
Bromofluorobenzene (S)	**102**		**%**	**1**	80-129		1/15/2016 17:54	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: M1600170 Shell-First Coast Energy #1801

PARAMETER QUALIFIERS

U 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.

[1] Surrogate Diluted Out.

LAB QUALIFIERS

M DOH Certification #E82535(AEL-M)(FL NELAC Certification)

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QUALITY CONTROL DATA

Workorder: M1600170 Shell-First Coast Energy #1801

QC Batch: EXTm/1032 Analysis Method: SW-846 8270C (SIM)

QC Batch Method: SW-846 3510C Prepared: 01/14/2016 15:00

Associated Lab Samples: M1600170001, M1600170002, M1600170003, M1600170004, M1600170005, M1600170006, M1600170007,

METHOD BLANK: 1948954

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
Naphthalene	ug/L	0.050	0.050	U
2-Methylnaphthalene	ug/L	0.044	0.044	U
1-Methylnaphthalene	ug/L	0.041	0.041	U
Acenaphthylene	ug/L	0.030	0.030	U
Acenaphthene	ug/L	0.048	0.048	U
Fluorene	ug/L	0.036	0.036	U
Phenanthrene	ug/L	0.051	0.051	U
Anthracene	ug/L	0.022	0.022	U
Fluoranthene	ug/L	0.036	0.036	U
Pyrene	ug/L	0.036	0.036	U
Benzo[a]anthracene	ug/L	0.026	0.026	U
Chrysene	ug/L	0.027	0.027	U
Benzo[b]fluoranthene	ug/L	0.030	0.030	U
Benzo[k]fluoranthene	ug/L	0.033	0.033	U
Benzo[a]pyrene	ug/L	0.032	0.032	U
Indeno(1,2,3-cd)pyrene	ug/L	0.034	0.034	U
Dibenzo[a,h]anthracene	ug/L	0.029	0.029	U
Benzo[g,h,i]perylene	ug/L	0.033	0.033	U
Nitrobenzene-d5 (S)	%	93	32-147	
2-Fluorobiphenyl (S)	%	80	34-140	
p-Terphenyl-d14 (S)	%	84	54-138	

LABORATORY CONTROL SAMPLE: 1948955

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES						
Naphthalene	ug/L	5	5.0	100	43-114	
2-Methylnaphthalene	ug/L	5	5.3	107	39-114	
1-Methylnaphthalene	ug/L	5	5.5	109	41-115	
Acenaphthylene	ug/L	5	4.6	93	35-121	
Acenaphthene	ug/L	5	4.6	91	48-114	
Fluorene	ug/L	5	5.5	111	50-118	
Phenanthrene	ug/L	5	5.4	108	53-115	
Anthracene	ug/L	5	5.1	103	53-119	
Fluoranthene	ug/L	5	5.0	101	58-120	

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QUALITY CONTROL DATA

Workorder: M1600170 Shell-First Coast Energy #1801

LABORATORY CONTROL SAMPLE: 1948955

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/L	5	5.0	100	53-121	
Benzo[a]anthracene	ug/L	5	4.8	96	59-120	
Chrysene	ug/L	5	4.8	95	57-120	
Benzo[b]fluoranthene	ug/L	5	5.1	103	53-126	
Benzo[k]fluoranthene	ug/L	5	4.8	96	54-125	
Benzo[a]pyrene	ug/L	5	4.4	89	53-120	
Indeno(1,2,3-cd)pyrene	ug/L	5	4.9	98	48-130	
Dibenzo[a,h]anthracene	ug/L	5	5.7	113	44-131	
Benzo[g,h,i]perylene	ug/L	5	4.5	90	44-128	
Nitrobenzene-d5 (S)	%			80	32-147	
2-Fluorobiphenyl (S)	%			75	34-140	
p-Terphenyl-d14 (S)	%			79	54-138	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1948956 1948957 Original: M1600123005

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES											
Naphthalene	ug/L	0	5	4.7	4.9	94	99	43-114	5	30	
2-Methylnaphthalene	ug/L	0	5	5.3	5.4	106	108	39-114	2	30	
1-Methylnaphthalene	ug/L	0	5	5.2	5.4	104	107	41-115	3	30	
Acenaphthylene	ug/L	0	5	4.2	4.4	84	88	35-121	5	30	
Acenaphthene	ug/L	0	5	4.3	4.2	85	85	48-114	0	30	
Fluorene	ug/L	0	5	5.2	5.2	104	104	50-118	0	30	
Phenanthrene	ug/L	0	5	4.9	4.9	97	97	53-115	0	30	
Anthracene	ug/L	0	5	4.6	5.0	92	100	53-119	8	30	
Fluoranthene	ug/L	0	5	4.6	4.7	91	93	58-120	2	30	
Pyrene	ug/L	0	5	4.4	4.6	89	93	53-121	5	30	
Benzo[a]anthracene	ug/L	0	5	4.3	4.5	86	90	59-120	4	30	
Chrysene	ug/L	0	5	4.4	4.7	88	94	57-120	6	30	
Benzo[b]fluoranthene	ug/L	0	5	4.3	4.4	87	88	53-126	2	30	
Benzo[k]fluoranthene	ug/L	0	5	4.3	4.6	86	93	54-125	8	30	
Benzo[a]pyrene	ug/L	0	5	3.9	4.1	78	81	53-120	4	30	
Indeno(1,2,3-cd)pyrene	ug/L	0	5	4.4	4.6	88	92	48-130	4	30	
Dibenzo[a,h]anthracene	ug/L	0	5	5.1	5.3	101	105	44-131	4	30	
Benzo[g,h,i]perylene	ug/L	0	5	4.0	4.1	80	82	44-128	3	30	
Nitrobenzene-d5 (S)	%	73				73	72	32-147	1		
2-Fluorobiphenyl (S)	%	63				67	66	34-140	2		
p-Terphenyl-d14 (S)	%	63				69	70	54-138	0		

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QUALITY CONTROL DATA

Workorder: M1600170 Shell-First Coast Energy #1801

QC Batch: MSVm/1009 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B Prepared: 01/14/2016 12:55

Associated Lab Samples: M1600170001, M1600170002, M1600170003, M1600170004, M1600170005, M1600170006, M1600170007,

METHOD BLANK: 1949657

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Methyl tert-butyl Ether (MTBE)	ug/L	0.24	0.24	U
Benzene	ug/L	0.36	0.36	U
Toluene	ug/L	0.49	0.49	U
Ethylbenzene	ug/L	0.38	0.38	U
Xylene (Total)	ug/L	1.1	1.1	U
1,2-Dichloroethane-d4 (S)	%	111	77-125	
Toluene-d8 (S)	%	121	80-121	
Bromofluorobenzene (S)	%	106	80-129	

LABORATORY CONTROL SAMPLE: 1949658

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
VOLATILES						
Methyl tert-butyl Ether (MTBE)	ug/L	20	24	120	70-130	
Benzene	ug/L	20	19	94	70-130	
Toluene	ug/L	20	21	104	70-130	
Ethylbenzene	ug/L	20	18	90	70-130	
Xylene (Total)	ug/L	60	55	92	70-130	
1,2-Dichloroethane-d4 (S)	%			113	70-130	
Toluene-d8 (S)	%			106	70-130	
Bromofluorobenzene (S)	%			107	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1949659 1949660 Original: M1600170002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES											
Methyl tert-butyl Ether (MTBE)	ug/L	0	20	25	25	127	125	70-130	2	30	
Benzene	ug/L	0	20	24	24	119	121	70-130	2	30	
Toluene	ug/L	0	20	24	24	121	121	70-130	0	30	

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QUALITY CONTROL DATA

Workorder: M1600170 Shell-First Coast Energy #1801

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1949659 1949660 Original: M1600170002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Ethylbenzene	ug/L	0	20	21	22	105	109	70-130	4	30	
Xylene (Total)	ug/L	0	60	63	65	105	109	70-130	3	30	
1,2-Dichloroethane-d4 (S)	%	117				111	105	70-130	5	30	
Toluene-d8 (S)	%	120				110	104	70-130	6	30	
Bromofluorobenzene (S)	%	98				107	105	70-130	2	30	

QC Batch: MSVm/1009 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B Prepared: 01/14/2016 13:56

Associated Lab Samples: M1600170001, M1600170002, M1600170003, M1600170004, M1600170005, M1600170006, M1600170007,

METHOD BLANK: 1949657

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Methyl tert-butyl Ether (MTBE)	ug/L	0.24	0.24	U
Benzene	ug/L	0.36	0.36	U
Toluene	ug/L	0.49	0.49	U
Ethylbenzene	ug/L	0.38	0.38	U
Xylene (Total)	ug/L	1.1	1.1	U
1,2-Dichloroethane-d4 (S)	%	111	77-125	
Toluene-d8 (S)	%	121	80-121	
Bromofluorobenzene (S)	%	106	80-129	

LABORATORY CONTROL SAMPLE: 1949658

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
VOLATILES						
Methyl tert-butyl Ether (MTBE)	ug/L	20	24	120	70-130	
Benzene	ug/L	20	19	94	70-130	
Toluene	ug/L	20	21	104	70-130	
Ethylbenzene	ug/L	20	18	90	70-130	
Xylene (Total)	ug/L	60	55	92	70-130	
1,2-Dichloroethane-d4 (S)	%			113	70-130	
Toluene-d8 (S)	%			106	70-130	
Bromofluorobenzene (S)	%			107	70-130	

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QUALITY CONTROL DATA

Workorder: M1600170 Shell-First Coast Energy #1801

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1949659 1949660 Original: M1600170002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES											
Methyl tert-butyl Ether (MTBE)	ug/L	0	20	25	25	127	125	70-130	2	30	
Benzene	ug/L	0	20	24	24	119	121	70-130	2	30	
Toluene	ug/L	0	20	24	24	121	121	70-130	0	30	
Ethylbenzene	ug/L	0	20	21	22	105	109	70-130	4	30	
Xylene (Total)	ug/L	0	60	63	65	105	109	70-130	3	30	
1,2-Dichloroethane-d4 (S)	%	117				111	105	70-130	5	30	
Toluene-d8 (S)	%	120				110	104	70-130	6	30	
Bromofluorobenzene (S)	%	98				107	105	70-130	2	30	

QC Batch: MSVm/1009 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B Prepared: 01/15/2016 01:09

Associated Lab Samples: M1600170001, M1600170002, M1600170003, M1600170004, M1600170005, M1600170006, M1600170007,

METHOD BLANK: 1949657

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Methyl tert-butyl Ether (MTBE)	ug/L	0.24	0.24	U
Benzene	ug/L	0.36	0.36	U
Toluene	ug/L	0.49	0.49	U
Ethylbenzene	ug/L	0.38	0.38	U
Xylene (Total)	ug/L	1.1	1.1	U
1,2-Dichloroethane-d4 (S)	%	111	77-125	
Toluene-d8 (S)	%	121	80-121	
Bromofluorobenzene (S)	%	106	80-129	

LABORATORY CONTROL SAMPLE: 1949658

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
VOLATILES						
Methyl tert-butyl Ether (MTBE)	ug/L	20	24	120	70-130	

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QUALITY CONTROL DATA

Workorder: M1600170 Shell-First Coast Energy #1801

LABORATORY CONTROL SAMPLE: 1949658

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	19	94	70-130	
Toluene	ug/L	20	21	104	70-130	
Ethylbenzene	ug/L	20	18	90	70-130	
Xylene (Total)	ug/L	60	55	92	70-130	
1,2-Dichloroethane-d4 (S)	%			113	70-130	
Toluene-d8 (S)	%			106	70-130	
Bromofluorobenzene (S)	%			107	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1949659 1949660 Original: M1600170002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES											
Methyl tert-butyl Ether (MTBE)	ug/L	0	20	25	25	127	125	70-130	2	30	
Benzene	ug/L	0	20	24	24	119	121	70-130	2	30	
Toluene	ug/L	0	20	24	24	121	121	70-130	0	30	
Ethylbenzene	ug/L	0	20	21	22	105	109	70-130	4	30	
Xylene (Total)	ug/L	0	60	63	65	105	109	70-130	3	30	
1,2-Dichloroethane-d4 (S)	%	117				111	105	70-130	5	30	
Toluene-d8 (S)	%	120				110	104	70-130	6	30	
Bromofluorobenzene (S)	%	98				107	105	70-130	2	30	

QC Batch: MSVm/1009 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B Prepared: 01/15/2016 01:39

Associated Lab Samples: M1600170001, M1600170002, M1600170003, M1600170004, M1600170005, M1600170006, M1600170007,

METHOD BLANK: 1949657

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Methyl tert-butyl Ether (MTBE)	ug/L	0.24	0.24	U
Benzene	ug/L	0.36	0.36	U
Toluene	ug/L	0.49	0.49	U
Ethylbenzene	ug/L	0.38	0.38	U
Xylene (Total)	ug/L	1.1	1.1	U
1,2-Dichloroethane-d4 (S)	%	111	77-125	
Toluene-d8 (S)	%	121	80-121	

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QUALITY CONTROL DATA

Workorder: M1600170 Shell-First Coast Energy #1801

METHOD BLANK: 1949657

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Bromofluorobenzene (S)	%	106	80-129	

LABORATORY CONTROL SAMPLE: 1949658

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
VOLATILES						
Methyl tert-butyl Ether (MTBE)	ug/L	20	24	120	70-130	
Benzene	ug/L	20	19	94	70-130	
Toluene	ug/L	20	21	104	70-130	
Ethylbenzene	ug/L	20	18	90	70-130	
Xylene (Total)	ug/L	60	55	92	70-130	
1,2-Dichloroethane-d4 (S)	%			113	70-130	
Toluene-d8 (S)	%			106	70-130	
Bromofluorobenzene (S)	%			107	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1949659 1949660 Original: M1600170002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES											
Methyl tert-butyl Ether (MTBE)	ug/L	0	20	25	25	127	125	70-130	2	30	
Benzene	ug/L	0	20	24	24	119	121	70-130	2	30	
Toluene	ug/L	0	20	24	24	121	121	70-130	0	30	
Ethylbenzene	ug/L	0	20	21	22	105	109	70-130	4	30	
Xylene (Total)	ug/L	0	60	63	65	105	109	70-130	3	30	
1,2-Dichloroethane-d4 (S)	%	117				111	105	70-130	5	30	
Toluene-d8 (S)	%	120				110	104	70-130	6	30	
Bromofluorobenzene (S)	%	98				107	105	70-130	2	30	

QC Batch: MSVm/1011 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B Prepared: 01/15/2016 13:17

Associated Lab Samples: M1600170012, M1600170013, M1600170014, M1600170015, M1600170016, M1600170017

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QUALITY CONTROL DATA

Workorder: M1600170 Shell-First Coast Energy #1801

METHOD BLANK: 1950716

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Methyl tert-butyl Ether (MTBE)	ug/L	0.24	0.24	U
Benzene	ug/L	0.36	0.36	U
Toluene	ug/L	0.49	0.49	U
Ethylbenzene	ug/L	0.38	0.38	U
Xylene (Total)	ug/L	1.1	1.1	U
1,2-Dichloroethane-d4 (S)	%	120	77-125	
Toluene-d8 (S)	%	120	80-121	
Bromofluorobenzene (S)	%	104	80-129	

LABORATORY CONTROL SAMPLE: 1950717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
VOLATILES						
Methyl tert-butyl Ether (MTBE)	ug/L	20	22	110	70-130	
Benzene	ug/L	20	20	98	70-130	
Toluene	ug/L	20	20	101	70-130	
Ethylbenzene	ug/L	20	17	83	70-130	
Xylene (Total)	ug/L	60	53	88	70-130	
1,2-Dichloroethane-d4 (S)	%			111	70-130	
Toluene-d8 (S)	%			108	70-130	
Bromofluorobenzene (S)	%			108	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1950718 1950719 Original: M1600181002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES											
Methyl tert-butyl Ether (MTBE)	ug/L	0	20	3.8	8.5	19	43	70-130	76	30	J4
Benzene	ug/L	0	20	4.2	8.6	21	43	70-130	69	30	J4
Toluene	ug/L	0	20	4.5	9.9	23	50	70-130	74	30	J4
Ethylbenzene	ug/L	0	20	3.4	7.7	17	39	70-130	79	30	J4
Xylene (Total)	ug/L	0	60	10	23	17	39	70-130	79	30	
1,2-Dichloroethane-d4 (S)	%	111				111	100	70-130	11	30	
Toluene-d8 (S)	%	115				121	115	70-130	5	30	
Bromofluorobenzene (S)	%	100				101	100	70-130	1	30	

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QUALITY CONTROL DATA

Workorder: M1600170 Shell-First Coast Energy #1801

QC Batch: MSVm/1011 Analysis Method: SW-846 8260B
QC Batch Method: SW-846 5030B Prepared: 01/15/2016 14:19
Associated Lab Samples: M1600170012, M1600170013, M1600170014, M1600170015, M1600170016, M1600170017

METHOD BLANK: 1950716

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Methyl tert-butyl Ether (MTBE)	ug/L	0.24	0.24	U
Benzene	ug/L	0.36	0.36	U
Toluene	ug/L	0.49	0.49	U
Ethylbenzene	ug/L	0.38	0.38	U
Xylene (Total)	ug/L	1.1	1.1	U
1,2-Dichloroethane-d4 (S)	%	120	77-125	
Toluene-d8 (S)	%	120	80-121	
Bromofluorobenzene (S)	%	104	80-129	

LABORATORY CONTROL SAMPLE: 1950717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
VOLATILES						
Methyl tert-butyl Ether (MTBE)	ug/L	20	22	110	70-130	
Benzene	ug/L	20	20	98	70-130	
Toluene	ug/L	20	20	101	70-130	
Ethylbenzene	ug/L	20	17	83	70-130	
Xylene (Total)	ug/L	60	53	88	70-130	
1,2-Dichloroethane-d4 (S)	%			111	70-130	
Toluene-d8 (S)	%			108	70-130	
Bromofluorobenzene (S)	%			108	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1950718 1950719 Original: M1600181002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES											
Methyl tert-butyl Ether (MTBE)	ug/L	0	20	3.8	8.5	19	43	70-130	76	30	J4

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QUALITY CONTROL DATA

Workorder: M1600170 Shell-First Coast Energy #1801

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1950718 1950719 Original: M1600181002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Benzene	ug/L	0	20	4.2	8.6	21	43	70-130	69	30	J4
Toluene	ug/L	0	20	4.5	9.9	23	50	70-130	74	30	J4
Ethylbenzene	ug/L	0	20	3.4	7.7	17	39	70-130	79	30	J4
Xylene (Total)	ug/L	0	60	10	23	17	39	70-130	79	30	
1,2-Dichloroethane-d4 (S)	%	111				111	100	70-130	11	30	
Toluene-d8 (S)	%	115				121	115	70-130	5	30	
Bromofluorobenzene (S)	%	100				101	100	70-130	1	30	

QC Batch: MSVm/1011 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B Prepared: 01/15/2016 23:33

Associated Lab Samples: M1600170012, M1600170013, M1600170014, M1600170015, M1600170016, M1600170017

METHOD BLANK: 1950716

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Methyl tert-butyl Ether (MTBE)	ug/L	0.24	0.24	U
Benzene	ug/L	0.36	0.36	U
Toluene	ug/L	0.49	0.49	U
Ethylbenzene	ug/L	0.38	0.38	U
Xylene (Total)	ug/L	1.1	1.1	U
1,2-Dichloroethane-d4 (S)	%	120	77-125	
Toluene-d8 (S)	%	120	80-121	
Bromofluorobenzene (S)	%	104	80-129	

LABORATORY CONTROL SAMPLE: 1950717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
VOLATILES						
Methyl tert-butyl Ether (MTBE)	ug/L	20	22	110	70-130	
Benzene	ug/L	20	20	98	70-130	
Toluene	ug/L	20	20	101	70-130	
Ethylbenzene	ug/L	20	17	83	70-130	
Xylene (Total)	ug/L	60	53	88	70-130	
1,2-Dichloroethane-d4 (S)	%			111	70-130	
Toluene-d8 (S)	%			108	70-130	

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QUALITY CONTROL DATA

Workorder: M1600170 Shell-First Coast Energy #1801

LABORATORY CONTROL SAMPLE: 1950717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromofluorobenzene (S)	%			108	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1950718 1950719 Original: M1600181002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES											
Methyl tert-butyl Ether (MTBE)	ug/L	0	20	3.8	8.5	19	43	70-130	76	30	J4
Benzene	ug/L	0	20	4.2	8.6	21	43	70-130	69	30	J4
Toluene	ug/L	0	20	4.5	9.9	23	50	70-130	74	30	J4
Ethylbenzene	ug/L	0	20	3.4	7.7	17	39	70-130	79	30	J4
Xylene (Total)	ug/L	0	60	10	23	17	39	70-130	79	30	
1,2-Dichloroethane-d4 (S)	%	111				111	100	70-130	11	30	
Toluene-d8 (S)	%	115				121	115	70-130	5	30	
Bromofluorobenzene (S)	%	100				101	100	70-130	1	30	

QC Batch: MSVm/1011 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B Prepared: 01/16/2016 00:04

Associated Lab Samples: M1600170012, M1600170013, M1600170014, M1600170015, M1600170016, M1600170017

METHOD BLANK: 1950716

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Methyl tert-butyl Ether (MTBE)	ug/L	0.24	0.24	U
Benzene	ug/L	0.36	0.36	U
Toluene	ug/L	0.49	0.49	U
Ethylbenzene	ug/L	0.38	0.38	U
Xylene (Total)	ug/L	1.1	1.1	U
1,2-Dichloroethane-d4 (S)	%	120	77-125	
Toluene-d8 (S)	%	120	80-121	
Bromofluorobenzene (S)	%	104	80-129	

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QUALITY CONTROL DATA

Workorder: M1600170 Shell-First Coast Energy #1801

LABORATORY CONTROL SAMPLE: 1950717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
VOLATILES						
Methyl tert-butyl Ether (MTBE)	ug/L	20	22	110	70-130	
Benzene	ug/L	20	20	98	70-130	
Toluene	ug/L	20	20	101	70-130	
Ethylbenzene	ug/L	20	17	83	70-130	
Xylene (Total)	ug/L	60	53	88	70-130	
1,2-Dichloroethane-d4 (S)	%			111	70-130	
Toluene-d8 (S)	%			108	70-130	
Bromofluorobenzene (S)	%			108	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1950718 1950719 Original: M1600181002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES											
Methyl tert-butyl Ether (MTBE)	ug/L	0	20	3.8	8.5	19	43	70-130	76	30	J4
Benzene	ug/L	0	20	4.2	8.6	21	43	70-130	69	30	J4
Toluene	ug/L	0	20	4.5	9.9	23	50	70-130	74	30	J4
Ethylbenzene	ug/L	0	20	3.4	7.7	17	39	70-130	79	30	J4
Xylene (Total)	ug/L	0	60	10	23	17	39	70-130	79	30	
1,2-Dichloroethane-d4 (S)	%	111				111	100	70-130	11	30	
Toluene-d8 (S)	%	115				121	115	70-130	5	30	
Bromofluorobenzene (S)	%	100				101	100	70-130	1	30	

QUALITY CONTROL DATA QUALIFIERS

Workorder: M1600170 Shell-First Coast Energy #1801

QUALITY CONTROL PARAMETER QUALIFIERS

U 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.

J4 Estimated Result

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: M1600170 Shell-First Coast Energy #1801

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
M1600170001	OW-5	SW-846 3510C	EXTm/1032	SW-846 8270C (SIM)	MSSm/1015
M1600170002	OW-6	SW-846 3510C	EXTm/1032	SW-846 8270C (SIM)	MSSm/1015
M1600170003	OW-7	SW-846 3510C	EXTm/1032	SW-846 8270C (SIM)	MSSm/1015
M1600170004	OW-8	SW-846 3510C	EXTm/1032	SW-846 8270C (SIM)	MSSm/1015
M1600170005	OW-10	SW-846 3510C	EXTm/1032	SW-846 8270C (SIM)	MSSm/1015
M1600170006	MW-22DR	SW-846 3510C	EXTm/1032	SW-846 8270C (SIM)	MSSm/1015
M1600170007	MW-17R	SW-846 3510C	EXTm/1032	SW-846 8270C (SIM)	MSSm/1015
M1600170008	MW-40	SW-846 3510C	EXTm/1032	SW-846 8270C (SIM)	MSSm/1015
M1600170009	MW-20	SW-846 3510C	EXTm/1032	SW-846 8270C (SIM)	MSSm/1015
M1600170010	MW-18R	SW-846 3510C	EXTm/1032	SW-846 8270C (SIM)	MSSm/1015
M1600170011	MW-41	SW-846 3510C	EXTm/1032	SW-846 8270C (SIM)	MSSm/1015
M1600170012	MW-21D	SW-846 3510C	EXTm/1032	SW-846 8270C (SIM)	MSSm/1015
M1600170013	OW-12	SW-846 3510C	EXTm/1032	SW-846 8270C (SIM)	MSSm/1015
M1600170014	MW-29D	SW-846 3510C	EXTm/1032	SW-846 8270C (SIM)	MSSm/1015
M1600170015	MW-39	SW-846 3510C	EXTm/1032	SW-846 8270C (SIM)	MSSm/1015
M1600170016	MW-19R	SW-846 3510C	EXTm/1032	SW-846 8270C (SIM)	MSSm/1015
M1600170017	MW-36D	SW-846 3510C	EXTm/1032	SW-846 8270C (SIM)	MSSm/1015
M1600170001	OW-5	SW-846 5030B	MSVm/1009	SW-846 8260B	MSVm/1010
M1600170002	OW-6	SW-846 5030B	MSVm/1009	SW-846 8260B	MSVm/1010
M1600170003	OW-7	SW-846 5030B	MSVm/1009	SW-846 8260B	MSVm/1010
M1600170004	OW-8	SW-846 5030B	MSVm/1009	SW-846 8260B	MSVm/1010
M1600170005	OW-10	SW-846 5030B	MSVm/1009	SW-846 8260B	MSVm/1010
M1600170006	MW-22DR	SW-846 5030B	MSVm/1009	SW-846 8260B	MSVm/1010
M1600170007	MW-17R	SW-846 5030B	MSVm/1009	SW-846 8260B	MSVm/1010
M1600170008	MW-40	SW-846 5030B	MSVm/1009	SW-846 8260B	MSVm/1010
M1600170009	MW-20	SW-846 5030B	MSVm/1009	SW-846 8260B	MSVm/1010
M1600170010	MW-18R	SW-846 5030B	MSVm/1009	SW-846 8260B	MSVm/1010
M1600170011	MW-41	SW-846 5030B	MSVm/1009	SW-846 8260B	MSVm/1010
M1600170012	MW-21D	SW-846 5030B	MSVm/1011	SW-846 8260B	MSVm/1012
M1600170013	OW-12	SW-846 5030B	MSVm/1011	SW-846 8260B	MSVm/1012
M1600170014	MW-29D	SW-846 5030B	MSVm/1011	SW-846 8260B	MSVm/1012
M1600170015	MW-39	SW-846 5030B	MSVm/1011	SW-846 8260B	MSVm/1012

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: M1600170 Shell-First Coast Energy #1801

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
M1600170016	MW-19R	SW-846 5030B	MSVm/1011	SW-846 8260B	MSVm/1012
M1600170017	MW-36D	SW-846 5030B	MSVm/1011	SW-846 8260B	MSVm/1012

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☐ **Miramar:** 10200 USA Today Way • Miramar, FL 33025
☐ **Tallahassee:** 2639 North Monroe Street, Suite D • Tall
☐ **Tampa:** 9610 Princess Palm Ave. • Tampa, FL 33619 • 8

.1597

M1600170

Client Name: Creative Environmental	Project Name: Shell-First Coast Energy #1801	
Address: 700 Desoto Ave.	P.O. Number or Project Number: ATC-5022A	
Brooksville, Fl	FDEP Facility No: 8731807	
Phone: 352-796-3374	Project Address: 3905. Powerline Rd.	
FAX: 352-796-2449	Deerfield Beach Fl	
Contact: Erik Danker	Special Instructions:	
Sampled By: Craig & Colton		
Turn Around Time: ☑STANDARD ☐RUSH		
Page: 1 of 2	☑ADaPT ☐EQuIS ☐Other	

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	ANALYSIS REQUIRED: BOTTLE SIZE & TYPE: 40ml CG	1-L AG	40ml CG	LABORATORY I.D. NUMBER
								8260 BTEX-MTBE	PAHS 8270	8260 BTEX-MTBE	
								H	-	-	
OW-5		G	1-13-16	08:59	GW	4		X	X	X	001
OW-6				09:40							002
OW-7				10:25							003
OW-8				11:19							004
OW-10				12:02							005
MW-22DR				13:23							006
MW-17R				14:03							007
MW-40				10:36							008
MW-20				09:00							009
MW-18R				09:30							010

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge **Preservation Code:** I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☑Yes ☐No ☑Temp taken from sample ☐Temp from blank ☐Where required, pH checked Temperature when received 5.1 (in degrees celcius)

DCN: AD-051 Form last revised 04/30/2015 Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1		1-13-16	1500		1-13-16	1500
2						
3						
4						

FOR DRINKING WATER USE:

PWS ID:

Contact Person: Phone:

Supplier of Water:

Site-Address:

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☐ **Miramar:** 10200 USA Today Way • Miramar, FL 33025 • 954.889.2288 • Fax 954.889.2281
☐ **Tallahassee:** 2639 North Monroe Street, Suite D • Tallahassee, FL 32303 • 850.219.6274 • Fax 850.219.6275
☐ **Tampa:** 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9616 • Fax 813.630.4327

Client Name: Creative Environmental
Address: 700 Desoto Ave
Brooksville, FL 34601
Phone: 352-796-3374
FAX: 352-796-2449
Contact: Erik Dankert
Sampled By: Capic & Colton
Turn Around Time: ☑ STANDARD ☐ RUSH
Page: 2 of 2

Project Name: Shell-First Coast Energy #1801
P.O. Number or Project Number: ATC-5022A
FDEP Facility No.: 8731807
Project Address: 3905 Powerline Rd.
Deerfield Beach, FL
Special Instructions:
☑ ADaPT ☐ EQuIS ☐ Other

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	ANALYSIS REQUIRED: BOTTLE SIZE & TYPE	4oz G	1L AG	4oz G							LABORATORY I.D. NUMBER
									8260B BTEX-MTBE	827v PAHs	8260B BTEX MTBE							
MW-41		G	1-13-16	10:07	GW	4	H		X	X	X							D11
MW-21D				11:21														D12
OW-12				11:56														D13
MW-29D				12:26														D14
MW-39				13:12														D15
MW-19R				13:44														D16
MW-36D		↓	↓	14:28	↓	↓			↓	↓	↓							D17

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge
Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☑ Yes ☐ No ☑ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked
Temperature when received 4.0 (in degrees celcius)
DCN: AD-051 Form last revised 04/30/2015
Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	CJ-FL	1-13-16	15:00		1-13-16	1500
2						
3						
4						

FOR DRINKING WATER USE:
PWS ID:
Contact Person: Phone:
Supplier of Water:
Site-Address:

Wednesday, January 20, 2016 11:57:53 AM
Page 36 of 36

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January 20, 2016

Eric Dankrel
Creative Environmental Solutions, Inc.
700 Desoto Ave
Brooksville, FL 34601

RE: Workorder: M1600181 Shell-First Coast #1801 Energy

Dear Eric Dankrel:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday, January 14, 2016. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Enclosures

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SAMPLE SUMMARY

Workorder: M1600181 Shell-First Coast #1801 Energy

Lab ID	Sample ID	Matrix	Date Collected	Date Received
M1600181001	OW-17	Water	1/14/2016 10:37	1/14/2016 11:22
M1600181002	OW-15	Water	1/14/2016 10:09	1/14/2016 11:22
M1600181003	MW-24	Water	1/14/2016 09:16	1/14/2016 11:22
M1600181004	MW-25	Water	1/14/2016 11:04	1/14/2016 11:22
M1600181005	MW-27I	Water	1/14/2016 09:25	1/14/2016 13:29
M1600181006	MW-30D	Water	1/14/2016 08:43	1/14/2016 11:22
M1600181007	MW-31D	Water	1/14/2016 08:38	1/14/2016 11:22
M1600181008	MW-33D	Water	1/14/2016 09:55	1/14/2016 11:22
M1600181009	MW-35I	Water	1/14/2016 10:35	1/14/2016 11:22
M1600181010	MW-34I	Water	1/13/2016 15:39	1/14/2016 11:22
M1600181011	OW-16	Water	1/13/2016 16:28	1/14/2016 11:22
M1600181012	MW-38I	Water	1/13/2016 15:21	1/14/2016 11:22
M1600181013	MW-23	Water	1/13/2016 15:52	1/14/2016 11:22
M1600181014	MW-26I	Water	1/13/2016 16:24	1/14/2016 11:22

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ANALYTICAL RESULTS

Workorder: M1600181 Shell-First Coast #1801 Energy

Lab ID: **M1600181001** Date Received: 01/14/16 11:22 Matrix: Water

Sample ID: **OW-17** Date Collected: 01/14/16 10:37

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**0.041**	**U**	**ug/L**	**1**	0.20	0.041	1/16/2016 15:32	M
2-Methylnaphthalene	**0.044**	**U**	**ug/L**	**1**	0.20	0.044	1/16/2016 15:32	M
Acenaphthene	**0.048**	**U**	**ug/L**	**1**	0.20	0.048	1/16/2016 15:32	M
Acenaphthylene	**0.030**	**U**	**ug/L**	**1**	0.20	0.030	1/16/2016 15:32	M
Anthracene	**0.022**	**U**	**ug/L**	**1**	0.20	0.022	1/16/2016 15:32	M
Benzo[a]anthracene	**0.026**	**U**	**ug/L**	**1**	0.20	0.026	1/16/2016 15:32	M
Benzo[a]pyrene	**0.032**	**U**	**ug/L**	**1**	0.20	0.032	1/16/2016 15:32	M
Benzo[b]fluoranthene	**0.030**	**U**	**ug/L**	**1**	0.10	0.030	1/16/2016 15:32	M
Benzo[g,h,i]perylene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 15:32	M
Benzo[k]fluoranthene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 15:32	M
Chrysene	**0.027**	**U**	**ug/L**	**1**	0.20	0.027	1/16/2016 15:32	M
Dibenzo[a,h]anthracene	**0.029**	**U**	**ug/L**	**1**	0.20	0.029	1/16/2016 15:32	M
Fluoranthene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 15:32	M
Fluorene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 15:32	M
Indeno(1,2,3-cd)pyrene	**0.034**	**U**	**ug/L**	**1**	0.20	0.034	1/16/2016 15:32	M
Naphthalene	**0.050**	**U**	**ug/L**	**1**	0.20	0.050	1/16/2016 15:32	M
Phenanthrene	**0.051**	**U**	**ug/L**	**1**	0.20	0.051	1/16/2016 15:32	M
Pyrene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 15:32	M
Nitrobenzene-d5 (S)	**113**		**%**	**1**	32-147		1/16/2016 15:32	
2-Fluorobiphenyl (S)	**96**		**%**	**1**	34-140		1/16/2016 15:32	
p-Terphenyl-d14 (S)	**71**		**%**	**1**	54-138		1/16/2016 15:32	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	1/15/2016 18:25	M
Ethylbenzene	**0.38**	**U**	**ug/L**	**1**	1.0	0.38	1/15/2016 18:25	M
Methyl tert-butyl Ether (MTBE)	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	1/15/2016 18:25	M
Toluene	**0.49**	**U**	**ug/L**	**1**	1.0	0.49	1/15/2016 18:25	M
Xylene (Total)	**1.1**	**U**	**ug/L**	**1**	2.0	1.1	1/15/2016 18:25	M
1,2-Dichloroethane-d4 (S)	**109**		**%**	**1**	77-125		1/15/2016 18:25	
Toluene-d8 (S)	**121**		**%**	**1**	80-121		1/15/2016 18:25	
Bromofluorobenzene (S)	**104**		**%**	**1**	80-129		1/15/2016 18:25	

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ANALYTICAL RESULTS

Workorder: M1600181 Shell-First Coast #1801 Energy

Lab ID: **M1600181002** Date Received: 01/14/16 11:22 Matrix: Water

Sample ID: **OW-15** Date Collected: 01/14/16 10:09

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**0.041**	**U**	**ug/L**	**1**	0.20	0.041	1/16/2016 16:00	M
2-Methylnaphthalene	**0.044**	**U**	**ug/L**	**1**	0.20	0.044	1/16/2016 16:00	M
Acenaphthene	**0.048**	**U**	**ug/L**	**1**	0.20	0.048	1/16/2016 16:00	M
Acenaphthylene	**0.030**	**U**	**ug/L**	**1**	0.20	0.030	1/16/2016 16:00	M
Anthracene	**0.022**	**U**	**ug/L**	**1**	0.20	0.022	1/16/2016 16:00	M
Benzo[a]anthracene	**0.026**	**U**	**ug/L**	**1**	0.20	0.026	1/16/2016 16:00	M
Benzo[a]pyrene	**0.032**	**U**	**ug/L**	**1**	0.20	0.032	1/16/2016 16:00	M
Benzo[b]fluoranthene	**0.030**	**U**	**ug/L**	**1**	0.10	0.030	1/16/2016 16:00	M
Benzo[g,h,i]perylene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 16:00	M
Benzo[k]fluoranthene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 16:00	M
Chrysene	**0.027**	**U**	**ug/L**	**1**	0.20	0.027	1/16/2016 16:00	M
Dibenzo[a,h]anthracene	**0.029**	**U**	**ug/L**	**1**	0.20	0.029	1/16/2016 16:00	M
Fluoranthene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 16:00	M
Fluorene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 16:00	M
Indeno(1,2,3-cd)pyrene	**0.034**	**U**	**ug/L**	**1**	0.20	0.034	1/16/2016 16:00	M
Naphthalene	**0.050**	**U**	**ug/L**	**1**	0.20	0.050	1/16/2016 16:00	M
Phenanthrene	**0.051**	**U**	**ug/L**	**1**	0.20	0.051	1/16/2016 16:00	M
Pyrene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 16:00	M
Nitrobenzene-d5 (S)	**121**		**%**	**1**	32-147		1/16/2016 16:00	
2-Fluorobiphenyl (S)	**96**		**%**	**1**	34-140		1/16/2016 16:00	
p-Terphenyl-d14 (S)	**86**		**%**	**1**	54-138		1/16/2016 16:00	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	1/15/2016 18:56	M
Ethylbenzene	**0.38**	**U**	**ug/L**	**1**	1.0	0.38	1/15/2016 18:56	M
Methyl tert-butyl Ether (MTBE)	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	1/15/2016 18:56	M
Toluene	**0.49**	**U**	**ug/L**	**1**	1.0	0.49	1/15/2016 18:56	M
Xylene (Total)	**1.1**	**U**	**ug/L**	**1**	2.0	1.1	1/15/2016 18:56	M
1,2-Dichloroethane-d4 (S)	**111**		**%**	**1**	77-125		1/15/2016 18:56	
Toluene-d8 (S)	**115**		**%**	**1**	80-121		1/15/2016 18:56	
Bromofluorobenzene (S)	**100**		**%**	**1**	80-129		1/15/2016 18:56	

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ANALYTICAL RESULTS

Workorder: M1600181 Shell-First Coast #1801 Energy

Lab ID: **M1600181003** Date Received: 01/14/16 11:22 Matrix: Water

Sample ID: **MW-24** Date Collected: 01/14/16 09:16

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**0.041**	**U**	**ug/L**	**1**	0.20	0.041	1/16/2016 16:28	M
2-Methylnaphthalene	**0.044**	**U**	**ug/L**	**1**	0.20	0.044	1/16/2016 16:28	M
Acenaphthene	**0.048**	**U**	**ug/L**	**1**	0.20	0.048	1/16/2016 16:28	M
Acenaphthylene	**0.030**	**U**	**ug/L**	**1**	0.20	0.030	1/16/2016 16:28	M
Anthracene	**0.022**	**U**	**ug/L**	**1**	0.20	0.022	1/16/2016 16:28	M
Benzo[a]anthracene	**0.026**	**U**	**ug/L**	**1**	0.20	0.026	1/16/2016 16:28	M
Benzo[a]pyrene	**0.032**	**U**	**ug/L**	**1**	0.20	0.032	1/16/2016 16:28	M
Benzo[b]fluoranthene	**0.030**	**U**	**ug/L**	**1**	0.10	0.030	1/16/2016 16:28	M
Benzo[g,h,i]perylene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 16:28	M
Benzo[k]fluoranthene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 16:28	M
Chrysene	**0.027**	**U**	**ug/L**	**1**	0.20	0.027	1/16/2016 16:28	M
Dibenzo[a,h]anthracene	**0.029**	**U**	**ug/L**	**1**	0.20	0.029	1/16/2016 16:28	M
Fluoranthene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 16:28	M
Fluorene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 16:28	M
Indeno(1,2,3-cd)pyrene	**0.034**	**U**	**ug/L**	**1**	0.20	0.034	1/16/2016 16:28	M
Naphthalene	**0.050**	**U**	**ug/L**	**1**	0.20	0.050	1/16/2016 16:28	M
Phenanthrene	**0.051**	**U**	**ug/L**	**1**	0.20	0.051	1/16/2016 16:28	M
Pyrene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 16:28	M
Nitrobenzene-d5 (S)	**117**		**%**	**1**	32-147		1/16/2016 16:28	
2-Fluorobiphenyl (S)	**99**		**%**	**1**	34-140		1/16/2016 16:28	
p-Terphenyl-d14 (S)	**91**		**%**	**1**	54-138		1/16/2016 16:28	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	1/15/2016 19:27	M
Ethylbenzene	**0.38**	**U**	**ug/L**	**1**	1.0	0.38	1/15/2016 19:27	M
Methyl tert-butyl Ether (MTBE)	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	1/15/2016 19:27	M
Toluene	**0.49**	**U**	**ug/L**	**1**	1.0	0.49	1/15/2016 19:27	M
Xylene (Total)	**1.1**	**U**	**ug/L**	**1**	2.0	1.1	1/15/2016 19:27	M
1,2-Dichloroethane-d4 (S)	**110**		**%**	**1**	77-125		1/15/2016 19:27	
Toluene-d8 (S)	**121**		**%**	**1**	80-121		1/15/2016 19:27	
Bromofluorobenzene (S)	**103**		**%**	**1**	80-129		1/15/2016 19:27	

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ANALYTICAL RESULTS

Workorder: M1600181 Shell-First Coast #1801 Energy

Lab ID: **M1600181004** Date Received: 01/14/16 11:22 Matrix: Water

Sample ID: **MW-25** Date Collected: 01/14/16 11:04

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**0.041**	**U**	**ug/L**	**1**	0.20	0.041	1/16/2016 16:55	M
2-Methylnaphthalene	**0.044**	**U**	**ug/L**	**1**	0.20	0.044	1/16/2016 16:55	M
Acenaphthene	**0.048**	**U**	**ug/L**	**1**	0.20	0.048	1/16/2016 16:55	M
Acenaphthylene	**0.030**	**U**	**ug/L**	**1**	0.20	0.030	1/16/2016 16:55	M
Anthracene	**0.022**	**U**	**ug/L**	**1**	0.20	0.022	1/16/2016 16:55	M
Benzo[a]anthracene	**0.026**	**U**	**ug/L**	**1**	0.20	0.026	1/16/2016 16:55	M
Benzo[a]pyrene	**0.032**	**U**	**ug/L**	**1**	0.20	0.032	1/16/2016 16:55	M
Benzo[b]fluoranthene	**0.030**	**U**	**ug/L**	**1**	0.10	0.030	1/16/2016 16:55	M
Benzo[g,h,i]perylene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 16:55	M
Benzo[k]fluoranthene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 16:55	M
Chrysene	**0.027**	**U**	**ug/L**	**1**	0.20	0.027	1/16/2016 16:55	M
Dibenzo[a,h]anthracene	**0.029**	**U**	**ug/L**	**1**	0.20	0.029	1/16/2016 16:55	M
Fluoranthene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 16:55	M
Fluorene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 16:55	M
Indeno(1,2,3-cd)pyrene	**0.034**	**U**	**ug/L**	**1**	0.20	0.034	1/16/2016 16:55	M
Naphthalene	**0.050**	**U**	**ug/L**	**1**	0.20	0.050	1/16/2016 16:55	M
Phenanthrene	**0.051**	**U**	**ug/L**	**1**	0.20	0.051	1/16/2016 16:55	M
Pyrene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 16:55	M
Nitrobenzene-d5 (S)	**112**		**%**	**1**	32-147		1/16/2016 16:55	
2-Fluorobiphenyl (S)	**96**		**%**	**1**	34-140		1/16/2016 16:55	
p-Terphenyl-d14 (S)	**85**		**%**	**1**	54-138		1/16/2016 16:55	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	1/15/2016 19:57	M
Ethylbenzene	**0.38**	**U**	**ug/L**	**1**	1.0	0.38	1/15/2016 19:57	M
Methyl tert-butyl Ether (MTBE)	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	1/15/2016 19:57	M
Toluene	**0.49**	**U**	**ug/L**	**1**	1.0	0.49	1/15/2016 19:57	M
Xylene (Total)	**1.1**	**U**	**ug/L**	**1**	2.0	1.1	1/15/2016 19:57	M
1,2-Dichloroethane-d4 (S)	**110**		**%**	**1**	77-125		1/15/2016 19:57	
Toluene-d8 (S)	**120**		**%**	**1**	80-121		1/15/2016 19:57	
Bromofluorobenzene (S)	**99**		**%**	**1**	80-129		1/15/2016 19:57	

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ANALYTICAL RESULTS

Workorder: M1600181 Shell-First Coast #1801 Energy

Lab ID: **M1600181005** Date Received: 01/14/16 13:29 Matrix: Water

Sample ID: **MW-27I** Date Collected: 01/14/16 09:25

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**0.041**	**U**	**ug/L**	**1**	0.20	0.041	1/16/2016 17:23	M
2-Methylnaphthalene	**0.044**	**U**	**ug/L**	**1**	0.20	0.044	1/16/2016 17:23	M
Acenaphthene	**0.048**	**U**	**ug/L**	**1**	0.20	0.048	1/16/2016 17:23	M
Acenaphthylene	**0.030**	**U**	**ug/L**	**1**	0.20	0.030	1/16/2016 17:23	M
Anthracene	**0.022**	**U**	**ug/L**	**1**	0.20	0.022	1/16/2016 17:23	M
Benzo[a]anthracene	**0.026**	**U**	**ug/L**	**1**	0.20	0.026	1/16/2016 17:23	M
Benzo[a]pyrene	**0.032**	**U**	**ug/L**	**1**	0.20	0.032	1/16/2016 17:23	M
Benzo[b]fluoranthene	**0.030**	**U**	**ug/L**	**1**	0.10	0.030	1/16/2016 17:23	M
Benzo[g,h,i]perylene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 17:23	M
Benzo[k]fluoranthene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 17:23	M
Chrysene	**0.027**	**U**	**ug/L**	**1**	0.20	0.027	1/16/2016 17:23	M
Dibenzo[a,h]anthracene	**0.029**	**U**	**ug/L**	**1**	0.20	0.029	1/16/2016 17:23	M
Fluoranthene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 17:23	M
Fluorene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 17:23	M
Indeno(1,2,3-cd)pyrene	**0.034**	**U**	**ug/L**	**1**	0.20	0.034	1/16/2016 17:23	M
Naphthalene	**0.050**	**U**	**ug/L**	**1**	0.20	0.050	1/16/2016 17:23	M
Phenanthrene	**0.051**	**U**	**ug/L**	**1**	0.20	0.051	1/16/2016 17:23	M
Pyrene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 17:23	M
Nitrobenzene-d5 (S)	**89**		**%**	**1**	32-147		1/16/2016 17:23	
2-Fluorobiphenyl (S)	**80**		**%**	**1**	34-140		1/16/2016 17:23	
p-Terphenyl-d14 (S)	**66**		**%**	**1**	54-138		1/16/2016 17:23	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	1/15/2016 20:28	M
Ethylbenzene	**0.38**	**U**	**ug/L**	**1**	1.0	0.38	1/15/2016 20:28	M
Methyl tert-butyl Ether (MTBE)	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	1/15/2016 20:28	M
Toluene	**0.49**	**U**	**ug/L**	**1**	1.0	0.49	1/15/2016 20:28	M
Xylene (Total)	**1.1**	**U**	**ug/L**	**1**	2.0	1.1	1/15/2016 20:28	M
1,2-Dichloroethane-d4 (S)	**103**		**%**	**1**	77-125		1/15/2016 20:28	
Toluene-d8 (S)	**120**		**%**	**1**	80-121		1/15/2016 20:28	
Bromofluorobenzene (S)	**102**		**%**	**1**	80-129		1/15/2016 20:28	

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ANALYTICAL RESULTS

Workorder: M1600181 Shell-First Coast #1801 Energy

Lab ID: **M1600181006** Date Received: 01/14/16 11:22 Matrix: Water

Sample ID: **MW-30D** Date Collected: 01/14/16 08:43

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**0.041**	**U**	**ug/L**	**1**	0.20	0.041	1/16/2016 17:51	M
2-Methylnaphthalene	**0.044**	**U**	**ug/L**	**1**	0.20	0.044	1/16/2016 17:51	M
Acenaphthene	**0.048**	**U**	**ug/L**	**1**	0.20	0.048	1/16/2016 17:51	M
Acenaphthylene	**0.030**	**U**	**ug/L**	**1**	0.20	0.030	1/16/2016 17:51	M
Anthracene	**0.022**	**U**	**ug/L**	**1**	0.20	0.022	1/16/2016 17:51	M
Benzo[a]anthracene	**0.026**	**U**	**ug/L**	**1**	0.20	0.026	1/16/2016 17:51	M
Benzo[a]pyrene	**0.032**	**U**	**ug/L**	**1**	0.20	0.032	1/16/2016 17:51	M
Benzo[b]fluoranthene	**0.030**	**U**	**ug/L**	**1**	0.10	0.030	1/16/2016 17:51	M
Benzo[g,h,i]perylene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 17:51	M
Benzo[k]fluoranthene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 17:51	M
Chrysene	**0.027**	**U**	**ug/L**	**1**	0.20	0.027	1/16/2016 17:51	M
Dibenzo[a,h]anthracene	**0.029**	**U**	**ug/L**	**1**	0.20	0.029	1/16/2016 17:51	M
Fluoranthene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 17:51	M
Fluorene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 17:51	M
Indeno(1,2,3-cd)pyrene	**0.034**	**U**	**ug/L**	**1**	0.20	0.034	1/16/2016 17:51	M
Naphthalene	**0.050**	**U**	**ug/L**	**1**	0.20	0.050	1/16/2016 17:51	M
Phenanthrene	**0.051**	**U**	**ug/L**	**1**	0.20	0.051	1/16/2016 17:51	M
Pyrene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 17:51	M
Nitrobenzene-d5 (S)	**109**		**%**	**1**	32-147		1/16/2016 17:51	
2-Fluorobiphenyl (S)	**87**		**%**	**1**	34-140		1/16/2016 17:51	
p-Terphenyl-d14 (S)	**75**		**%**	**1**	54-138		1/16/2016 17:51	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	1/15/2016 20:59	M
Ethylbenzene	**0.38**	**U**	**ug/L**	**1**	1.0	0.38	1/15/2016 20:59	M
Methyl tert-butyl Ether (MTBE)	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	1/15/2016 20:59	M
Toluene	**0.49**	**U**	**ug/L**	**1**	1.0	0.49	1/15/2016 20:59	M
Xylene (Total)	**1.1**	**U**	**ug/L**	**1**	2.0	1.1	1/15/2016 20:59	M
1,2-Dichloroethane-d4 (S)	**106**		**%**	**1**	77-125		1/15/2016 20:59	
Toluene-d8 (S)	**120**		**%**	**1**	80-121		1/15/2016 20:59	
Bromofluorobenzene (S)	**102**		**%**	**1**	80-129		1/15/2016 20:59	

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ANALYTICAL RESULTS

Workorder: M1600181 Shell-First Coast #1801 Energy

Lab ID: **M1600181007** Date Received: 01/14/16 11:22 Matrix: Water

Sample ID: **MW-31D** Date Collected: 01/14/16 08:38

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**0.041**	**U**	**ug/L**	**1**	0.20	0.041	1/16/2016 18:18	M
2-Methylnaphthalene	**0.044**	**U**	**ug/L**	**1**	0.20	0.044	1/16/2016 18:18	M
Acenaphthene	**0.048**	**U**	**ug/L**	**1**	0.20	0.048	1/16/2016 18:18	M
Acenaphthylene	**0.030**	**U**	**ug/L**	**1**	0.20	0.030	1/16/2016 18:18	M
Anthracene	**0.022**	**U**	**ug/L**	**1**	0.20	0.022	1/16/2016 18:18	M
Benzo[a]anthracene	**0.026**	**U**	**ug/L**	**1**	0.20	0.026	1/16/2016 18:18	M
Benzo[a]pyrene	**0.032**	**U**	**ug/L**	**1**	0.20	0.032	1/16/2016 18:18	M
Benzo[b]fluoranthene	**0.030**	**U**	**ug/L**	**1**	0.10	0.030	1/16/2016 18:18	M
Benzo[g,h,i]perylene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 18:18	M
Benzo[k]fluoranthene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 18:18	M
Chrysene	**0.027**	**U**	**ug/L**	**1**	0.20	0.027	1/16/2016 18:18	M
Dibenzo[a,h]anthracene	**0.029**	**U**	**ug/L**	**1**	0.20	0.029	1/16/2016 18:18	M
Fluoranthene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 18:18	M
Fluorene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 18:18	M
Indeno(1,2,3-cd)pyrene	**0.034**	**U**	**ug/L**	**1**	0.20	0.034	1/16/2016 18:18	M
Naphthalene	**0.15**	**I**	**ug/L**	**1**	0.20	0.050	1/16/2016 18:18	M
Phenanthrene	**0.051**	**U**	**ug/L**	**1**	0.20	0.051	1/16/2016 18:18	M
Pyrene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 18:18	M
Nitrobenzene-d5 (S)	**141**		**%**	**1**	32-147		1/16/2016 18:18	
2-Fluorobiphenyl (S)	**116**		**%**	**1**	34-140		1/16/2016 18:18	
p-Terphenyl-d14 (S)	**86**		**%**	**1**	54-138		1/16/2016 18:18	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	1/15/2016 21:30	M
Ethylbenzene	**0.38**	**U**	**ug/L**	**1**	1.0	0.38	1/15/2016 21:30	M
Methyl tert-butyl Ether (MTBE)	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	1/15/2016 21:30	M
Toluene	**0.49**	**U**	**ug/L**	**1**	1.0	0.49	1/15/2016 21:30	M
Xylene (Total)	**1.1**	**U**	**ug/L**	**1**	2.0	1.1	1/15/2016 21:30	M
1,2-Dichloroethane-d4 (S)	**110**		**%**	**1**	77-125		1/15/2016 21:30	
Toluene-d8 (S)	**120**		**%**	**1**	80-121		1/15/2016 21:30	
Bromofluorobenzene (S)	**104**		**%**	**1**	80-129		1/15/2016 21:30	

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ANALYTICAL RESULTS

Workorder: M1600181 Shell-First Coast #1801 Energy

Lab ID: **M1600181008** Date Received: 01/14/16 11:22 Matrix: Water

Sample ID: **MW-33D** Date Collected: 01/14/16 09:55

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**0.041**	**U**	**ug/L**	**1**	0.20	0.041	1/16/2016 18:46	M
2-Methylnaphthalene	**0.044**	**U**	**ug/L**	**1**	0.20	0.044	1/16/2016 18:46	M
Acenaphthene	**0.048**	**U**	**ug/L**	**1**	0.20	0.048	1/16/2016 18:46	M
Acenaphthylene	**0.030**	**U**	**ug/L**	**1**	0.20	0.030	1/16/2016 18:46	M
Anthracene	**0.022**	**U**	**ug/L**	**1**	0.20	0.022	1/16/2016 18:46	M
Benzo[a]anthracene	**0.026**	**U**	**ug/L**	**1**	0.20	0.026	1/16/2016 18:46	M
Benzo[a]pyrene	**0.032**	**U**	**ug/L**	**1**	0.20	0.032	1/16/2016 18:46	M
Benzo[b]fluoranthene	**0.030**	**U**	**ug/L**	**1**	0.10	0.030	1/16/2016 18:46	M
Benzo[g,h,i]perylene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 18:46	M
Benzo[k]fluoranthene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 18:46	M
Chrysene	**0.027**	**U**	**ug/L**	**1**	0.20	0.027	1/16/2016 18:46	M
Dibenzo[a,h]anthracene	**0.029**	**U**	**ug/L**	**1**	0.20	0.029	1/16/2016 18:46	M
Fluoranthene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 18:46	M
Fluorene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 18:46	M
Indeno(1,2,3-cd)pyrene	**0.034**	**U**	**ug/L**	**1**	0.20	0.034	1/16/2016 18:46	M
Naphthalene	**0.050**	**U**	**ug/L**	**1**	0.20	0.050	1/16/2016 18:46	M
Phenanthrene	**0.051**	**U**	**ug/L**	**1**	0.20	0.051	1/16/2016 18:46	M
Pyrene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 18:46	M
Nitrobenzene-d5 (S)	**108**		**%**	**1**	32-147		1/16/2016 18:46	
2-Fluorobiphenyl (S)	**88**		**%**	**1**	34-140		1/16/2016 18:46	
p-Terphenyl-d14 (S)	**61**		**%**	**1**	54-138		1/16/2016 18:46	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	1/15/2016 22:00	M
Ethylbenzene	**0.38**	**U**	**ug/L**	**1**	1.0	0.38	1/15/2016 22:00	M
Methyl tert-butyl Ether (MTBE)	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	1/15/2016 22:00	M
Toluene	**0.49**	**U**	**ug/L**	**1**	1.0	0.49	1/15/2016 22:00	M
Xylene (Total)	**1.1**	**U**	**ug/L**	**1**	2.0	1.1	1/15/2016 22:00	M
1,2-Dichloroethane-d4 (S)	**106**		**%**	**1**	77-125		1/15/2016 22:00	
Toluene-d8 (S)	**118**		**%**	**1**	80-121		1/15/2016 22:00	
Bromofluorobenzene (S)	**100**		**%**	**1**	80-129		1/15/2016 22:00	

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ANALYTICAL RESULTS

Workorder: M1600181 Shell-First Coast #1801 Energy

Lab ID: **M1600181009** Date Received: 01/14/16 11:22 Matrix: Water

Sample ID: **MW-35I** Date Collected: 01/14/16 10:35

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**0.041**	**U**	**ug/L**	**1**	0.20	0.041	1/16/2016 19:13	M
2-Methylnaphthalene	**0.044**	**U**	**ug/L**	**1**	0.20	0.044	1/16/2016 19:13	M
Acenaphthene	**0.048**	**U**	**ug/L**	**1**	0.20	0.048	1/16/2016 19:13	M
Acenaphthylene	**0.030**	**U**	**ug/L**	**1**	0.20	0.030	1/16/2016 19:13	M
Anthracene	**0.022**	**U**	**ug/L**	**1**	0.20	0.022	1/16/2016 19:13	M
Benzo[a]anthracene	**0.026**	**U**	**ug/L**	**1**	0.20	0.026	1/16/2016 19:13	M
Benzo[a]pyrene	**0.032**	**U**	**ug/L**	**1**	0.20	0.032	1/16/2016 19:13	M
Benzo[b]fluoranthene	**0.030**	**U**	**ug/L**	**1**	0.10	0.030	1/16/2016 19:13	M
Benzo[g,h,i]perylene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 19:13	M
Benzo[k]fluoranthene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 19:13	M
Chrysene	**0.027**	**U**	**ug/L**	**1**	0.20	0.027	1/16/2016 19:13	M
Dibenzo[a,h]anthracene	**0.029**	**U**	**ug/L**	**1**	0.20	0.029	1/16/2016 19:13	M
Fluoranthene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 19:13	M
Fluorene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 19:13	M
Indeno(1,2,3-cd)pyrene	**0.034**	**U**	**ug/L**	**1**	0.20	0.034	1/16/2016 19:13	M
Naphthalene	**0.050**	**U**	**ug/L**	**1**	0.20	0.050	1/16/2016 19:13	M
Phenanthrene	**0.051**	**U**	**ug/L**	**1**	0.20	0.051	1/16/2016 19:13	M
Pyrene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 19:13	M
Nitrobenzene-d5 (S)	**103**		**%**	**1**	32-147		1/16/2016 19:13	
2-Fluorobiphenyl (S)	**84**		**%**	**1**	34-140		1/16/2016 19:13	
p-Terphenyl-d14 (S)	**71**		**%**	**1**	54-138		1/16/2016 19:13	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	1/15/2016 22:31	M
Ethylbenzene	**0.38**	**U**	**ug/L**	**1**	1.0	0.38	1/15/2016 22:31	M
Methyl tert-butyl Ether (MTBE)	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	1/15/2016 22:31	M
Toluene	**0.49**	**U**	**ug/L**	**1**	1.0	0.49	1/15/2016 22:31	M
Xylene (Total)	**1.1**	**U**	**ug/L**	**1**	2.0	1.1	1/15/2016 22:31	M
1,2-Dichloroethane-d4 (S)	**110**		**%**	**1**	77-125		1/15/2016 22:31	
Toluene-d8 (S)	**120**		**%**	**1**	80-121		1/15/2016 22:31	
Bromofluorobenzene (S)	**103**		**%**	**1**	80-129		1/15/2016 22:31	

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ANALYTICAL RESULTS

Workorder: M1600181 Shell-First Coast #1801 Energy

Lab ID: **M1600181010** Date Received: 01/14/16 11:22 Matrix: Water

Sample ID: **MW-34I** Date Collected: 01/13/16 15:39

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**0.041**	**U**	**ug/L**	**1**	0.20	0.041	1/16/2016 19:41	M
2-Methylnaphthalene	**0.044**	**U**	**ug/L**	**1**	0.20	0.044	1/16/2016 19:41	M
Acenaphthene	**0.093**	**I**	**ug/L**	**1**	0.20	0.048	1/16/2016 19:41	M
Acenaphthylene	**0.030**	**U**	**ug/L**	**1**	0.20	0.030	1/16/2016 19:41	M
Anthracene	**0.022**	**U**	**ug/L**	**1**	0.20	0.022	1/16/2016 19:41	M
Benzo[a]anthracene	**0.026**	**U**	**ug/L**	**1**	0.20	0.026	1/16/2016 19:41	M
Benzo[a]pyrene	**0.032**	**U**	**ug/L**	**1**	0.20	0.032	1/16/2016 19:41	M
Benzo[b]fluoranthene	**0.030**	**U**	**ug/L**	**1**	0.10	0.030	1/16/2016 19:41	M
Benzo[g,h,i]perylene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 19:41	M
Benzo[k]fluoranthene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 19:41	M
Chrysene	**0.027**	**U**	**ug/L**	**1**	0.20	0.027	1/16/2016 19:41	M
Dibenzo[a,h]anthracene	**0.029**	**U**	**ug/L**	**1**	0.20	0.029	1/16/2016 19:41	M
Fluoranthene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 19:41	M
Fluorene	**0.24**		**ug/L**	**1**	0.20	0.036	1/16/2016 19:41	M
Indeno(1,2,3-cd)pyrene	**0.034**	**U**	**ug/L**	**1**	0.20	0.034	1/16/2016 19:41	M
Naphthalene	**0.050**	**U**	**ug/L**	**1**	0.20	0.050	1/16/2016 19:41	M
Phenanthrene	**0.051**	**U**	**ug/L**	**1**	0.20	0.051	1/16/2016 19:41	M
Pyrene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 19:41	M
Nitrobenzene-d5 (S)	**144**		**%**	**1**	32-147		1/16/2016 19:41	
2-Fluorobiphenyl (S)	**120**		**%**	**1**	34-140		1/16/2016 19:41	
p-Terphenyl-d14 (S)	**111**		**%**	**1**	54-138		1/16/2016 19:41	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	1/15/2016 23:02	M
Ethylbenzene	**0.38**	**U**	**ug/L**	**1**	1.0	0.38	1/15/2016 23:02	M
Methyl tert-butyl Ether (MTBE)	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	1/15/2016 23:02	M
Toluene	**0.49**	**U**	**ug/L**	**1**	1.0	0.49	1/15/2016 23:02	M
Xylene (Total)	**1.1**	**U**	**ug/L**	**1**	2.0	1.1	1/15/2016 23:02	M
1,2-Dichloroethane-d4 (S)	**113**		**%**	**1**	77-125		1/15/2016 23:02	
Toluene-d8 (S)	**119**		**%**	**1**	80-121		1/15/2016 23:02	
Bromofluorobenzene (S)	**100**		**%**	**1**	80-129		1/15/2016 23:02	

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ANALYTICAL RESULTS

Workorder: M1600181 Shell-First Coast #1801 Energy

Lab ID: **M1600181011** Date Received: 01/14/16 11:22 Matrix: Water

Sample ID: **OW-16** Date Collected: 01/13/16 16:28

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**0.041**	**U**	**ug/L**	**1**	0.20	0.041	1/16/2016 20:09	M
2-Methylnaphthalene	**0.044**	**U**	**ug/L**	**1**	0.20	0.044	1/16/2016 20:09	M
Acenaphthene	**0.048**	**U**	**ug/L**	**1**	0.20	0.048	1/16/2016 20:09	M
Acenaphthylene	**0.030**	**U**	**ug/L**	**1**	0.20	0.030	1/16/2016 20:09	M
Anthracene	**0.022**	**U**	**ug/L**	**1**	0.20	0.022	1/16/2016 20:09	M
Benzo[a]anthracene	**0.026**	**U**	**ug/L**	**1**	0.20	0.026	1/16/2016 20:09	M
Benzo[a]pyrene	**0.032**	**U**	**ug/L**	**1**	0.20	0.032	1/16/2016 20:09	M
Benzo[b]fluoranthene	**0.030**	**U**	**ug/L**	**1**	0.10	0.030	1/16/2016 20:09	M
Benzo[g,h,i]perylene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 20:09	M
Benzo[k]fluoranthene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 20:09	M
Chrysene	**0.027**	**U**	**ug/L**	**1**	0.20	0.027	1/16/2016 20:09	M
Dibenzo[a,h]anthracene	**0.029**	**U**	**ug/L**	**1**	0.20	0.029	1/16/2016 20:09	M
Fluoranthene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 20:09	M
Fluorene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 20:09	M
Indeno(1,2,3-cd)pyrene	**0.034**	**U**	**ug/L**	**1**	0.20	0.034	1/16/2016 20:09	M
Naphthalene	**0.050**	**U**	**ug/L**	**1**	0.20	0.050	1/16/2016 20:09	M
Phenanthrene	**0.051**	**U**	**ug/L**	**1**	0.20	0.051	1/16/2016 20:09	M
Pyrene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 20:09	M
Nitrobenzene-d5 (S)	**110**		**%**	**1**	32-147		1/16/2016 20:09	
2-Fluorobiphenyl (S)	**95**		**%**	**1**	34-140		1/16/2016 20:09	
p-Terphenyl-d14 (S)	**88**		**%**	**1**	54-138		1/16/2016 20:09	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	1/16/2016 03:09	M
Ethylbenzene	**0.38**	**U**	**ug/L**	**1**	1.0	0.38	1/16/2016 03:09	M
Methyl tert-butyl Ether (MTBE)	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	1/16/2016 03:09	M
Toluene	**0.49**	**U**	**ug/L**	**1**	1.0	0.49	1/16/2016 03:09	M
Xylene (Total)	**1.1**	**U**	**ug/L**	**1**	2.0	1.1	1/16/2016 03:09	M
1,2-Dichloroethane-d4 (S)	**112**		**%**	**1**	77-125		1/16/2016 03:09	
Toluene-d8 (S)	**116**		**%**	**1**	80-121		1/16/2016 03:09	
Bromofluorobenzene (S)	**104**		**%**	**1**	80-129		1/16/2016 03:09	

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ANALYTICAL RESULTS

Workorder: M1600181 Shell-First Coast #1801 Energy

Lab ID: **M1600181012** Date Received: 01/14/16 11:22 Matrix: Water

Sample ID: **MW-38I** Date Collected: 01/13/16 15:21

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**0.041**	**U**	**ug/L**	**1**	0.20	0.041	1/16/2016 20:36	M
2-Methylnaphthalene	**0.044**	**U**	**ug/L**	**1**	0.20	0.044	1/16/2016 20:36	M
Acenaphthene	**0.048**	**U**	**ug/L**	**1**	0.20	0.048	1/16/2016 20:36	M
Acenaphthylene	**0.030**	**U**	**ug/L**	**1**	0.20	0.030	1/16/2016 20:36	M
Anthracene	**0.022**	**U**	**ug/L**	**1**	0.20	0.022	1/16/2016 20:36	M
Benzo[a]anthracene	**0.026**	**U**	**ug/L**	**1**	0.20	0.026	1/16/2016 20:36	M
Benzo[a]pyrene	**0.032**	**U**	**ug/L**	**1**	0.20	0.032	1/16/2016 20:36	M
Benzo[b]fluoranthene	**0.030**	**U**	**ug/L**	**1**	0.10	0.030	1/16/2016 20:36	M
Benzo[g,h,i]perylene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 20:36	M
Benzo[k]fluoranthene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 20:36	M
Chrysene	**0.027**	**U**	**ug/L**	**1**	0.20	0.027	1/16/2016 20:36	M
Dibenzo[a,h]anthracene	**0.029**	**U**	**ug/L**	**1**	0.20	0.029	1/16/2016 20:36	M
Fluoranthene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 20:36	M
Fluorene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 20:36	M
Indeno(1,2,3-cd)pyrene	**0.034**	**U**	**ug/L**	**1**	0.20	0.034	1/16/2016 20:36	M
Naphthalene	**0.050**	**U**	**ug/L**	**1**	0.20	0.050	1/16/2016 20:36	M
Phenanthrene	**0.051**	**U**	**ug/L**	**1**	0.20	0.051	1/16/2016 20:36	M
Pyrene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 20:36	M
Nitrobenzene-d5 (S)	**109**		**%**	**1**	32-147		1/16/2016 20:36	
2-Fluorobiphenyl (S)	**93**		**%**	**1**	34-140		1/16/2016 20:36	
p-Terphenyl-d14 (S)	**82**		**%**	**1**	54-138		1/16/2016 20:36	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	1/16/2016 03:39	M
Ethylbenzene	**0.38**	**U**	**ug/L**	**1**	1.0	0.38	1/16/2016 03:39	M
Methyl tert-butyl Ether (MTBE)	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	1/16/2016 03:39	M
Toluene	**0.49**	**U**	**ug/L**	**1**	1.0	0.49	1/16/2016 03:39	M
Xylene (Total)	**1.1**	**U**	**ug/L**	**1**	2.0	1.1	1/16/2016 03:39	M
1,2-Dichloroethane-d4 (S)	**107**		**%**	**1**	77-125		1/16/2016 03:39	
Toluene-d8 (S)	**119**		**%**	**1**	80-121		1/16/2016 03:39	
Bromofluorobenzene (S)	**98**		**%**	**1**	80-129		1/16/2016 03:39	

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ANALYTICAL RESULTS

Workorder: M1600181 Shell-First Coast #1801 Energy

Lab ID: **M1600181013** Date Received: 01/14/16 11:22 Matrix: Water

Sample ID: **MW-23** Date Collected: 01/13/16 15:52

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**0.041**	**U**	**ug/L**	**1**	0.20	0.041	1/16/2016 21:04	M
2-Methylnaphthalene	**0.044**	**U**	**ug/L**	**1**	0.20	0.044	1/16/2016 21:04	M
Acenaphthene	**0.048**	**U**	**ug/L**	**1**	0.20	0.048	1/16/2016 21:04	M
Acenaphthylene	**0.030**	**U**	**ug/L**	**1**	0.20	0.030	1/16/2016 21:04	M
Anthracene	**0.022**	**U**	**ug/L**	**1**	0.20	0.022	1/16/2016 21:04	M
Benzo[a]anthracene	**0.026**	**U**	**ug/L**	**1**	0.20	0.026	1/16/2016 21:04	M
Benzo[a]pyrene	**0.032**	**U**	**ug/L**	**1**	0.20	0.032	1/16/2016 21:04	M
Benzo[b]fluoranthene	**0.030**	**U**	**ug/L**	**1**	0.10	0.030	1/16/2016 21:04	M
Benzo[g,h,i]perylene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 21:04	M
Benzo[k]fluoranthene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 21:04	M
Chrysene	**0.027**	**U**	**ug/L**	**1**	0.20	0.027	1/16/2016 21:04	M
Dibenzo[a,h]anthracene	**0.029**	**U**	**ug/L**	**1**	0.20	0.029	1/16/2016 21:04	M
Fluoranthene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 21:04	M
Fluorene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 21:04	M
Indeno(1,2,3-cd)pyrene	**0.034**	**U**	**ug/L**	**1**	0.20	0.034	1/16/2016 21:04	M
Naphthalene	**0.050**	**U**	**ug/L**	**1**	0.20	0.050	1/16/2016 21:04	M
Phenanthrene	**0.051**	**U**	**ug/L**	**1**	0.20	0.051	1/16/2016 21:04	M
Pyrene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 21:04	M
Nitrobenzene-d5 (S)	**91**		**%**	**1**	32-147		1/16/2016 21:04	
2-Fluorobiphenyl (S)	**77**		**%**	**1**	34-140		1/16/2016 21:04	
p-Terphenyl-d14 (S)	**68**		**%**	**1**	54-138		1/16/2016 21:04	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	1/16/2016 04:10	M
Ethylbenzene	**0.38**	**U**	**ug/L**	**1**	1.0	0.38	1/16/2016 04:10	M
Methyl tert-butyl Ether (MTBE)	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	1/16/2016 04:10	M
Toluene	**0.49**	**U**	**ug/L**	**1**	1.0	0.49	1/16/2016 04:10	M
Xylene (Total)	**1.1**	**U**	**ug/L**	**1**	2.0	1.1	1/16/2016 04:10	M
1,2-Dichloroethane-d4 (S)	**108**		**%**	**1**	77-125		1/16/2016 04:10	
Toluene-d8 (S)	**119**		**%**	**1**	80-121		1/16/2016 04:10	
Bromofluorobenzene (S)	**102**		**%**	**1**	80-129		1/16/2016 04:10	

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ANALYTICAL RESULTS

Workorder: M1600181 Shell-First Coast #1801 Energy

Lab ID: **M1600181014** Date Received: 01/14/16 11:22 Matrix: Water

Sample ID: **MW-26I** Date Collected: 01/13/16 16:24

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**0.041**	**U**	**ug/L**	**1**	0.20	0.041	1/16/2016 21:31	M
2-Methylnaphthalene	**0.044**	**U**	**ug/L**	**1**	0.20	0.044	1/16/2016 21:31	M
Acenaphthene	**0.048**	**U**	**ug/L**	**1**	0.20	0.048	1/16/2016 21:31	M
Acenaphthylene	**0.030**	**U**	**ug/L**	**1**	0.20	0.030	1/16/2016 21:31	M
Anthracene	**0.022**	**U**	**ug/L**	**1**	0.20	0.022	1/16/2016 21:31	M
Benzo[a]anthracene	**0.026**	**U**	**ug/L**	**1**	0.20	0.026	1/16/2016 21:31	M
Benzo[a]pyrene	**0.032**	**U**	**ug/L**	**1**	0.20	0.032	1/16/2016 21:31	M
Benzo[b]fluoranthene	**0.030**	**U**	**ug/L**	**1**	0.10	0.030	1/16/2016 21:31	M
Benzo[g,h,i]perylene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 21:31	M
Benzo[k]fluoranthene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	1/16/2016 21:31	M
Chrysene	**0.027**	**U**	**ug/L**	**1**	0.20	0.027	1/16/2016 21:31	M
Dibenzo[a,h]anthracene	**0.029**	**U**	**ug/L**	**1**	0.20	0.029	1/16/2016 21:31	M
Fluoranthene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 21:31	M
Fluorene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 21:31	M
Indeno(1,2,3-cd)pyrene	**0.034**	**U**	**ug/L**	**1**	0.20	0.034	1/16/2016 21:31	M
Naphthalene	**0.050**	**U**	**ug/L**	**1**	0.20	0.050	1/16/2016 21:31	M
Phenanthrene	**0.051**	**U**	**ug/L**	**1**	0.20	0.051	1/16/2016 21:31	M
Pyrene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	1/16/2016 21:31	M
Nitrobenzene-d5 (S)	**107**		**%**	**1**	32-147		1/16/2016 21:31	
2-Fluorobiphenyl (S)	**90**		**%**	**1**	34-140		1/16/2016 21:31	
p-Terphenyl-d14 (S)	**74**		**%**	**1**	54-138		1/16/2016 21:31	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	1/16/2016 04:41	M
Ethylbenzene	**0.38**	**U**	**ug/L**	**1**	1.0	0.38	1/16/2016 04:41	M
Methyl tert-butyl Ether (MTBE)	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	1/16/2016 04:41	M
Toluene	**0.49**	**U**	**ug/L**	**1**	1.0	0.49	1/16/2016 04:41	M
Xylene (Total)	**1.1**	**U**	**ug/L**	**1**	2.0	1.1	1/16/2016 04:41	M
1,2-Dichloroethane-d4 (S)	**113**		**%**	**1**	77-125		1/16/2016 04:41	
Toluene-d8 (S)	**118**		**%**	**1**	80-121		1/16/2016 04:41	
Bromofluorobenzene (S)	**105**		**%**	**1**	80-129		1/16/2016 04:41	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: M1600181 Shell-First Coast #1801 Energy

PARAMETER QUALIFIERS

U	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.

LAB QUALIFIERS

M	DOH Certification #E82535(AEL-M)(FL NELAC Certification)

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QUALITY CONTROL DATA

Workorder: M1600181 Shell-First Coast #1801 Energy

QC Batch: EXTm/1034 Analysis Method: SW-846 8270C (SIM)

QC Batch Method: SW-846 3510C Prepared: 01/15/2016 09:00

Associated Lab Samples: M1600181001, M1600181002, M1600181003, M1600181004, M1600181005, M1600181006, M1600181007,

METHOD BLANK: 1949258

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
Naphthalene	ug/L	0.050	0.050	U
2-Methylnaphthalene	ug/L	0.044	0.044	U
1-Methylnaphthalene	ug/L	0.041	0.041	U
Acenaphthylene	ug/L	0.030	0.030	U
Acenaphthene	ug/L	0.048	0.048	U
Fluorene	ug/L	0.036	0.036	U
Phenanthrene	ug/L	0.051	0.051	U
Anthracene	ug/L	0.022	0.022	U
Fluoranthene	ug/L	0.036	0.036	U
Pyrene	ug/L	0.036	0.036	U
Benzo[a]anthracene	ug/L	0.026	0.026	U
Chrysene	ug/L	0.027	0.027	U
Benzo[b]fluoranthene	ug/L	0.030	0.030	U
Benzo[k]fluoranthene	ug/L	0.033	0.033	U
Benzo[a]pyrene	ug/L	0.032	0.032	U
Indeno(1,2,3-cd)pyrene	ug/L	0.034	0.034	U
Dibenzo[a,h]anthracene	ug/L	0.029	0.029	U
Benzo[g,h,i]perylene	ug/L	0.033	0.033	U
Nitrobenzene-d5 (S)	%	74	32-147	
2-Fluorobiphenyl (S)	%	63	34-140	
p-Terphenyl-d14 (S)	%	70	54-138	

LABORATORY CONTROL SAMPLE: 1949259

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES						
Naphthalene	ug/L	5	4.7	95	43-114	
2-Methylnaphthalene	ug/L	5	5.3	106	39-114	
1-Methylnaphthalene	ug/L	5	5.0	100	41-115	
Acenaphthylene	ug/L	5	4.3	86	35-121	
Acenaphthene	ug/L	5	4.3	85	48-114	
Fluorene	ug/L	5	5.3	105	50-118	
Phenanthrene	ug/L	5	4.9	98	53-115	
Anthracene	ug/L	5	4.7	93	53-119	
Fluoranthene	ug/L	5	4.5	91	58-120	

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QUALITY CONTROL DATA

Workorder: M1600181 Shell-First Coast #1801 Energy

LABORATORY CONTROL SAMPLE: 1949259

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/L	5	4.5	90	53-121	
Benzo[a]anthracene	ug/L	5	4.3	87	59-120	
Chrysene	ug/L	5	4.5	89	57-120	
Benzo[b]fluoranthene	ug/L	5	4.5	89	53-126	
Benzo[k]fluoranthene	ug/L	5	5.2	104	54-125	
Benzo[a]pyrene	ug/L	5	4.0	79	53-120	
Indeno(1,2,3-cd)pyrene	ug/L	5	4.4	89	48-130	
Dibenzo[a,h]anthracene	ug/L	5	5.1	102	44-131	
Benzo[g,h,i]perylene	ug/L	5	4.0	80	44-128	
Nitrobenzene-d5 (S)	%			80	32-147	
2-Fluorobiphenyl (S)	%			71	34-140	
p-Terphenyl-d14 (S)	%			74	54-138	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1949260 1949261 Original: M1600193002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES											
Naphthalene	ug/L	0	5	4.8	4.8	95	96	43-114	1	30	
2-Methylnaphthalene	ug/L	0	5	5.3	5.3	106	106	39-114	0	30	
1-Methylnaphthalene	ug/L	0	5	5.0	5.3	101	106	41-115	5	30	
Acenaphthylene	ug/L	0	5	4.2	4.3	84	86	35-121	3	30	
Acenaphthene	ug/L	0	5	4.0	4.1	81	82	48-114	1	30	
Fluorene	ug/L	0	5	5.0	5.1	101	102	50-118	1	30	
Phenanthrene	ug/L	0	5	5.1	5.1	102	101	53-115	1	30	
Anthracene	ug/L	0	5	4.7	5.1	94	102	53-119	9	30	
Fluoranthene	ug/L	0	5	4.6	4.6	91	92	58-120	1	30	
Pyrene	ug/L	0	5	4.4	4.6	88	92	53-121	4	30	
Benzo[a]anthracene	ug/L	0	5	4.4	4.5	87	89	59-120	2	30	
Chrysene	ug/L	0	5	4.5	4.7	89	93	57-120	4	30	
Benzo[b]fluoranthene	ug/L	0	5	4.4	4.3	88	86	53-126	3	30	
Benzo[k]fluoranthene	ug/L	0	5	4.9	4.9	98	99	54-125	1	30	
Benzo[a]pyrene	ug/L	0	5	3.8	3.9	76	77	53-120	1	30	
Indeno(1,2,3-cd)pyrene	ug/L	0	5	4.4	4.5	89	90	48-130	1	30	
Dibenzo[a,h]anthracene	ug/L	0	5	5.0	5.1	100	102	44-131	2	30	
Benzo[g,h,i]perylene	ug/L	0	5	4.0	4.1	81	82	44-128	1	30	
Nitrobenzene-d5 (S)	%					74	82	32-147	10		
2-Fluorobiphenyl (S)	%					64	72	34-140	12		
p-Terphenyl-d14 (S)	%					71	78	54-138	9		

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QUALITY CONTROL DATA

Workorder: M1600181 Shell-First Coast #1801 Energy

QC Batch: MSVm/1011 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B Prepared: 01/15/2016 13:17

Associated Lab Samples: M1600181001, M1600181002, M1600181003, M1600181004, M1600181005, M1600181006, M1600181007,

METHOD BLANK: 1950716

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Methyl tert-butyl Ether (MTBE)	ug/L	0.24	0.24	U
Benzene	ug/L	0.36	0.36	U
Toluene	ug/L	0.49	0.49	U
Ethylbenzene	ug/L	0.38	0.38	U
Xylene (Total)	ug/L	1.1	1.1	U
1,2-Dichloroethane-d4 (S)	%	120	77-125	
Toluene-d8 (S)	%	120	80-121	
Bromofluorobenzene (S)	%	104	80-129	

LABORATORY CONTROL SAMPLE: 1950717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
VOLATILES						
Methyl tert-butyl Ether (MTBE)	ug/L	20	22	110	70-130	
Benzene	ug/L	20	20	98	70-130	
Toluene	ug/L	20	20	101	70-130	
Ethylbenzene	ug/L	20	17	83	70-130	
Xylene (Total)	ug/L	60	53	88	70-130	
1,2-Dichloroethane-d4 (S)	%			111	70-130	
Toluene-d8 (S)	%			108	70-130	
Bromofluorobenzene (S)	%			108	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1950718 1950719 Original: M1600181002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES											
Methyl tert-butyl Ether (MTBE)	ug/L	0	20	3.8	8.5	19	43	70-130	76	30	J4
Benzene	ug/L	0	20	4.2	8.6	21	43	70-130	69	30	J4
Toluene	ug/L	0	20	4.5	9.9	23	50	70-130	74	30	J4

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QUALITY CONTROL DATA

Workorder: M1600181 Shell-First Coast #1801 Energy

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1950718 1950719 Original: M1600181002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Ethylbenzene	ug/L	0	20	3.4	7.7	17	39	70-130	79	30	J4
Xylene (Total)	ug/L	0	60	10	23	17	39	70-130	79	30	
1,2-Dichloroethane-d4 (S)	%	111				111	100	70-130	11	30	
Toluene-d8 (S)	%	115				121	115	70-130	5	30	
Bromofluorobenzene (S)	%	100				101	100	70-130	1	30	

QC Batch: MSVm/1011 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B Prepared: 01/15/2016 14:19

Associated Lab Samples: M1600181001, M1600181002, M1600181003, M1600181004, M1600181005, M1600181006, M1600181007,

METHOD BLANK: 1950716

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Methyl tert-butyl Ether (MTBE)	ug/L	0.24	0.24	U
Benzene	ug/L	0.36	0.36	U
Toluene	ug/L	0.49	0.49	U
Ethylbenzene	ug/L	0.38	0.38	U
Xylene (Total)	ug/L	1.1	1.1	U
1,2-Dichloroethane-d4 (S)	%	120	77-125	
Toluene-d8 (S)	%	120	80-121	
Bromofluorobenzene (S)	%	104	80-129	

LABORATORY CONTROL SAMPLE: 1950717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
VOLATILES						
Methyl tert-butyl Ether (MTBE)	ug/L	20	22	110	70-130	
Benzene	ug/L	20	20	98	70-130	
Toluene	ug/L	20	20	101	70-130	
Ethylbenzene	ug/L	20	17	83	70-130	
Xylene (Total)	ug/L	60	53	88	70-130	
1,2-Dichloroethane-d4 (S)	%			111	70-130	
Toluene-d8 (S)	%			108	70-130	
Bromofluorobenzene (S)	%			108	70-130	

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QUALITY CONTROL DATA

Workorder: M1600181 Shell-First Coast #1801 Energy

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1950718 1950719 Original: M1600181002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES											
Methyl tert-butyl Ether (MTBE)	ug/L	0	20	3.8	8.5	19	43	70-130	76	30	J4
Benzene	ug/L	0	20	4.2	8.6	21	43	70-130	69	30	J4
Toluene	ug/L	0	20	4.5	9.9	23	50	70-130	74	30	J4
Ethylbenzene	ug/L	0	20	3.4	7.7	17	39	70-130	79	30	J4
Xylene (Total)	ug/L	0	60	10	23	17	39	70-130	79	30	
1,2-Dichloroethane-d4 (S)	%	111				111	100	70-130	11	30	
Toluene-d8 (S)	%	115				121	115	70-130	5	30	
Bromofluorobenzene (S)	%	100				101	100	70-130	1	30	

QC Batch: MSVm/1011 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B Prepared: 01/15/2016 23:33

Associated Lab Samples: M1600181001, M1600181002, M1600181003, M1600181004, M1600181005, M1600181006, M1600181007,

METHOD BLANK: 1950716

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Methyl tert-butyl Ether (MTBE)	ug/L	0.24	0.24	U
Benzene	ug/L	0.36	0.36	U
Toluene	ug/L	0.49	0.49	U
Ethylbenzene	ug/L	0.38	0.38	U
Xylene (Total)	ug/L	1.1	1.1	U
1,2-Dichloroethane-d4 (S)	%	120	77-125	
Toluene-d8 (S)	%	120	80-121	
Bromofluorobenzene (S)	%	104	80-129	

LABORATORY CONTROL SAMPLE: 1950717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
VOLATILES						
Methyl tert-butyl Ether (MTBE)	ug/L	20	22	110	70-130	

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QUALITY CONTROL DATA

Workorder: M1600181 Shell-First Coast #1801 Energy

LABORATORY CONTROL SAMPLE: 1950717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	20	98	70-130	
Toluene	ug/L	20	20	101	70-130	
Ethylbenzene	ug/L	20	17	83	70-130	
Xylene (Total)	ug/L	60	53	88	70-130	
1,2-Dichloroethane-d4 (S)	%			111	70-130	
Toluene-d8 (S)	%			108	70-130	
Bromofluorobenzene (S)	%			108	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1950718 1950719 Original: M1600181002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES											
Methyl tert-butyl Ether (MTBE)	ug/L	0	20	3.8	8.5	19	43	70-130	76	30	J4
Benzene	ug/L	0	20	4.2	8.6	21	43	70-130	69	30	J4
Toluene	ug/L	0	20	4.5	9.9	23	50	70-130	74	30	J4
Ethylbenzene	ug/L	0	20	3.4	7.7	17	39	70-130	79	30	J4
Xylene (Total)	ug/L	0	60	10	23	17	39	70-130	79	30	
1,2-Dichloroethane-d4 (S)	%	111				111	100	70-130	11	30	
Toluene-d8 (S)	%	115				121	115	70-130	5	30	
Bromofluorobenzene (S)	%	100				101	100	70-130	1	30	

QC Batch: MSVm/1011 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B Prepared: 01/16/2016 00:04

Associated Lab Samples: M1600181001, M1600181002, M1600181003, M1600181004, M1600181005, M1600181006, M1600181007,

METHOD BLANK: 1950716

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Methyl tert-butyl Ether (MTBE)	ug/L	0.24	0.24	U
Benzene	ug/L	0.36	0.36	U
Toluene	ug/L	0.49	0.49	U
Ethylbenzene	ug/L	0.38	0.38	U
Xylene (Total)	ug/L	1.1	1.1	U
1,2-Dichloroethane-d4 (S)	%	120	77-125	
Toluene-d8 (S)	%	120	80-121	

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QUALITY CONTROL DATA

Workorder: M1600181 Shell-First Coast #1801 Energy

METHOD BLANK: 1950716

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Bromofluorobenzene (S)	%	104	80-129	

LABORATORY CONTROL SAMPLE: 1950717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
VOLATILES						
Methyl tert-butyl Ether (MTBE)	ug/L	20	22	110	70-130	
Benzene	ug/L	20	20	98	70-130	
Toluene	ug/L	20	20	101	70-130	
Ethylbenzene	ug/L	20	17	83	70-130	
Xylene (Total)	ug/L	60	53	88	70-130	
1,2-Dichloroethane-d4 (S)	%			111	70-130	
Toluene-d8 (S)	%			108	70-130	
Bromofluorobenzene (S)	%			108	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1950718 1950719 Original: M1600181002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES											
Methyl tert-butyl Ether (MTBE)	ug/L	0	20	3.8	8.5	19	43	70-130	76	30	J4
Benzene	ug/L	0	20	4.2	8.6	21	43	70-130	69	30	J4
Toluene	ug/L	0	20	4.5	9.9	23	50	70-130	74	30	J4
Ethylbenzene	ug/L	0	20	3.4	7.7	17	39	70-130	79	30	J4
Xylene (Total)	ug/L	0	60	10	23	17	39	70-130	79	30	
1,2-Dichloroethane-d4 (S)	%	111				111	100	70-130	11	30	
Toluene-d8 (S)	%	115				121	115	70-130	5	30	
Bromofluorobenzene (S)	%	100				101	100	70-130	1	30	

QC Batch: MSVm/1013 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B Prepared: 01/16/2016 01:36

Associated Lab Samples: M1600181011, M1600181012, M1600181013, M1600181014

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QUALITY CONTROL DATA

Workorder: M1600181 Shell-First Coast #1801 Energy

METHOD BLANK: 1950880

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Methyl tert-butyl Ether (MTBE)	ug/L	0.24	0.24	U
Benzene	ug/L	0.36	0.36	U
Toluene	ug/L	0.49	0.49	U
Ethylbenzene	ug/L	0.38	0.38	U
Xylene (Total)	ug/L	1.1	1.1	U
1,2-Dichloroethane-d4 (S)	%	100	77-125	
Toluene-d8 (S)	%	100	80-121	
Bromofluorobenzene (S)	%	101	80-129	

LABORATORY CONTROL SAMPLE: 1950881

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
VOLATILES						
Methyl tert-butyl Ether (MTBE)	ug/L	20	22	109	70-130	
Benzene	ug/L	20	20	101	70-130	
Toluene	ug/L	20	22	108	70-130	
Ethylbenzene	ug/L	20	18	89	70-130	
Xylene (Total)	ug/L	60	56	93	70-130	
1,2-Dichloroethane-d4 (S)	%			105	70-130	
Toluene-d8 (S)	%			109	70-130	
Bromofluorobenzene (S)	%			103	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1950882 1950883 Original: M1600185005

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES											
Methyl tert-butyl Ether (MTBE)	ug/L	0	20	24	23	119	113	70-130	6	30	
Benzene	ug/L	0	20	24	20	122	98	70-130	22	30	
Toluene	ug/L	0	20	25	21	125	106	70-130	16	30	
Ethylbenzene	ug/L	0	20	21	17	106	83	70-130	25	30	
Xylene (Total)	ug/L	0	60	65	51	108	86	70-130	23	30	
1,2-Dichloroethane-d4 (S)	%					102	102	70-130	0	30	
Toluene-d8 (S)	%					106	106	70-130	0	30	
Bromofluorobenzene (S)	%					112	108	70-130	4	30	

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QUALITY CONTROL DATA

Workorder: M1600181 Shell-First Coast #1801 Energy

QC Batch: MSVm/1013 Analysis Method: SW-846 8260B
QC Batch Method: SW-846 5030B Prepared: 01/16/2016 02:38
Associated Lab Samples: M1600181011, M1600181012, M1600181013, M1600181014

METHOD BLANK: 1950880

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Methyl tert-butyl Ether (MTBE)	ug/L	0.24	0.24	U
Benzene	ug/L	0.36	0.36	U
Toluene	ug/L	0.49	0.49	U
Ethylbenzene	ug/L	0.38	0.38	U
Xylene (Total)	ug/L	1.1	1.1	U
1,2-Dichloroethane-d4 (S)	%	100	77-125	
Toluene-d8 (S)	%	100	80-121	
Bromofluorobenzene (S)	%	101	80-129	

LABORATORY CONTROL SAMPLE: 1950881

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
VOLATILES						
Methyl tert-butyl Ether (MTBE)	ug/L	20	22	109	70-130	
Benzene	ug/L	20	20	101	70-130	
Toluene	ug/L	20	22	108	70-130	
Ethylbenzene	ug/L	20	18	89	70-130	
Xylene (Total)	ug/L	60	56	93	70-130	
1,2-Dichloroethane-d4 (S)	%			105	70-130	
Toluene-d8 (S)	%			109	70-130	
Bromofluorobenzene (S)	%			103	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1950882 1950883 Original: M1600185005

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES											
Methyl tert-butyl Ether (MTBE)	ug/L	0	20	24	23	119	113	70-130	6	30	

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QUALITY CONTROL DATA

Workorder: M1600181 Shell-First Coast #1801 Energy

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1950882 1950883 Original: M1600185005

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Benzene	ug/L	0	20	24	20	122	98	70-130	22	30	
Toluene	ug/L	0	20	25	21	125	106	70-130	16	30	
Ethylbenzene	ug/L	0	20	21	17	106	83	70-130	25	30	
Xylene (Total)	ug/L	0	60	65	51	108	86	70-130	23	30	
1,2-Dichloroethane-d4 (S)	%					102	102	70-130	0	30	
Toluene-d8 (S)	%					106	106	70-130	0	30	
Bromofluorobenzene (S)	%					112	108	70-130	4	30	

QC Batch: MSVm/1013 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B Prepared: 01/16/2016 12:22

Associated Lab Samples: M1600181011, M1600181012, M1600181013, M1600181014

METHOD BLANK: 1950880

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Methyl tert-butyl Ether (MTBE)	ug/L	0.24	0.24	U
Benzene	ug/L	0.36	0.36	U
Toluene	ug/L	0.49	0.49	U
Ethylbenzene	ug/L	0.38	0.38	U
Xylene (Total)	ug/L	1.1	1.1	U
1,2-Dichloroethane-d4 (S)	%	100	77-125	
Toluene-d8 (S)	%	100	80-121	
Bromofluorobenzene (S)	%	101	80-129	

LABORATORY CONTROL SAMPLE: 1950881

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
VOLATILES						
Methyl tert-butyl Ether (MTBE)	ug/L	20	22	109	70-130	
Benzene	ug/L	20	20	101	70-130	
Toluene	ug/L	20	22	108	70-130	
Ethylbenzene	ug/L	20	18	89	70-130	
Xylene (Total)	ug/L	60	56	93	70-130	
1,2-Dichloroethane-d4 (S)	%			105	70-130	
Toluene-d8 (S)	%			109	70-130	

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QUALITY CONTROL DATA

Workorder: M1600181 Shell-First Coast #1801 Energy

LABORATORY CONTROL SAMPLE: 1950881

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromofluorobenzene (S)	%			103	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1950882 1950883 Original: M1600185005

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES											
Methyl tert-butyl Ether (MTBE)	ug/L	0	20	24	23	119	113	70-130	6	30	
Benzene	ug/L	0	20	24	20	122	98	70-130	22	30	
Toluene	ug/L	0	20	25	21	125	106	70-130	16	30	
Ethylbenzene	ug/L	0	20	21	17	106	83	70-130	25	30	
Xylene (Total)	ug/L	0	60	65	51	108	86	70-130	23	30	
1,2-Dichloroethane-d4 (S)	%					102	102	70-130	0	30	
Toluene-d8 (S)	%					106	106	70-130	0	30	
Bromofluorobenzene (S)	%					112	108	70-130	4	30	

QC Batch: MSVm/1013 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B Prepared: 01/16/2016 12:53

Associated Lab Samples: M1600181011, M1600181012, M1600181013, M1600181014

METHOD BLANK: 1950880

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Methyl tert-butyl Ether (MTBE)	ug/L	0.24	0.24	U
Benzene	ug/L	0.36	0.36	U
Toluene	ug/L	0.49	0.49	U
Ethylbenzene	ug/L	0.38	0.38	U
Xylene (Total)	ug/L	1.1	1.1	U
1,2-Dichloroethane-d4 (S)	%	100	77-125	
Toluene-d8 (S)	%	100	80-121	
Bromofluorobenzene (S)	%	101	80-129	

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QUALITY CONTROL DATA

Workorder: M1600181 Shell-First Coast #1801 Energy

LABORATORY CONTROL SAMPLE: 1950881

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
VOLATILES						
Methyl tert-butyl Ether (MTBE)	ug/L	20	22	109	70-130	
Benzene	ug/L	20	20	101	70-130	
Toluene	ug/L	20	22	108	70-130	
Ethylbenzene	ug/L	20	18	89	70-130	
Xylene (Total)	ug/L	60	56	93	70-130	
1,2-Dichloroethane-d4 (S)	%			105	70-130	
Toluene-d8 (S)	%			109	70-130	
Bromofluorobenzene (S)	%			103	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1950882 1950883 Original: M1600185005

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES											
Methyl tert-butyl Ether (MTBE)	ug/L	0	20	24	23	119	113	70-130	6	30	
Benzene	ug/L	0	20	24	20	122	98	70-130	22	30	
Toluene	ug/L	0	20	25	21	125	106	70-130	16	30	
Ethylbenzene	ug/L	0	20	21	17	106	83	70-130	25	30	
Xylene (Total)	ug/L	0	60	65	51	108	86	70-130	23	30	
1,2-Dichloroethane-d4 (S)	%					102	102	70-130	0	30	
Toluene-d8 (S)	%					106	106	70-130	0	30	
Bromofluorobenzene (S)	%					112	108	70-130	4	30	

QUALITY CONTROL DATA QUALIFIERS

Workorder: M1600181 Shell-First Coast #1801 Energy

QUALITY CONTROL PARAMETER QUALIFIERS

U 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.

J4 Estimated Result

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: M1600181 Shell-First Coast #1801 Energy

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
M1600181001	OW-17	SW-846 3510C	EXTm/1034	SW-846 8270C (SIM)	MSSm/1017
M1600181002	OW-15	SW-846 3510C	EXTm/1034	SW-846 8270C (SIM)	MSSm/1017
M1600181003	MW-24	SW-846 3510C	EXTm/1034	SW-846 8270C (SIM)	MSSm/1017
M1600181004	MW-25	SW-846 3510C	EXTm/1034	SW-846 8270C (SIM)	MSSm/1017
M1600181005	MW-27I	SW-846 3510C	EXTm/1034	SW-846 8270C (SIM)	MSSm/1017
M1600181006	MW-30D	SW-846 3510C	EXTm/1034	SW-846 8270C (SIM)	MSSm/1017
M1600181007	MW-31D	SW-846 3510C	EXTm/1034	SW-846 8270C (SIM)	MSSm/1017
M1600181008	MW-33D	SW-846 3510C	EXTm/1034	SW-846 8270C (SIM)	MSSm/1017
M1600181009	MW-35I	SW-846 3510C	EXTm/1034	SW-846 8270C (SIM)	MSSm/1017
M1600181010	MW-34I	SW-846 3510C	EXTm/1034	SW-846 8270C (SIM)	MSSm/1017
M1600181011	OW-16	SW-846 3510C	EXTm/1034	SW-846 8270C (SIM)	MSSm/1017
M1600181012	MW-38I	SW-846 3510C	EXTm/1034	SW-846 8270C (SIM)	MSSm/1017
M1600181013	MW-23	SW-846 3510C	EXTm/1034	SW-846 8270C (SIM)	MSSm/1017
M1600181014	MW-26I	SW-846 3510C	EXTm/1034	SW-846 8270C (SIM)	MSSm/1017
M1600181001	OW-17	SW-846 5030B	MSVm/1011	SW-846 8260B	MSVm/1012
M1600181002	OW-15	SW-846 5030B	MSVm/1011	SW-846 8260B	MSVm/1012
M1600181003	MW-24	SW-846 5030B	MSVm/1011	SW-846 8260B	MSVm/1012
M1600181004	MW-25	SW-846 5030B	MSVm/1011	SW-846 8260B	MSVm/1012
M1600181005	MW-27I	SW-846 5030B	MSVm/1011	SW-846 8260B	MSVm/1012
M1600181006	MW-30D	SW-846 5030B	MSVm/1011	SW-846 8260B	MSVm/1012
M1600181007	MW-31D	SW-846 5030B	MSVm/1011	SW-846 8260B	MSVm/1012
M1600181008	MW-33D	SW-846 5030B	MSVm/1011	SW-846 8260B	MSVm/1012
M1600181009	MW-35I	SW-846 5030B	MSVm/1011	SW-846 8260B	MSVm/1012
M1600181010	MW-34I	SW-846 5030B	MSVm/1011	SW-846 8260B	MSVm/1012
M1600181011	OW-16	SW-846 5030B	MSVm/1013	SW-846 8260B	MSVm/1014
M1600181012	MW-38I	SW-846 5030B	MSVm/1013	SW-846 8260B	MSVm/1014
M1600181013	MW-23	SW-846 5030B	MSVm/1013	SW-846 8260B	MSVm/1014
M1600181014	MW-26I	SW-846 5030B	MSVm/1013	SW-846 8260B	MSVm/1014

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CERTIFICATE OF ANALYSIS

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Advanced
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☐ Jacksonville: 6681 Southpoint Pkwy. • Jacksonville, FL 32216 •
☐ Miramar: 10200 USA Today Way • Miramar, FL 33025 • 954.889.
☐ Tallahassee: 2639 North Monroe Street, Suite D • Tallahassee,
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9

M1600181

Client Name: Creative Environmental	Project Name: Shell-First Coast Energy #1801
Address: 700 Desoto Ave.	P.O. Number or Project Number: ATC-5022A
Brooksville, FL 34601	FDEP Facility No: 8731807
Phone: 352-796-3374	Project Address: 390 S. Powerline Rd.
FAX: 352-796-2449	Deerfield Beach, FL
Contact: Erik Dankert	Special Instructions:
Sampled By: Craig & Colton	
Turn Around Time: ☑ STANDARD ☐ RUSH	
Page: 1 of 2	☑ ADaPT ☐ EQuIS ☐ Other

SAMPLE ID	SAMPLE DESCRIPTION	Grab / Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	ANALYSIS REQUIRED: 8260B BTEX-MTBE	8260B BTEX-MTBE	8270 PAHs	LABORATORY I.D. NUMBER
	BOTTLE SIZE & TYPE							40mL CG	40mL CG	1L AG	
OW-17		G	1-14-16	10:37	GW	4	H	X	X	X	001
OW-15		↓	↓	10:09	↓	↓	↓	↓	↓	↓	002
MW-24				09:16 ~~08:43~~							003
MW-25				11:04							004
MW-27I				09:25							005
MW-30D				08:43							006
MW-31D				08:38							007
MW-33D				09:55							008
MW-35I		↓	↓	10:35	↓	↓	↓	↓	↓	↓	009
					↓		↓	↓	↓	↓	

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge **Preservation Code:** I = Ice H=(HCl) S = (H_2SO_4) N = (HNO_3) T = (Sodium Thiosulfate)

Received on Ice ☑ Yes ☐ No ☑ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received 2.1 @ in degrees celcius

DCN: AD-051 Form last revised 04/30/2015 Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	G. Hall	1-14-16	11:22		1/14/16	11:22
2						
3						
4						

FOR DRINKING WATER USE:

PWS ID:

Contact Person: Phone:

Supplier of Water:

Site-Address:

Wednesday, January 20, 2016 11:11:11 AM
Page 31 of 32

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Environmental Laboratories, Inc.

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☐ Gainesville: 4965 SW 41st Blvd. • Gainesville, FL 32608 • 352.
☐ Jacksonville: 6681 Southpoint Pkwy. • Jacksonville, FL 32216
☐ Miramar: 10200 USA Today Way • Miramar, FL 33025 • 954.88
☐ Tallahassee: 2639 North Monroe Street, Suite D • Tallahassee
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.

M1600181

Client Name: Creative Environmental	Project Name: Shell - First Coast Energy #1801
Address: 700 Desoto Ave.	P.O. Number or Project Number: ATC-022A
Brooksville, FL	FDEP Facility No: 8731807
Phone: 352-796-3374	Project Address: 3905 Powerline Rd.
FAX: 352-796-2449	Deerfield Beach, FL
Contact: Erik Dankert	Special Instructions:
Sampled By: Craig & Colton	
Turn Around Time: ☐STANDARD ☐RUSH	
Page: 2 of 2	☐FADaPT ☐EQuIS ☐Other

SAMPLE ID	SAMPLE DESCRIPTION	Grab / Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	ANALYSIS REQUIRED: BOTTLE SIZE & TYPE	40mL CG	1L AG	40mL CG							LABORATORY I.D. NUMBER
									8260B BTEX-MTBE	8270 PAHs	8260B BTEX-MTBE							
									H	1	1							
MW-34I		G	1-13-16	15:39	GW	4			X	X	X							010
OW-16				16:28														011
MW-38I				15:21														012
MW-23				15:52														013
MW-26I				16:24														014

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge **Preservation Code:** I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☑Yes ☐No ☑Temp taken from sample ☐Temp from blank ☐Where required, pH checked Temperature when received 2.6 (in degrees celcius)

DCN: AD-051 Form last revised 04/30/2015 Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A (M: 3A) S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[signature]	1-14-16	11:22	[signature]	1/14/16	11:22
2						
3						
4						

FOR DRINKING WATER USE:

PWS ID:

Contact Person: Phone:

Supplier of Water:

Site-Address:

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APPENDIX C

CONTAMINANT TREND GRAPHS

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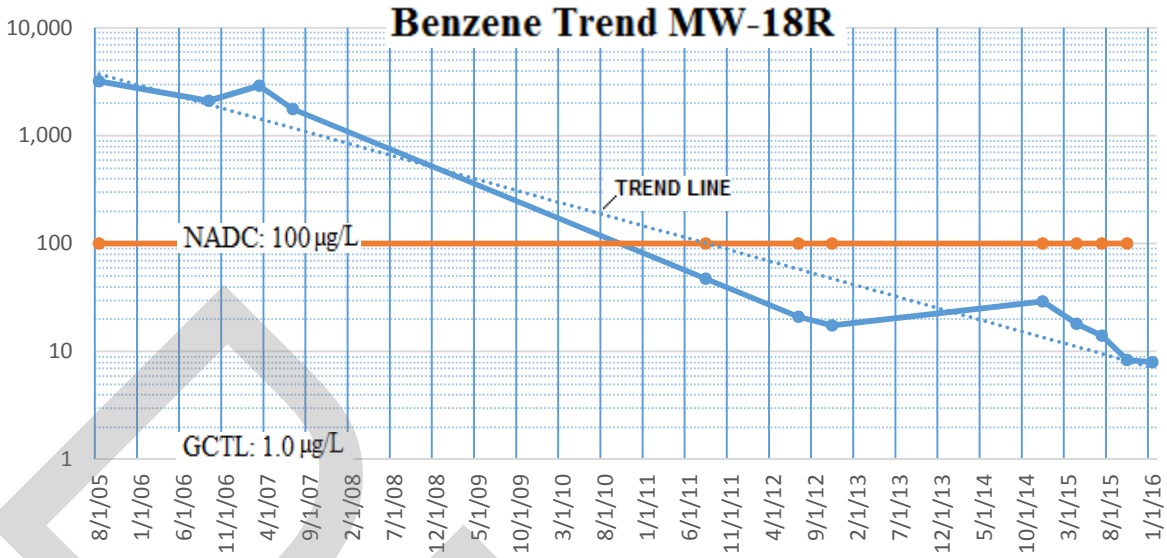
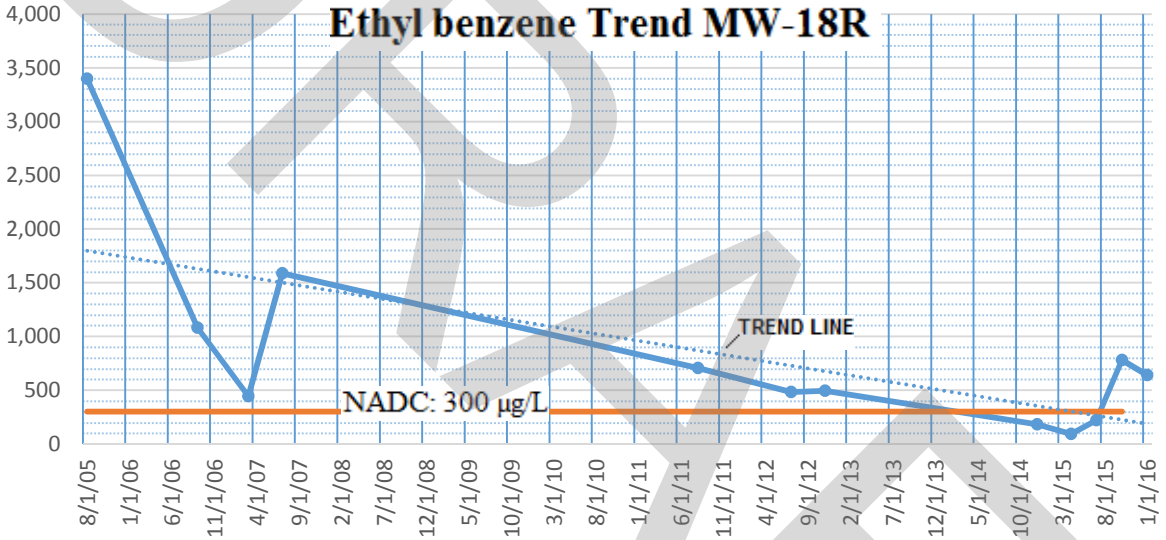
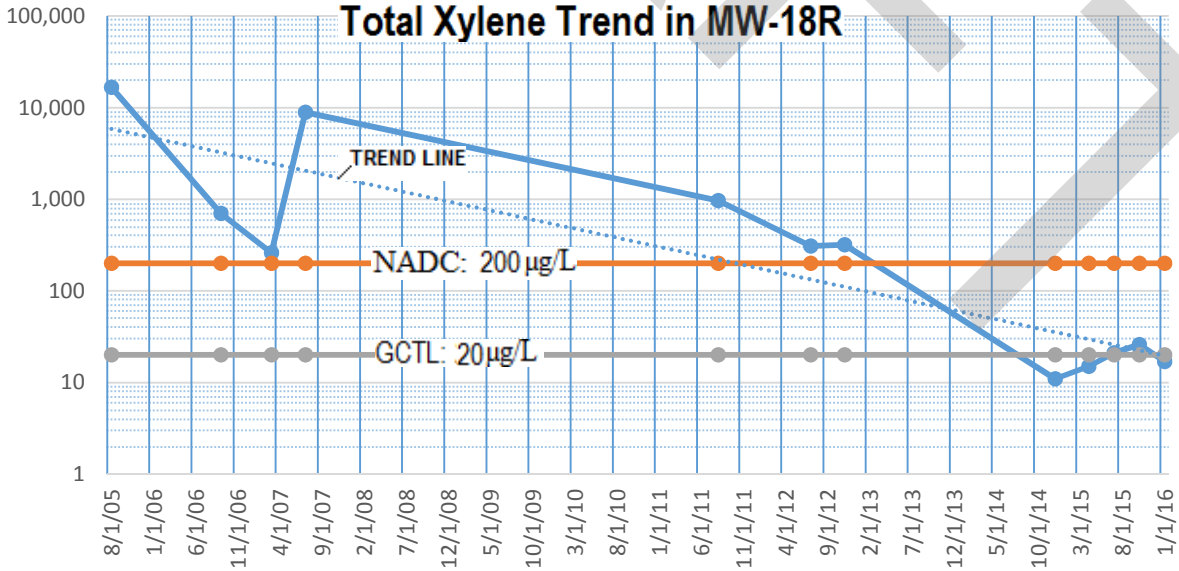
Tel: 352.796.3374 ● Fax: 352.796.2449
info@creativeenvironmental.com


Benzene Trend MW-18R
10,000
1,000
100
10
1
TREND LINE
NADC: 100 µg/L
GCTL: 1.0 µg/L
8/1/05
1/1/06
6/1/06
11/1/06
4/1/07
9/1/07
2/1/08
7/1/08
12/1/08
5/1/09
10/1/09
3/1/10
8/1/10
1/1/11
6/1/11
11/1/11
4/1/12
9/1/12
2/1/13
7/1/13
12/1/13
5/1/14
10/1/14
3/1/15
8/1/15
1/1/16


Ethyl benzene Trend MW-18R
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
0
TREND LINE
NADC: 300 µg/L
8/1/05
1/1/06
6/1/06
11/1/06
4/1/07
9/1/07
2/1/08
7/1/08
12/1/08
5/1/09
10/1/09
3/1/10
8/1/10
1/1/11
6/1/11
11/1/11
4/1/12
9/1/12
2/1/13
7/1/13
12/1/13
5/1/14
10/1/14
3/1/15
8/1/15
1/1/16


Total Xylene Trend in MW-18R
100,000
10,000
1,000
100
10
1
TREND LINE
NADC: 200 µg/L
GCTL: 20 µg/L
8/1/05
1/1/06
6/1/06
11/1/06
4/1/07
9/1/07
2/1/08
7/1/08
12/1/08
5/1/09
10/1/09
3/1/10
8/1/10
1/1/11
6/1/11
11/1/11
4/1/12
9/1/12
2/1/13
7/1/13
12/1/13
5/1/14
10/1/14
3/1/15
8/1/15
1/1/16

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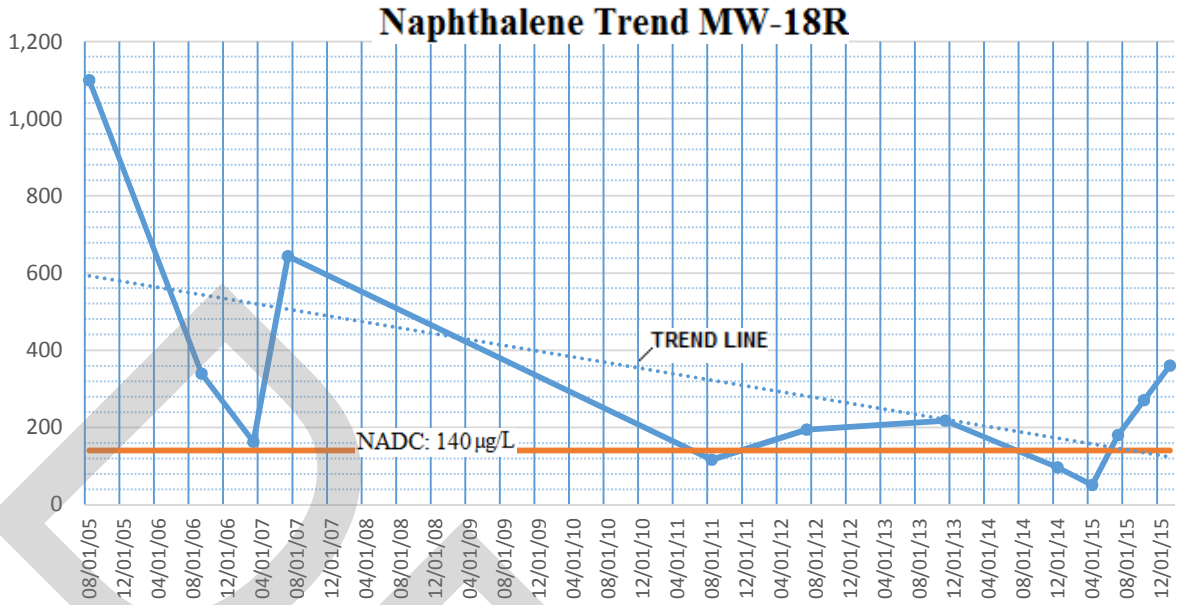
Naphthalene Trend MW-18R
1,200
1,000
800
600
400
200
0
TREND LINE
NADC: 140 µg/L
08/01/05
12/01/05
04/01/06
08/01/06
12/01/06
04/01/07
08/01/07
12/01/07
04/01/08
08/01/08
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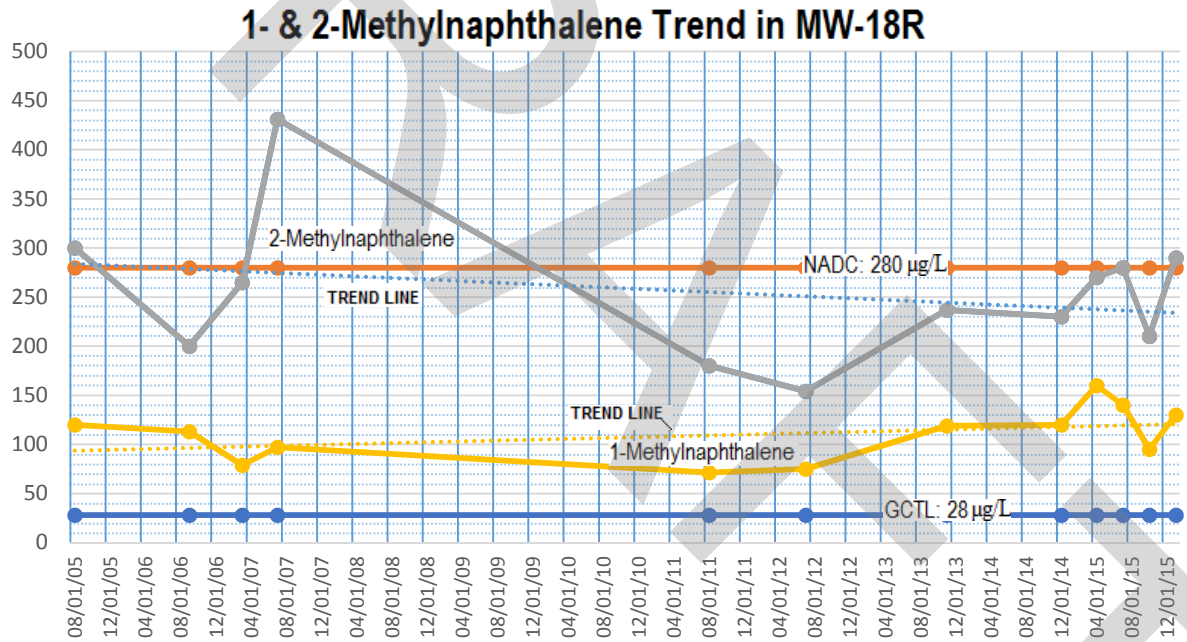
04/01/15
08/01/15
12/01/15


1- & 2-Methylnaphthalene Trend in MW-18R
500
450
400
350
300
250
200
150
100
50
0
2-Methylnaphthalene
NADC: 280 µg/L
TREND LINE
TREND LINE
1-Methylnaphthalene
GCTL: 28 µg/L
08/01/05
12/01/05
04/01/06
08/01/06
12/01/06
04/01/07
08/01/07
12/01/07
04/01/08
08/01/08
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12/01/13
04/01/14
08/01/14
12/01/14
04/01/15
08/01/15
12/01/15

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Attachment B

Schedule of Pay Items

Petroleum Contamination Site Response Action Services
SCHEDULE OF PAY ITEMS INVOICE RATE SHEET

Facility Name: First Coast Energy #1801
FDEP Fac.ID #: 068731807
Region: South
Site Manager Name: Mathew Theisen
Site Manager Phone: (954) 519-0323
Site Manager email: mtheisen@broward.org

CID #: 01396
Contractor Name: Creative Environmental Contracting, JV, LLC
Owner Cost Share: 0.0%

Contract #: GC847
Retainage: 10%
Total Extended Price: $ 49,836.66

			PO Rate Sheet			Previously Invoiced	This Invoice		Balance
PAY ITEM	DESCRIPTION	UNIT OF MEASURE	TASK UNITS	VENDOR PAY ITEM PRICE	TOTAL EXTENDED PRICE	UNITS	UNITS	EXTENDED PRICE	UNITS
Task 1									
1-1.	File Review	Per Review	1	$ 575.70	$ 575.70	1	0	$ -	0
1-2.	Site Health & Safety Plan	Per Site	1	$ 338.35	$ 338.35	1	0	$ -	0
		SUBTOTAL			$ 914.05	$ 914.05		$ -	$ -
Task 2									
3-2.	Mobilization, Light Duty Vehicle (car or 1/2 ton truck) - > 100 miles each way	Per Round Trip	2	$ 717.50	$ 1,435.00	2	0	$ -	0
4-1.	Per Diem - For Travel > 1 Consecutive day (prorated in quarter day increments)-Current State Rate	Per Person, Per Day	6	$ 80.00	$ 480.00	5.25	0	$ -	0.75
8-1.	Monitoring Well Sampling with Water Level, ≤ 100 foot depth	Per Well	31	$ 202.54	$ 6,278.74	31	0	$ -	0
9-27.	Water, BTEX + MTBE (EPA 602, EPA 624, EPA 8021 or EPA 8260)	Per Sample	31	$ 44.44	$ 1,377.64	31	0	$ -	0
9-30.	Water, Polycyclic Aromatic Hydrocarbons, including 1-methylnaphthalene + 2-methylnaphthalene (EPA 610 [HPLC], EPA 625, EPA 8270 or EPA 8310)	Per Sample	31	$ 99.99	$ 3,099.69	31	0	$ -	0
12-13.	Transport and Disposal of Petroleum Contact Water (includes drum)	Per Drum	1	$ 190.75	$ 190.75	0	0	$ -	1
19-7.	Natural Attenuation or Post RA Monitoring Report, Quarterly or Non-Annual	Per Report	1	$ 545.40	$ 545.40	1	0	$ -	0
		SUBTOTAL			$ 13,407.22	$ 13,156.47		$ -	$ 250.75
Task 5									
3-2.	Mobilization, Light Duty Vehicle (car or 1/2 ton truck) - > 100 miles each way	Per Round Trip	1	$ 717.50	$ 717.50	1	0	$ -	0
4-1.	Per Diem - For Travel > 1 Consecutive day (prorated in quarter day increments)-Current State Rate	Per Person, Per Day	4	$ 80.00	$ 320.00	4	0	$ -	0
8-1.	Monitoring Well Sampling with Water Level, ≤ 100 foot depth	Per Well	17	$ 202.54	$ 3,443.18	17	0	$ -	0
9-27.	Water, BTEX + MTBE (EPA 602, EPA 624, EPA 8021 or EPA 8260)	Per Sample	17	$ 44.44	$ 755.48	17	0	$ -	0
9-30.	Water, Polycyclic Aromatic Hydrocarbons, including 1-methylnaphthalene + 2-methylnaphthalene (EPA 610 [HPLC], EPA 625, EPA 8270 or EPA 8310)	Per Sample	17	$ 99.99	$ 1,699.83	17	0	$ -	0
19-24.	Remedial Action Interim Report	Per Report	1	$ 545.40	$ 545.40	1	0	$ -	0
		SUBTOTAL			$ 7,481.39	$ 7,481.39		$ -	$ -
Task 6									
3-2.	Mobilization, Light Duty Vehicle (car or 1/2 ton truck) - > 100 miles each way	Per Round Trip	1	$ 717.50	$ 717.50	1	0	$ -	0
4-1.	Per Diem - For Travel > 1 Consecutive day (prorated in quarter day increments)-Current State Rate	Per Person, Per Day	4	$ 80.00	$ 320.00	3.5	0	$ -	0.5
8-1.	Monitoring Well Sampling with Water Level, ≤ 100 foot depth	Per Well	17	$ 202.54	$ 3,443.18	17	0	$ -	0
9-27.	Water, BTEX + MTBE (EPA 602, EPA 624, EPA 8021 or EPA 8260)	Per Sample	17	$ 44.44	$ 755.48	17	0	$ -	0
9-30.	Water, Polycyclic Aromatic Hydrocarbons, including 1-methylnaphthalene + 2-methylnaphthalene (EPA 610 [HPLC], EPA 625, EPA 8270 or EPA 8310)	Per Sample	17	$ 99.99	$ 1,699.83	17	0	$ -	0
12-13.	Transport and Disposal of Petroleum Contact Water (includes drum)	Per Drum	1	$ 190.75	$ 190.75	0	0	$ -	1
19-24.	Remedial Action Interim Report	Per Report	1	$ 545.40	$ 545.40	1	0	$ -	0
		SUBTOTAL			$ 7,672.14	$ 7,441.39		$ -	$ 230.75
Task 7									

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Petroleum Contamination Site Response Action Services
SCHEDULE OF PAY ITEMS INVOICE RATE SHEET

			PO Rate Sheet			Previously Invoiced	This Invoice		Balance
PAY ITEM	DESCRIPTION	UNIT OF MEASURE	TASK UNITS	VENDOR PAY ITEM PRICE	TOTAL EXTENDED PRICE	UNITS	UNITS	EXTENDED PRICE	UNITS
3-2.	Mobilization, Light Duty Vehicle (car or 1/2 ton truck) - > 100 miles each way	Per Round Trip	1	$ 717.50	$ 717.50	1	0	$ -	0
4-1.	Per Diem - For Travel > 1 Consecutive day (prorated in quarter day increments)-Current State Rate	Per Person, Per Day	4	$ 80.00	$ 320.00	3.5	0	$ -	0.5
8-1.	Monitoring Well Sampling with Water Level, ≤ 100 foot depth	Per Well	17	$ 202.54	$ 3,443.18	17	0	$ -	0
9-27.	Water, BTEX + MTBE (EPA 602, EPA 624, EPA 8021 or EPA 8260)	Per Sample	17	$ 44.44	$ 755.48	17	0	$ -	0
9-30.	Water, Polycyclic Aromatic Hydrocarbons, including 1-methylnaphthalene + 2-methylnaphthalene (EPA 610 [HPLC], EPA 625, EPA 8270 or EPA 8310)	Per Sample	17	$ 99.99	$ 1,699.83	17	0	$ -	0
12-13.	Transport and Disposal of Petroleum Contact Water (includes drum)	Per Drum	1	$ 190.75	$ 190.75	0	0	$ -	1
19-24.	Remedial Action Interim Report	Per Report	1	$ 545.40	$ 545.40	1	0	$ -	0
		SUBTOTAL			$ 7,672.14	$ 7,441.39		$ -	$ 230.75
Task 8									
3-2.	Mobilization, Light Duty Vehicle (car or 1/2 ton truck) - > 100 miles each way	Per Round Trip	1	$ 717.50	$ 717.50	0	1	$ 717.50	0
4-1.	Per Diem - For Travel > 1 Consecutive day (prorated in quarter day increments)-Current State Rate	Per Person, Per Day	6	$ 80.00	$ 480.00		5	$ 400.00	1
8-1.	Monitoring Well Sampling with Water Level, ≤ 100 foot depth	Per Well	31	$ 202.54	$ 6,278.74	0	31	$ 6,278.74	0
9-27.	Water, BTEX + MTBE (EPA 602, EPA 624, EPA 8021 or EPA 8260)	Per Sample	31	$ 44.44	$ 1,377.64	0	31	$ 1,377.64	0
9-30.	Water, Polycyclic Aromatic Hydrocarbons, including 1-methylnaphthalene + 2-methylnaphthalene (EPA 610 [HPLC], EPA 625, EPA 8270 or EPA 8310)	Per Sample	31	$ 99.99	$ 3,099.69	0	31	$ 3,099.69	0
12-13.	Transport and Disposal of Petroleum Contact Water (includes drum)	Per Drum	1	$ 190.75	$ 190.75	0	0	$ -	1
19-24.	Remedial Action Interim Report	Per Report	1	$ 545.40	$ 545.40	0	1	$ 545.40	0
		SUBTOTAL			$ 12,689.72	$ -		$ 12,418.97	$ 270.75
		TOTAL			$ 49,836.66	$ 36,434.69		$ 12,418.97	$ 983.00
				Owner Cost Share:	$ -	$ -		$ -	$ -
				DEP Cost Share:	$ 49,836.66	$ 36,434.69		$ 12,418.97	$ 983.00
				Retainage:	$ 4,983.67	$ 3,643.47		$ 1,241.90	$ 98.30
				DEP Less Retainage:	$ 44,852.99	$ 32,791.22		$ 11,177.07	$ 884.70

Site Manager Approval: _____
Print Name

_____
Signature

_____
Date of Review Letter

SITE MANAGER MANUAL CORRECTIONS EXPLAINED

Pay Item Line Number	Explanation

DRAFT

Petroleum Contamination Site Response Action Services
SCHEDULE OF PAY ITEMS INVOICE RATE SHEET

			PO Rate Sheet			Previously Invoiced	This Invoice		Balance
PAY ITEM	DESCRIPTION	UNIT OF MEASURE	TASK UNITS	VENDOR PAY ITEM PRICE	TOTAL EXTENDED PRICE	UNITS	UNITS	EXTENDED PRICE	UNITS

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Attachment C

Per Diem Vouchers



Quality Suites Property FL258 (FL258)
1040 E. Newport Center Dr.
Deerfield Beach, FL 33442
(954) 570-8887
GM.FL258@choicehotels.com

Account: 438203154
Date: 1/14/16
Room: 313 BAR
Arrival Date: 1/12/16
Departure Date: 1/14/16
Check In Time: 1/12/16 5:14 PM
Check Out Time: 1/14/16 7:21 AM
Rewards Program ID:
You were checked out by: mmorea
You were checked in by: dmclea
Total Balance Due: 0.00

Leach, Craig
4429 TIOGA AVE
0
Spring Hill, FL 34608

Post Date	Description	Comment	Amount
1/12/16	Room Charge	#313 Leach, Craig	110.49
1/12/16	State Tax		6.63
1/12/16	Occupancy Tax		5.52
1/13/16	Room Charge	#313 Leach, Craig	110.49
1/13/16	State Tax		6.63
1/13/16	Occupancy Tax		5.52
1/14/16	Visa Payment		(245.28)
		XXXXXXXXXXXX9500	

Folio Summary 1/12/16 - 1/14/16

Room Charge	220.98
State Tax	13.26
Occupancy Tax	11.04
Visa Payment	(245.28)
Balance Due:	**0.00**

This rate is eligible for partner rewards. If this rate is changed, you may no longer be entitled to partner rewards.

I agree to pay the above total charge amount according to the card issuer agreement.

X_____

CHOICEprivileges

You could be earning free nights and other great rewards. Join Choice Privileges today, at www.choiceprivileges.com.

Thank you for your stay. Visit ChoiceHotels.com/VerifiedReviews to post your comments about your recent experience (Click the 'Write a Review' button)

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DEP Voucher For Reimbursement of Travel Expenses

Traveler: Craig Leach (CES) | Org Code: | EO: | Module/OCA: | Grant:

Residence: | HQ: | Project: 06/8731807 | 08/14 Cat/Yr:

Preparer: Erik Dankerl, PG | Phone:

☐ P-Card User ☐ Registration Paid By State ☐ Meals Were Provided ☑ Non DEP Employee | Div/Bureau/Office/Park: FDEP - PRP Section 2

DATE	Travel Performed From Point of Origin to Destination	Purpose or Reason (Name of Conference)	Hour of Departure/Return xx:xx am/pm	Meals for Class A&B Travel	Per Diem	Lodging Expense	Air Fare	Car Rental	Map Mileage Claimed	Vicinity Mileage Claimed	Incidentals Amount	Incidentals Type
1/12/16	Brooksville - Deerfield - Hotel	Q4 GW Sampling	Depart 11:30 AM		60							
1/13/16	Hotel -Deerfield	Q4 GW Sampling			80							
1/14/16	Hotel -Deerfield - Brookville	Q4 GW Sampling	Return 16:30 PM		60							

* This travel has been determined to be agency mission critical. See attached for statement, determination and/or approvals.

Justify Car	Choose from the drop down box or type justification	Column Total	Column Total	Column Total	Column Total	Column Total	0 @ $0.445	Column Total	SUMMARY TOTAL
Benefits to State		0.00	200.00	0.00	0.00	0.00	0.00	0.00	200.00

I hereby certify or affirm that the above expenses were actually incurred by me as necessary traveling expenses in the performance of my official duties; attendance at a conference or convention was directly related to the official duties of the agency; any meals or lodging included in a conference or convention registration fee have been deducted from this travel claim; and that this claim is true and correct in every material matter and same conforms in every respect with the requirements of Section 112.061, Florida Statutes.

Pursuant to Section 112.061(3)(a), Florida Statutes, I hereby certify or affirm that to the best of my knowledge the above travel was on official business of the State of Florida and was performed for the purpose(s) stated above.

Less Cash Advance	$ 0.00
Less Pcard Charges	$ 0.00
Amount Due*	$ 200.00

* If negative, traveler owes DEP

Traveler's Title: Environmental Technician

Supervisor's Title: Senior Engineer

Date	Merchant/Vendor or Agency	Description	Amount
1/12/16	Creative Environmental Contracting JV LLC	4th Quarter GW Sampling	
1/13/16	Creative Environmental Contracting JV LLC	4th Quarter GW Sampling	
1/14/16	Creative Environmental Contracting JV LLC	4th Quarter GW Sampling	

Pick Up ☐ Phone #: | Mail ☐ Address:

Total State Paid/Pcard Charges $ 0.00

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DEP Voucher For Reimbursement of Travel Expenses

Traveler: Colton Isenhour (CES) | Org Code: | EO: | Module/OCA: | Grant:

Residence: | HQ: | Project: 06/8731807 | 08/14 Cat/Yr:

Preparer: Erik Dankerl, PG | Phone: 352-796-3374

☐ P-Card User ☐ Registration Paid By State ☐ Meals Were Provided ☑ Non DEP Employee | Div/Bureau/Office/Park: FDEP - PRP Section 2

DATE	Travel Performed From Point of Origin to Destination	Purpose or Reason (Name of Conference)	Hour of Departure/Return xx:xx am/pm	Meals for Class A&B Travel	Per Diem	Lodging Expense	Air Fare	Car Rental	Map Mileage Claimed	Vicinity Mileage Claimed	Incidentals Amount	Incidentals Type
1/12/16	Brooksville - Deerfield - Hotel	Q4 GW Sampling	Depart 11:30 AM		60							
1/13/16	Hotel -Deerfield	Q4 GW Sampling			80							
1/14/16	Hotel -Deerfield - Brookville	Q4 GW Sampling	Return 16:30 PM		60							

* This travel has been determined to be agency mission critical. See attached for statement, determination and/or approvals.

Justify Car / Benefits to State	Column Total	Column Total	Column Total	Column Total	Column Total	0 @ $0.445	Column Total	SUMMARY TOTAL
Choose from the drop down box or type justification	0.00	200.00	0.00	0.00	0.00	0.00	0.00	200.00

I hereby certify or affirm that the above expenses were actually incurred by me as necessary traveling expenses in the performance of my official duties; attendance at a conference or convention was directly related to the official duties of the agency; any meals or lodging included in a conference or convention registration fee have been deducted from this travel claim; and that this claim is true and correct in every material matter and same conforms in every respect with the requirements of Section 112.061, Florida Statutes.

Pursuant to Section 112.061(3)(a), Florida Statutes, I hereby certify or affirm that to the best of my knowledge the above travel was on official business of the State of Florida and was performed for the purpose(s) stated above.

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Less Pcard Charges	$ 0.00
Amount Due*	$ 200.00

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1/14/16	Creative Environmental Contracting JV LLC	4th Quarter GW Sampling	

Pick Up ☐ Phone #: Mail ☐ Address:

Total State Paid/Pcard Charges $ 0.00

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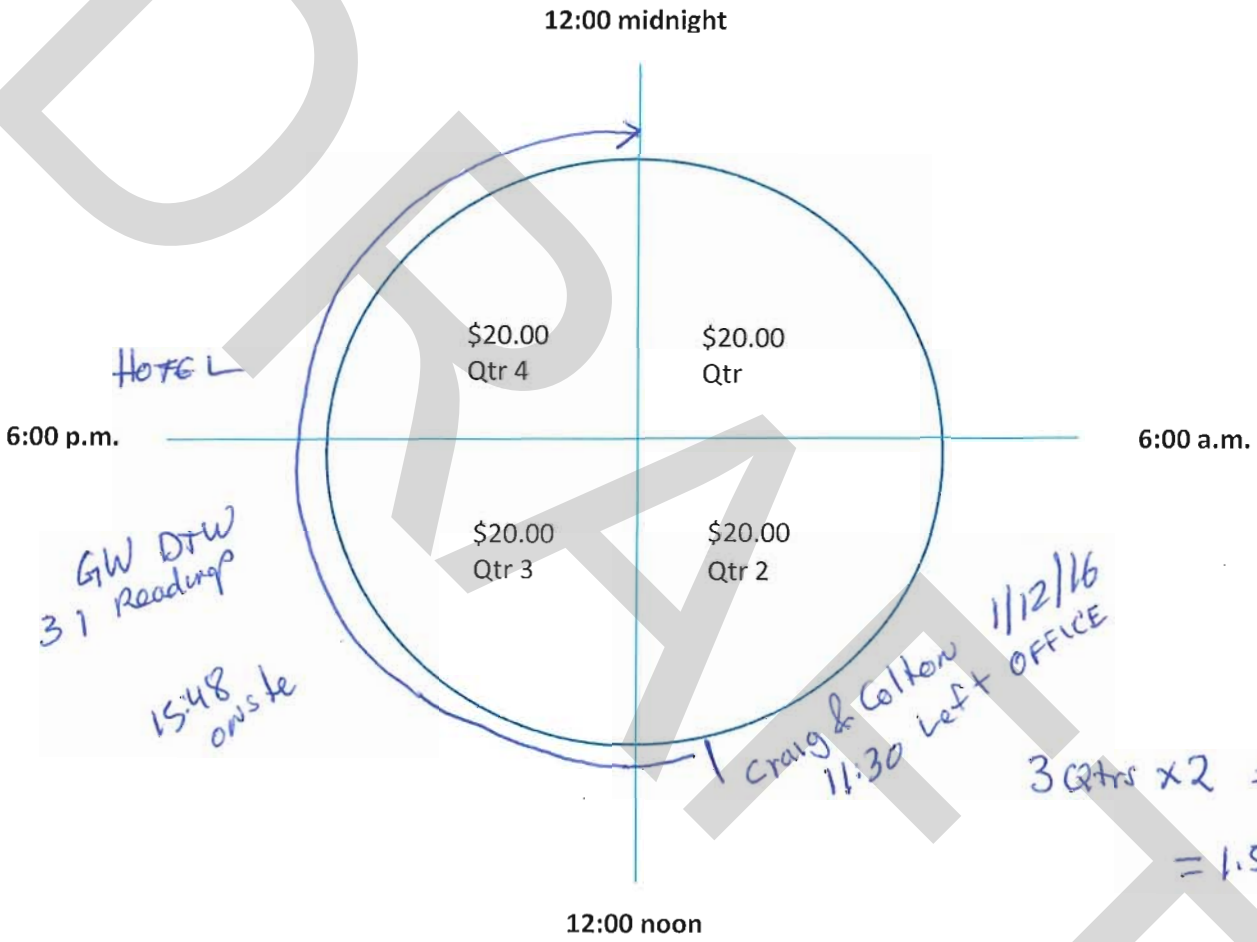
PETROLEUM RESTORATION PROGRAM

PER DIEM RATES

Daily Rate (When overnight travel occurs)..... $80.00

Quarterly Rate (One fourth of the daily rate)..... $20.00



HOTEL

GW DTW
31 Reading

15:48 onsite

Craig & Colton
11:30 Left OFFICE
1/12/16

3 Qtrs x 2 = 6 Qtrs
= 1.5 per Diem

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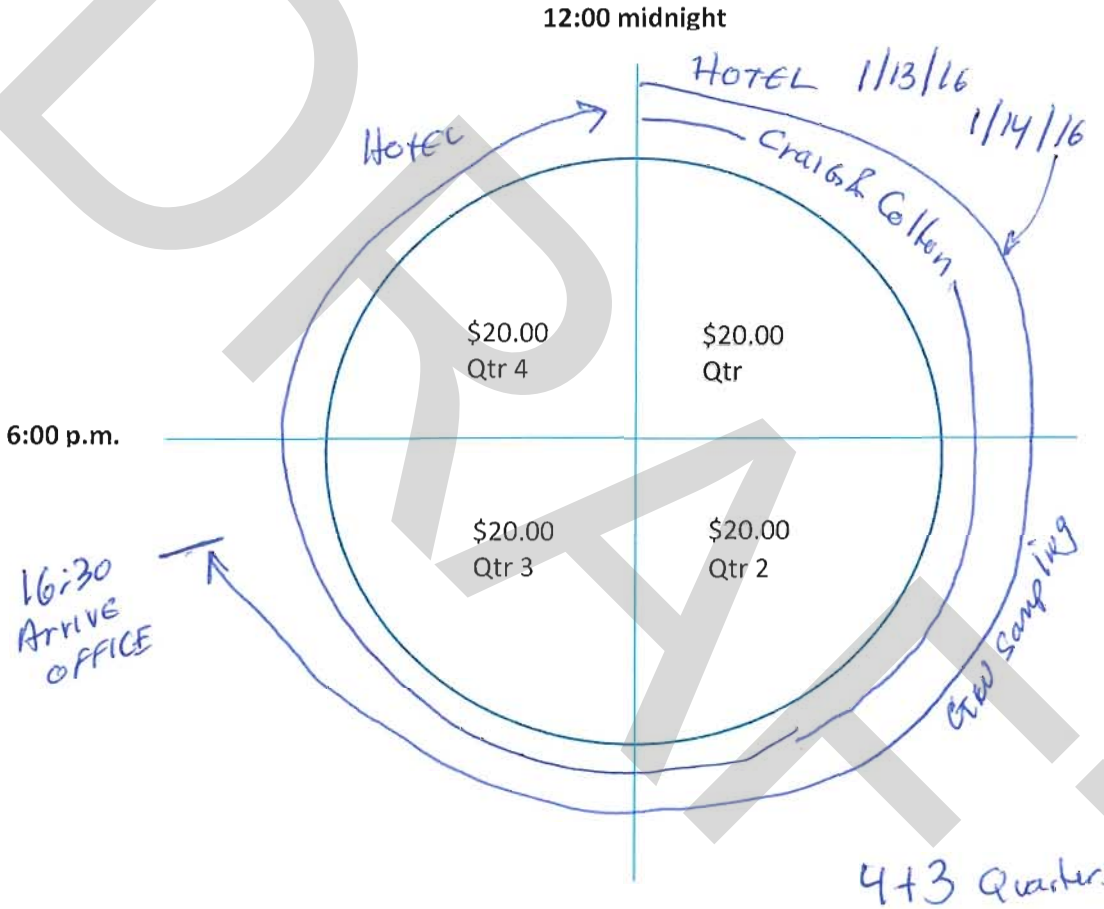
PETROLEUM RESTORATION PROGRAM

PER DIEM RATES

Daily Rate (When overnight travel occurs)..... $80.00

Quarterly Rate (One fourth of the daily rate)..... $20.00



4+3 Quarters x2 =
14 Quarters
= 3,5 per diem

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BROWARD ENVIRONMENTAL
PROTECTION DEPARTMENT
PPRAQD
2011 OCT -3 PM 2:58

FDEP copy

SUPPLEMENTAL SITE ASSESSMENT REPORT

First Coast Energy #1801/Former Shell Service Station #100700

390 South Powerline Road

Deerfield Beach, Broward County, Florida

FDEP FAC ID NO. 06/8731807

FDEP Preapproval Work Order 2011-06-W94607

Prepared for:

Shell Oil Products US

On behalf of Motiva Enterprises, LLC

7765 Lake Worth Rd., No. 319

Lake Worth, Florida 33467

Prepared by:

GROUNDWATER & ENVIRONMENTAL SERVICES, INC.

6500 Northwest 12th Avenue, Suite 109

Fort Lauderdale, Florida 33309

September 2011

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DRAFT

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Supplemental Site Assessment Report

First Coast Energy #1801/Former Shell Service Station #100700
390 South Powerline Road
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FDEP FAC ID NO. 06/8731807
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Prepared By:
Groundwater & Environmental Services, Inc.
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(866) 565-7650 Phone
(866) 334-9883 Fax

September 2011

Prepared by:

Jessica Sasser
Associate Geologist

Reviewed by:

Michael Berzinsky
Project Manager

PG CERTIFICATION

"I, Jack Wells, P.G. # 793, certify that I currently hold an active license in the State of Florida and am competent through education or experience to provide the geologic service contained in this report. I further certify that in my professional judgment this report meets the pertinent requirements of Section 62-770 FAC and was prepared by me or under my responsible charge. Moreover, I certify that Groundwater and Environmental Services Inc, holds an active certificate of authorization #GB452 to provide the geologic service."

Reviewed By: Jack G. Wells, P.G.
License No. 793
9/30/11

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1.0 INTRODUCTION

1.1 General

Groundwater & Environmental Services, Inc. (GES) has prepared this Supplemental Site Assessment Report (SSAR) on behalf of Shell Oil Products US/Motiva Enterprises, LLC (SOPUS) to document soil and groundwater conditions at the subject property. SOPUS no longer owns nor operates the facility. The SSAR activities were authorized by the Florida Department of Environmental Protection (FDEP) Preapproval Work Order 2011-06-W94607. Pertinent regulatory correspondence is included in **Appendix A**. A site location map is included as **Figure 1** and a site map depicting site features is included as **Figure 2**.

1.2 Background

The subject facility is a former retail automotive fuel station, located within the City of Deerfield Beach. Historically, the facility utilized three (3) 10,000-gallon, fiberglass-clad steel, underground storage tanks (USTs) to store unleaded gasoline, one (1) 10,000-gallon, fiberglass-clad steel UST for vehicular diesel fuel and four (4) multi-product dispensers with associated fiberglass product piping. The USTs and product piping were installed in August 1985. In May 2010, First Coast Energy, LLP (FCE), the current property owner, removed the UST system and did not replace it; UST system closure activities were completed without the oversight of GES personnel.

On December 22, 1988 a Discharge Notification Form (DNF) was filed for the subject site when laboratory analysis of groundwater indicated the presence of petroleum. The cause of the leak was attributed to long term operation and/or over fill. On February 16, 1990 the discharge was deemed eligible for reimbursement under the Early Detection Incentive (EDI) Program.

A second Discharge Reporting Form (DRF), dated January 21, 1994, was filed due to a surface spill of diesel fuel during product delivery. As a result of the January 1994 DRF, the site was determined eligible for state-funded restoration assistance through the Florida Petroleum Liability Insurance and Restoration Program (PLIRP).

A third DRF was submitted on July 31, 1998, due to the presence of sheen observed on the groundwater in the tank pit area compliance wells. As a result of the July 31, 1998 DRF, the site was again determined eligible for state-funded restoration assistance through the Florida PLIRP. Subsequently, assessment activities were performed and documented in a Site Assessment Report (SAR), Supplemental Site Assessment Report (SSAR), SSAR Addendum, and SSAR Addendum II which were submitted on December 28, 2005, November 28, 2006, May 2, 2007, and September 14, 2007, respectively. The reports indicated that the extent of the petroleum hydrocarbon impacted soil and groundwater was delineated.

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A Limited Scope Remedial Action Plan (LSRAP) was submitted on August 6, 2009 under Pre-Approval Work Order No. 2009-06-W86530 to address dissolved and adsorbed phase hydrocarbon concentrations onsite. Due to scheduled UST upgrade activities, remedial action in the form of source removal was proposed in order to address persistent adsorbed and dissolved phase hydrocarbon impact in the vicinity of the tank field and area north of the tank field and to the west of the dispenser islands. The LSRAP was approved by the FDEP under four separate FDEP Pre-Approval Work Orders, each responsible for addressing the proposed remedial actions, implemented in three phases: groundwater extraction/water disposal (Phase 1), source removal from UST area (Phase 2) and source removal from area west of dispensers (Phase 3).

As documented in the July 2010 GES Source Removal Report (SRR), groundwater extraction activities were conducted between March 30 and April 6, 2010, and the volumes of groundwater recovered from MW-26I and MW-29D were approximately 73,585 gallons and 57,510 gallons, respectively. All extracted water was containerized and hauled off-site by FCC Environmental for treatment at an approved treatment facility. On May 24 and 26, 2010, soil samples SS-1 through SS-9 were collected along the sidewalls of the Phase 2 & 3 excavations and analyzed. Soil sample SS-4 (6-8') exceeded the leachability SCTLs for ethylbenzene and total xylenes but was below the Residential Direct Exposure SCTLs. All other sampled parameters were below the applicable SCTLs. Following the excavation activities, air injection was initiated in the Phase 2 & 3 areas on June 2, 2010; however, the Division determined that the in-situ air injection would not provide cost-effective remediation. Therefore, GES ceased operation of the system on June 3, 2010. From the Phase 2 & 3 areas, 443.2 tons of soil were excavated and transported for disposal at the Waste Management facility in Pompano Beach, Florida. The Phase 2 and 3 excavations were backfilled and finished with asphalt pavement.

As documented in the GES SRR Addendums submitted between August 2010 and January 2011, several monitoring wells were damaged or destroyed during the Preapproval Program-funded Phase 2 & 3 excavation activities as well as FCE's non-program UST removal activities.

On February 9, 2011, GES submitted a Preapproval Program Cost Proposal to the Division for supplemental site assessment activities. After several revisions to the cost proposal, GES received the Preapproval Work Order #2011-06-W94607 in June 2011. Activities inducted under the above referenced work order are documented herein.

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2.0 SOIL ASSESSMENT

2.1 Quality Assurance

Field activities were conducted in general accordance with Chapter 62-770, Florida Administrative Code (FAC) and FDEP Standard Operating Procedures (SOPs). Laboratory analyses of soil and groundwater samples were performed by TestAmerica Laboratories, Inc. (TestAmerica) of Nashville, Tennessee (Certification Number E87358).

2.2 Soil Sample Collection and Analysis

On August 2, 2011, soil samples were collected from soil boring SB-4A and in the locations of installed monitoring wells. The soil samples were screened in 2-foot intervals from land surface to the water table, which was located approximately eight feet below land surface (bls). The samples were screened for organic vapor analysis (OVA) using a photo ionization detector (PID). The results of the soil headspace field analysis indicated soil vapor readings ranged from below detection limit (BDL) to 1,600 parts per million (ppm).

Soil sample SB-4A (6-8'), exhibiting an OVA reading of 1,600 ppm, was delivered to TestAmerica for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX) and methyl tert-butyl ether (MTBE) in accordance with EPA Method 8260B. The results of the laboratory analysis indicated that the soil sample collected from SB-4A (6-8') exhibited concentrations of benzene, ethylbenzene, total xylenes and MTBE above the Chapter 62-777, FAC Table II Soil Cleanup Target Levels (SCTLs) for Leachability.

On September 14, 2011, confirmation soil boring SS-10 was advanced immediately adjacent to SB-4A. Contingency borings SS-11 and SS-12 were advanced via hand auger south of soil boring location SB-4A. Soil samples from the 6-8 foot interval, SS-10 (6-8') and SS-11 (6-8'), were collected and delivered to TestAmerica for analysis via EPA Method 1312/8260B for BTEX/MTBE using the Soil Precipitation Leachate Procedure (SPLP). Soil sample SS-11 (6-8') was placed on hold with the laboratory pending results of SS-10. Boring SS-12 was partially advanced; however due to the presence of native limestone, the boring could not be advanced deeper than 4-feet. A soil sample was therefore not collected from SS-12. The results of the soil headspace analysis from soil samples collected on September 14, 2011, indicated soil vapor readings ranging from BDL to 17.7 ppm.

The results of the SPLP leachate analysis of SS-10 (6-8') tested below Groundwater Cleanup Target Levels (GCTLs).

The soil boring locations and historical OVA headspace results are summarized on **Table 1** and are illustrated on **Figures 3** and **4,** respectively.

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The August 2 and September 14, 2011 laboratory analytical results are illustrated on **Figures 5** and **6** and summarized in **Tables 2** and **3**. Soil boring logs are included in **Appendix B** and copies of the soil laboratory analytical report are provided in **Appendix C**.

3.0 GROUNDWATER ASSESSMENT

3.1 Quality Assurance

Field activities were conducted in general accordance with Chapter 62-770, FAC and FDEP SOPs. Groundwater sample analyses were performed by TestAmerica.

3.2 Monitoring Well Installation, Repair and Abandonment

On August 2, 3 and 17, 2011, GES personnel supervised the installation and development of six shallow monitoring wells, MW-17R, MW-18R, MW-19R, MW-39, MW-40 and MW-41, and one deep well, MW-22D-R, by Enviro-Drill, Inc. (FL License No. 11031). Monitoring wells MW-39, MW-40 and MW-41 were not funded by the FDEP under Preapproval Work Order #2011-06-W94607.

Monitoring wells MW-17R, MW-18R, MW-19R, MW-39, MW-40 and MW-41 were installed to a total approximate depth of 13 feet bls and constructed of 2-inch diameter schedule 40 polyvinyl chloride (PVC) pipe with a 10-foot, 0.010-inch slotted screen interval from approximately 3-feet to 13-feet bls. Monitoring well MW-22D-R was installed with a single casing to a total depth of 35 feet bls and was constructed of two-inch diameter schedule 40 PVC pipe with 5-foot, 0.010-inch slotted screen interval from approximately 30 feet to 35 feet bls. The wells were completed with a 2-foot by 2-foot concrete pad, eight-inch diameter, steel, manhole cover and expansion cap. All soils removed exhibiting OVA readings 10 ppm or greater and associated development water were placed into drums for subsequent proper disposal. A composite pre-disposal (PD-1) soil sample was collected on August 2, 2011 for waste profiling.

On August 2 and 17, 2011, monitoring wells OW-11, OW-14, OW-16D and MW-28I were abandoned by EnviroDrill, Inc. under the supervision of GES personnel. The monitoring wells were abandoned by pouring a mixture of No. 1 Portland cement and 5% bentonite within the monitoring well annulus via the tremmie method in accordance with the South Florida Water Management District (SFWMD) well abandonment criteria. The monitoring well locations are shown on **Figure 1**. The Well Construction and Development Logs and Well Completion Reports are provided in **Appendix D**.

On August 3, 2011, GES personnel supervised the repair/retrofit and re-development of monitoring wells OW-10, OW-12, MW-21D and MW-29D. The 2-foot by 2-foot concrete pads were replaced and each well was surge blocked and re-developed using a peristaltic pump.

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3.3 Groundwater Elevation and Flow Direction

On August 19, 2011, depth-to-water (DTW) measurements were gauged within monitoring wells OW-5, OW-6, OW-7, OW-8, OW-10, OW-12, OW-15, OW-16, OW-17, MW-17R, MW-18R, MW-19R, MW-20, MW-21D, MW-22D-R, MW-23, MW-24, MW-25, MW-26I, MW-27I, MW-29D, MW-30D, MW-33D, MW-34I, MW-36D and MW-38I during the top of casing (TOC) elevation survey activities.

The DTW measurements and surveyed TOC elevations were used to calculate relative groundwater elevations in each well. On August 19, 2011, the interpreted groundwater flow direction was towards the southeast in the shallow interval, towards the east in the intermediate interval and towards the southwest in the deep interval.

DTW data measurements and calculated groundwater elevation information are summarized on **Table 4**. **Figures 7** through **9** illustrate the calculated water table elevations and interpreted groundwater flow directions on August 19, 2011.

3.4 Groundwater Sample Collection and Analysis

On August 11, 2011, groundwater samples were collected from OW-5, OW-8, OW-10, OW-12, OW-15, OW-16, OW-17, MW-17R, MW-18R, MW-19R, MW-20, MW-21D, MW-22D-R, MW-23, MW-26I, MW-29D, MW-31D and MW-34I. Samples were collected and delivered to TestAmerica for one or more of the following analyses: BTEX/MTBE via EPA Method 8260B, BTEX/MTBE/Oxygenates via EPA Method 8260B and PAH via EPA Method 8270C.

The laboratory analytical results of the groundwater samples collected on August 11, 2011 indicated the following: concentrations of ethylbenzene and total xylenes above the FDEP Chapter 62-777, Table I, Natural Attenuation Default Concentration (NADC) in monitoring well MW-18R; concentrations of naphthalene above the NADC in monitoring well OW-10.

Also, concentrations of benzene were detected above the FDEP Chapter 62-777 FAC, Table I, Groundwater Cleanup Target Level (GCTL) in monitoring wells OW-10, OW-12, MW-17R, MW-18R and MW-22D-R; concentrations of ethylbenzene were detected above the GCTL in monitoring well OW-10; concentration of total xylenes were detected above the GCTL in monitoring well OW-10; concentrations of naphthalene were detected above the GCTL in monitoring wells OW-12, MW-17R and MW-18R; concentrations of 1-methylnaphthalene and 2-methylnaphthalene were detected above the GCTLs in monitoring wells OW-10, OW-12 and MW-18R; concentrations of 2-methylnaphthalene were detected above the GCTL in monitoring well MW-17R.

On August 18, 2011, groundwater samples were collected from MW-39, MW-40 and MW-41 for analysis for BTEX/MTBE/Oxygenates via EPA Method 8260B.

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The laboratory analytical results of the groundwater samples collected on August 18, 2011 indicated the following: concentrations of benzene above the FDEP Chapter 62-777, Table I, Natural Attenuation Default Concentration (NADC) in monitoring well MW-40; concentrations of total xylenes above the NADC in monitoring wells MW-39 and MW-40; concentrations of benzene were detected above the FDEP Chapter 62-777 FAC, Table I, Groundwater Cleanup Target Level (GCTL) in monitoring well MW-40; concentration of ethylbenzene above the GCTL in monitoring wells MW-39 and MW-40.

On September 14, 2011, groundwater samples were collected from OW-15, OW-16, MW-22D-R and MW-24 for analysis for PAH via EPA Method 8270C and additionally sample MW-22D-R and MW-24 for benzene via EPA Method 8260B.

The laboratory analytical results of the groundwater samples collected on September 14, 2011 were all below the laboratory method detection limit (BDL) or below the GCTLs. Therefore, groundwater impacts are delineated both horizontally and vertically in the area of the former tank field.

The FDEP Groundwater Sampling Logs are included in **Appendix E**. Copies of the groundwater laboratory analytical reports from the August 11, August 19 and September 14, 2011 groundwater sampling events are provided in **Appendix F**. The groundwater analytical results are summarized in **Tables 5** and **6** and illustrated on **Figures 10** through **17**.

3.5 Disposal

As noted in the field notes dated August 11, 2011, two development water drums that were generated during the August 2 and 3, 2011 well installation event were found missing from the site and therefore presumed stolen. On September 9, 2011, a total of four drums (55-gallon), containing soil and development water were transported from the site to the FCC Environmental, LLC facility in Pompano Beach, Florida for disposal. On September 14, 2011, a police report was filed for the stolen drums. There are currently a total of three drums on site containing soil and development water from the FCE well installation activities awaiting disposal. Copies of the Disposal Waste Manifests are provided in **Appendix G.**

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 Conclusions

- OVA readings collected in August and September, 2011, ranged from BDL to 1,600 ppm.
- Soil sample SB-4A (6-8'), with a corresponding OVA reading of 1,600 ppm, exhibited concentrations of benzene, ethylbenzene, total xylenes and MTBE above the Leachability SCTLs.

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The SPLP results for soil sample SS-10 (6-8') located immediately adjacent to SB-4A (6-8') exhibited concentrations below GCTLs when analyzed for BTEX/MTBE. Therefore, the soil data from this assessment indicates that no onsite soil exceeds direct exposure SCTLs or would impact groundwater above regulatory levels through leaching.

- On August 19, 2011, the interpreted groundwater flow direction was towards the southeast in the shallow interval, towards the east in the intermediate interval and towards the southwest in the deep interval.
- Groundwater samples collected on August 11, 2011 from OW-10 exhibited concentrations of benzene, ethylbenzene, total xylenes, 1-methylnaphthalene and 2-methylnaphthalene above the GCTLs and concentrations of naphthalene above the NADC; OW-12 exhibited concentrations of benzene, naphthalene, 1-methylnaphthalene and 2-methylnaphthalene above the GCTLs; MW-17R exhibited concentrations of benzene, naphthalene and 2-methylnaphthalene above the GCTLs; MW-18R exhibited concentrations of benzene, naphthalene, 1-methylnaphthalene and 2-methylnaphthalene above the GCTLs and concentrations of ethylbenzene and total xylenes above the NADC; MW-22D-R exhibited concentrations of benzene above the GCTL.
- Groundwater samples collected on August 18, 2011 from MW-39 exhibited concentrations of benzene and ethylbenzene above the GCTLs and concentrations of total xylenes above the NADC; MW-40 exhibited concentrations of ethylbenzene above the GCTL and concentrations of benzene and total xylenes above the NADC.
- The laboratory analytical results of the groundwater samples collected on September 14, 2011 were all BDL or the GCTLs.
- The petroleum hydrocarbon impacts above NADCs are limited to the shallow interval in the immediate vicinity of the former tank field/southwest dispenser islands; impacts above the GCTL are defined horizontally and vertically.

4.2 Recommendations

Based on the findings presented in this report and during the previous site assessment activities, GES, on behalf of SOPUS, recommends that a Remedial Action Plan (RAP) be prepared to address the groundwater impacts at the site.

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FIGURES

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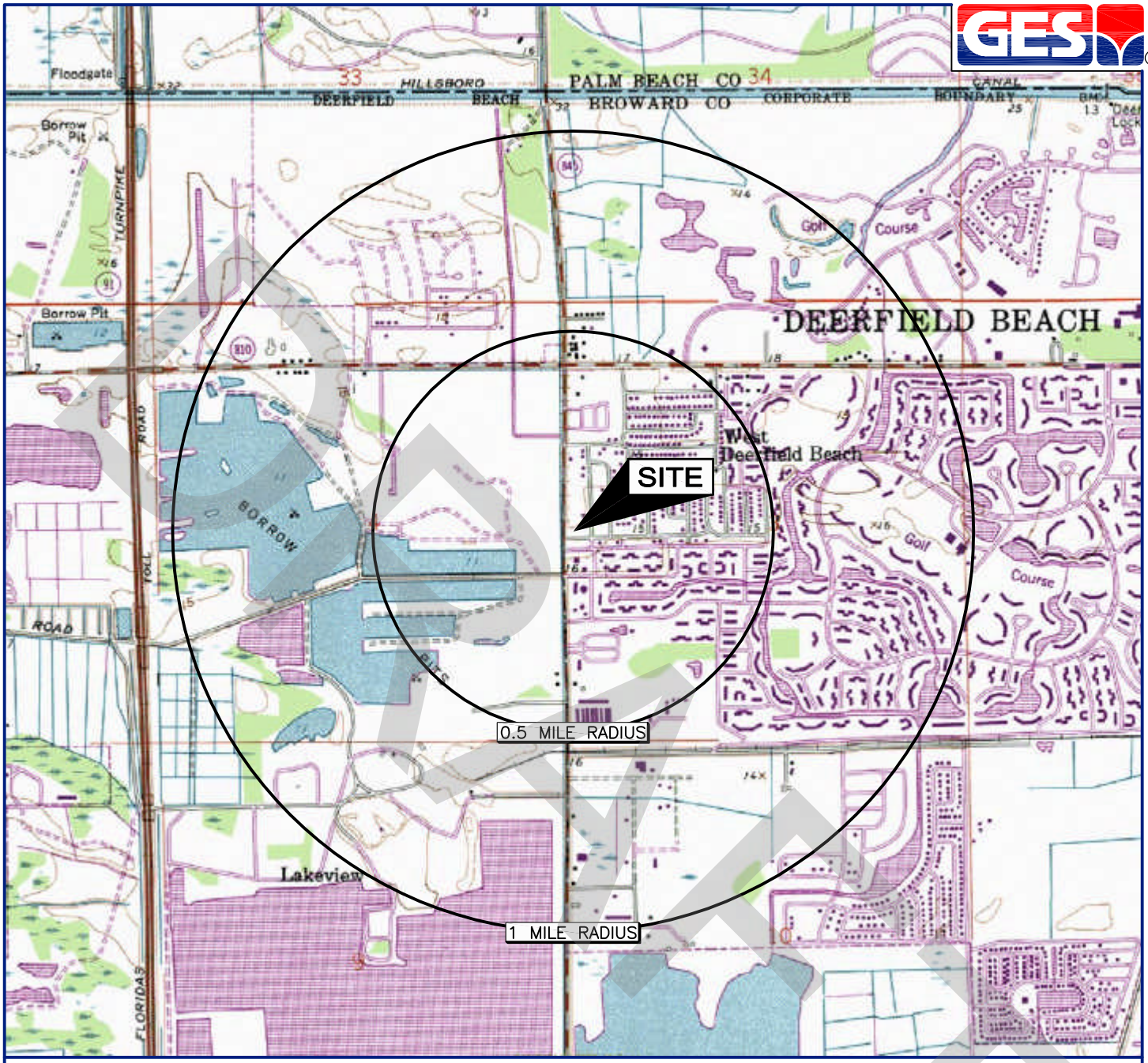
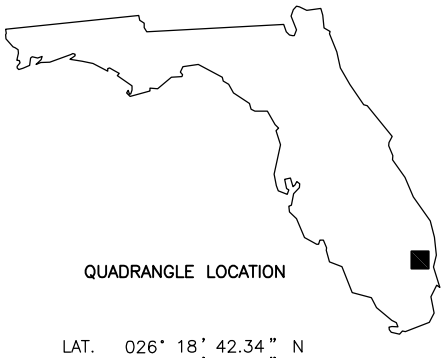


SOURCE: USGS 7.5 MINUTE SERIES
TOPOGRAPHIC QUADRANGLE 1983
WEST DIXIE BEND, FLORIDA
CONTOUR INTERVAL = 5'



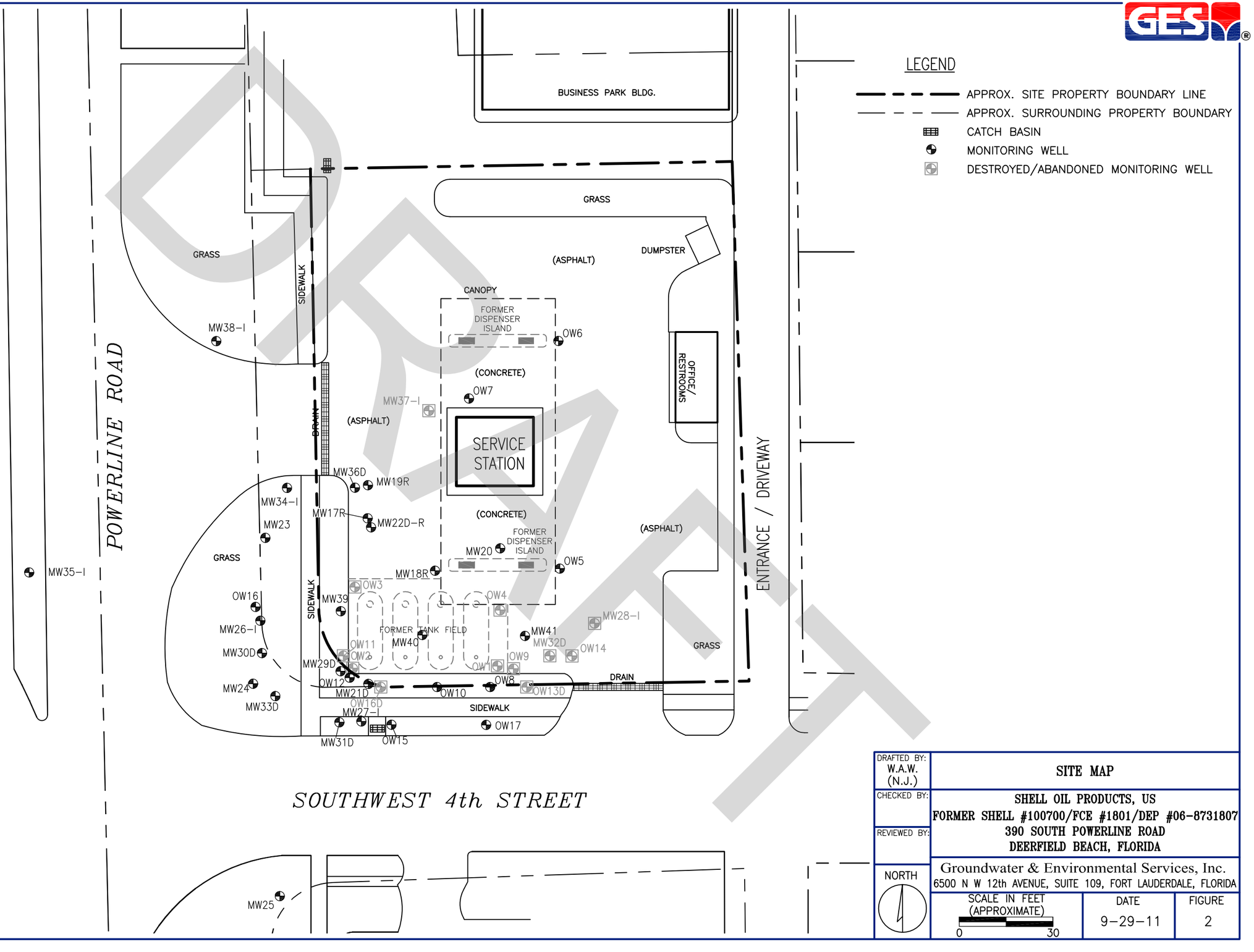
LAT. 026° 18' 42.34" N
LONG. 080° 09' 08.18" W
(APPROXIMATE SITE COORDINATES)

DRAFTED BY: E.M.E. (N.J.)	**SITE LOCATION MAP**
CHECKED BY:	**SHELL OIL PRODUCTS, US** **FORMER SHELL #100700/FCE #1801/DEP #06-8731807** **390 SOUTH POWERLINE ROAD** **DEERFIELD BEACH, FLORIDA**
REVIEWED BY:	
NORTH	**Groundwater & Environmental Services, Inc.** 6500 N W 12th AVENUE, SUITE 109, FORT LAUDERDALE, FLORIDA

SCALE IN FEET	DATE	FIGURE
0 2000	9-15-11	1

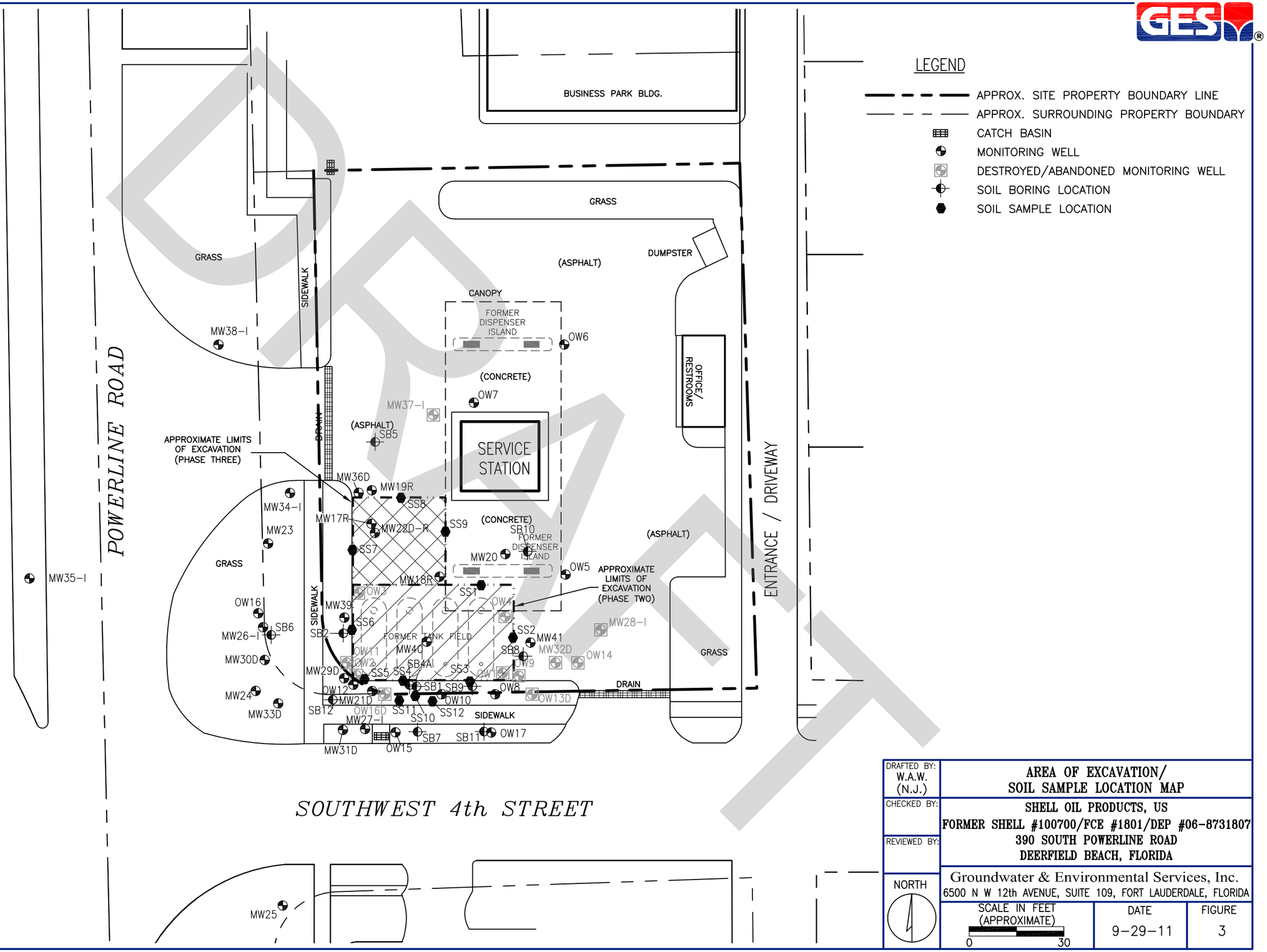
M:\Graphics\2600-Fort_Lauderdale\Shell\100700 (FCE 1801) Deerfield Beach\100700 (FCE 1801) deerfield beach SLM.dwg, 9/15/2011 4:46:38 PM, eedwards

DRAFT



DRAFTED BY: W.A.W. (N.J.)	SITE MAP
CHECKED BY:	SHELL OIL PRODUCTS, US FORMER SHELL #100700/FCE #1801/DEP #06-8731807 390 SOUTH POWERLINE ROAD DEERFIELD BEACH, FLORIDA
REVIEWED BY:	Groundwater & Environmental Services, Inc. 6500 N W 12th AVENUE, SUITE 109, FORT LAUDERDALE, FLORIDA
NORTH	SCALE IN FEET (APPROXIMATE) 0 30 / DATE 9-29-11 / FIGURE 2

M:\Graphics\2600-Fort_Lauderdale\Shell\100700 (FCE 1801) Deerfield Beach\100700 (FCE 1801) deerfield beach SM.dwg, 9/29/2011 9:24:13 AM, WWesterlund

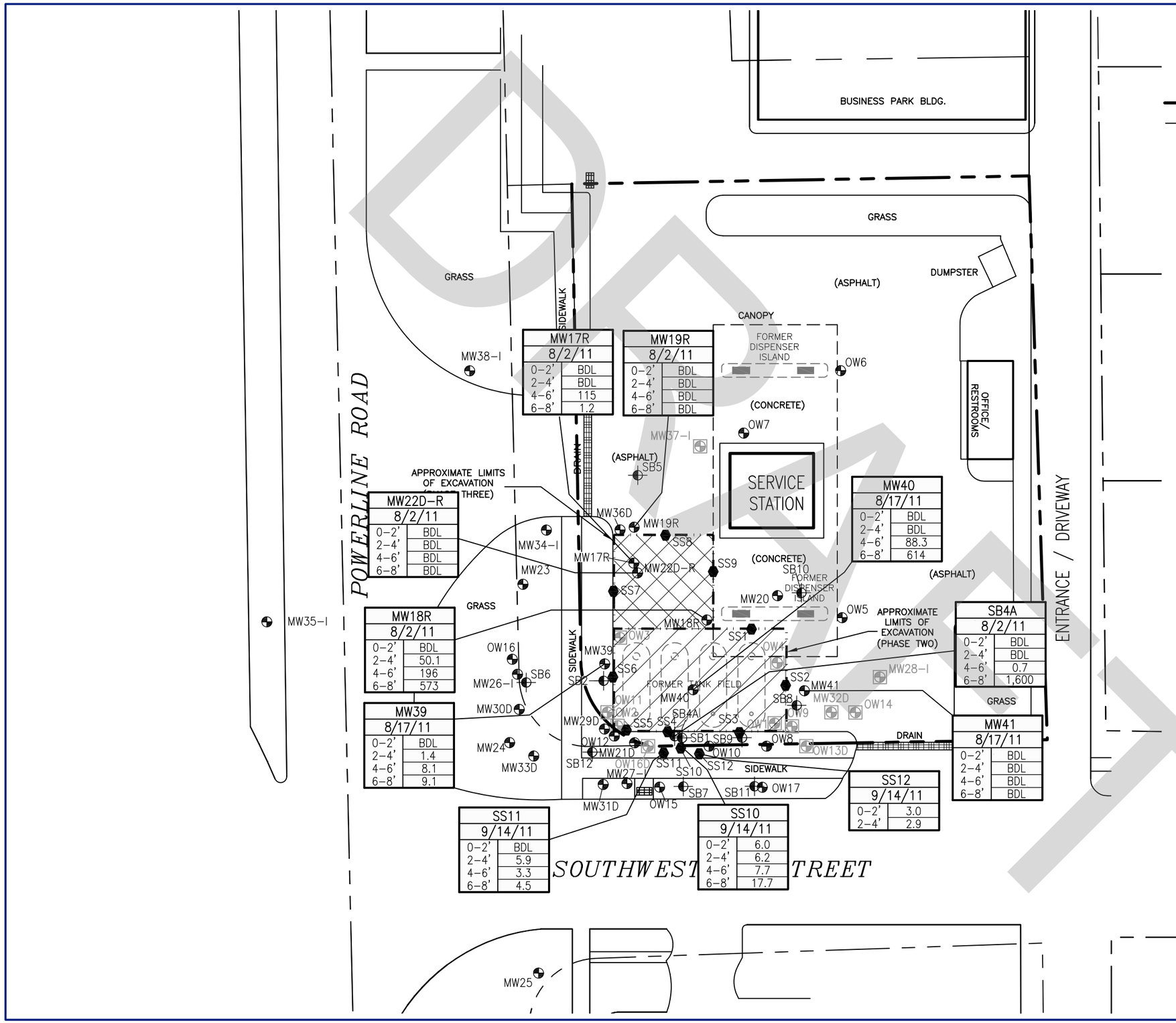


LEGEND

- APPROX. SITE PROPERTY BOUNDARY LINE
- APPROX. SURROUNDING PROPERTY BOUNDARY
- CATCH BASIN
- MONITORING WELL
- DESTROYED/ABANDONED MONITORING WELL
- SOIL BORING LOCATION
- SOIL SAMPLE LOCATION

DRAFTED BY: W.A.W. (N.J.)	**AREA OF EXCAVATION/ SOIL SAMPLE LOCATION MAP**
CHECKED BY:	**SHELL OIL PRODUCTS, US**
REVIEWED BY:	**FORMER SHELL #100700/FCE #1801/DEP #06-8731807**
	390 SOUTH POWERLINE ROAD
	DEERFIELD BEACH, FLORIDA
NORTH	Groundwater & Environmental Services, Inc. 6500 N W 12th AVENUE, SUITE 109, FORT LAUDERDALE, FLORIDA
SCALE IN FEET (APPROXIMATE) 0 30	DATE 9-29-11 / FIGURE 3

M:\Graphics\2600-Fort_Lauderdale\Shell\100700 (FCE 1801) Deerfield Beach\100700 (FCE 1801) deerfield beach SM.dwg, 9/29/2011 9:26:07 AM, WWesterlund



LEGEND

- APPROX. SITE PROPERTY BOUNDARY LINE
- APPROX. SURROUNDING PROPERTY BOUNDARY
- CATCH BASIN
- MONITORING WELL
- DESTROYED/ABANDONED MONITORING WELL
- SOIL BORING LOCATION
- SOIL SAMPLE LOCATION

MW40		OVA READING LOCATION
8/7/11		OVA READING DATE
0-2'	0.0	NET OVA @ DEPTH INTERVAL (ppm)
2-4'	0.0	NET OVA @ DEPTH INTERVAL (ppm)
4-6'	88.3	NET OVA @ DEPTH INTERVAL (ppm)
6-8'	614	NET OVA @ DEPTH INTERVAL (ppm)

ppm PARTS PER MILLION

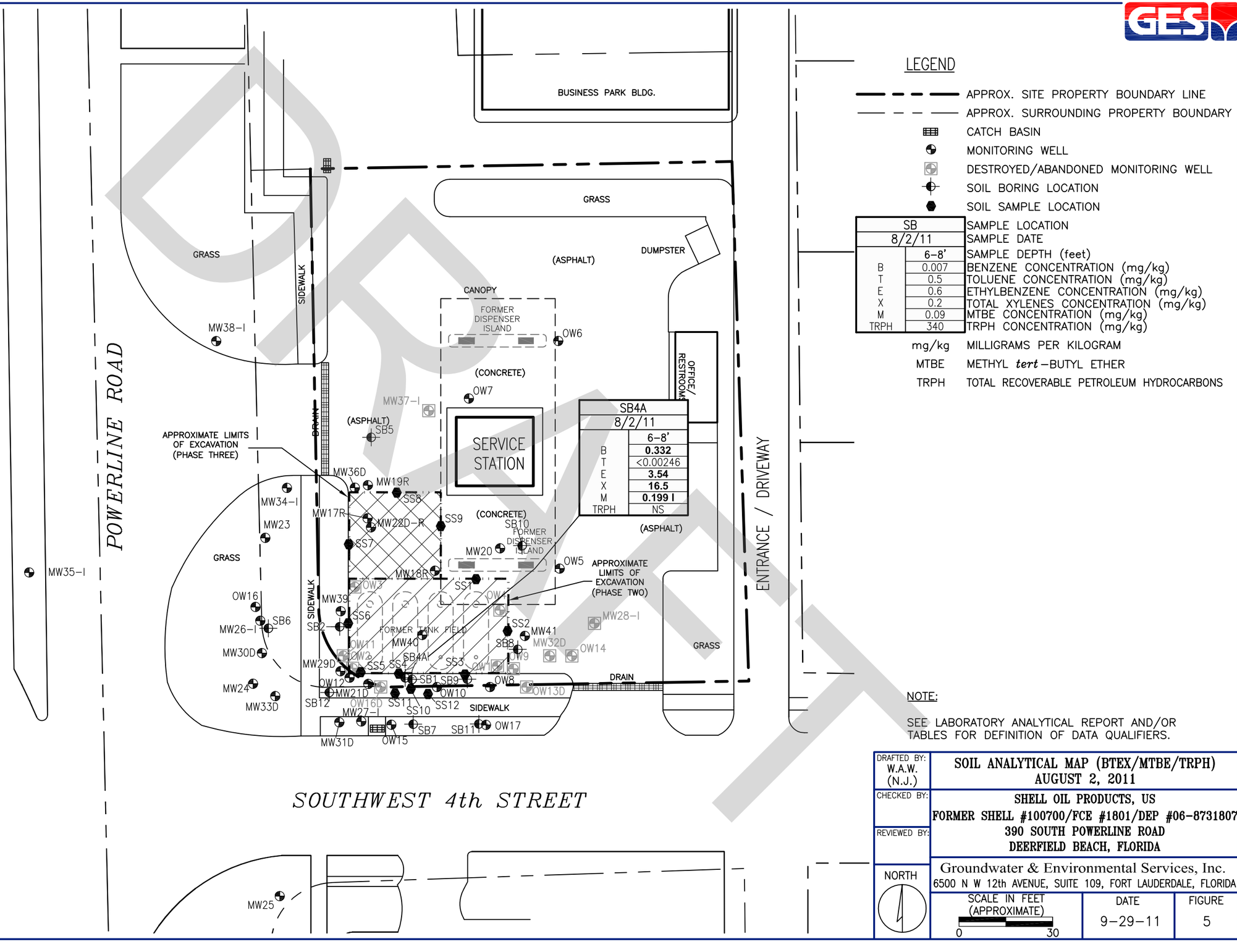
OVA RESULTS WERE OBTAINED UTILIZING A PHOTO IONIZATION DETECTOR (PID)

BDL LESS THAN 1 ppm

DRAFT

DRAFTED BY: W.A.W. (N.J.)	SOIL OVA RESULTS MAP AUGUST 2, 17 & SEPTEMBER 14, 2011
CHECKED BY:	SHELL OIL PRODUCTS, US FORMER SHELL #100700/FCE #1801/DEP #06-8731807 390 SOUTH POWERLINE ROAD DEERFIELD BEACH, FLORIDA
REVIEWED BY:	
NORTH	Groundwater & Environmental Services, Inc. 6500 N W 12th AVENUE, SUITE 109, FORT LAUDERDALE, FLORIDA
SCALE IN FEET (APPROXIMATE) 0 30	DATE 9-29-11 FIGURE 4

M:\Graphics\2600-Fort_Lauderdale\Shell\100700 (FCE 1801) Deerfield Beach\100700 (FCE 1801) deerfield beach SM.dwg, 9/29/2011 9:27:40 AM, WWesterlund



LEGEND

- APPROX. SITE PROPERTY BOUNDARY LINE
- APPROX. SURROUNDING PROPERTY BOUNDARY
- CATCH BASIN
- MONITORING WELL
- DESTROYED/ABANDONED MONITORING WELL
- SOIL BORING LOCATION
- SOIL SAMPLE LOCATION

SB	SAMPLE LOCATION
8/2/11	SAMPLE DATE
6-8'	SAMPLE DEPTH (feet)
B 0.007	BENZENE CONCENTRATION (mg/kg)
T 0.5	TOLUENE CONCENTRATION (mg/kg)
E 0.6	ETHYLBENZENE CONCENTRATION (mg/kg)
X 0.2	TOTAL XYLENES CONCENTRATION (mg/kg)
M 0.09	MTBE CONCENTRATION (mg/kg)
TRPH 340	TRPH CONCENTRATION (mg/kg)

- mg/kg — MILLIGRAMS PER KILOGRAM
- MTBE — METHYL *tert*-BUTYL ETHER
- TRPH — TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

NOTE:

SEE LABORATORY ANALYTICAL REPORT AND/OR TABLES FOR DEFINITION OF DATA QUALIFIERS.

DRAFTED BY: W.A.W. (N.J.)	**SOIL ANALYTICAL MAP (BTEX/MTBE/TRPH) AUGUST 2, 2011**
CHECKED BY:	**SHELL OIL PRODUCTS, US**
REVIEWED BY:	**FORMER SHELL #100700/FCE #1801/DEP #06-8731807**
	390 SOUTH POWERLINE ROAD
	DEERFIELD BEACH, FLORIDA
NORTH	Groundwater & Environmental Services, Inc. 6500 N W 12th AVENUE, SUITE 109, FORT LAUDERDALE, FLORIDA
SCALE IN FEET (APPROXIMATE) 0 30	DATE 9-29-11 / FIGURE 5

DRAFT

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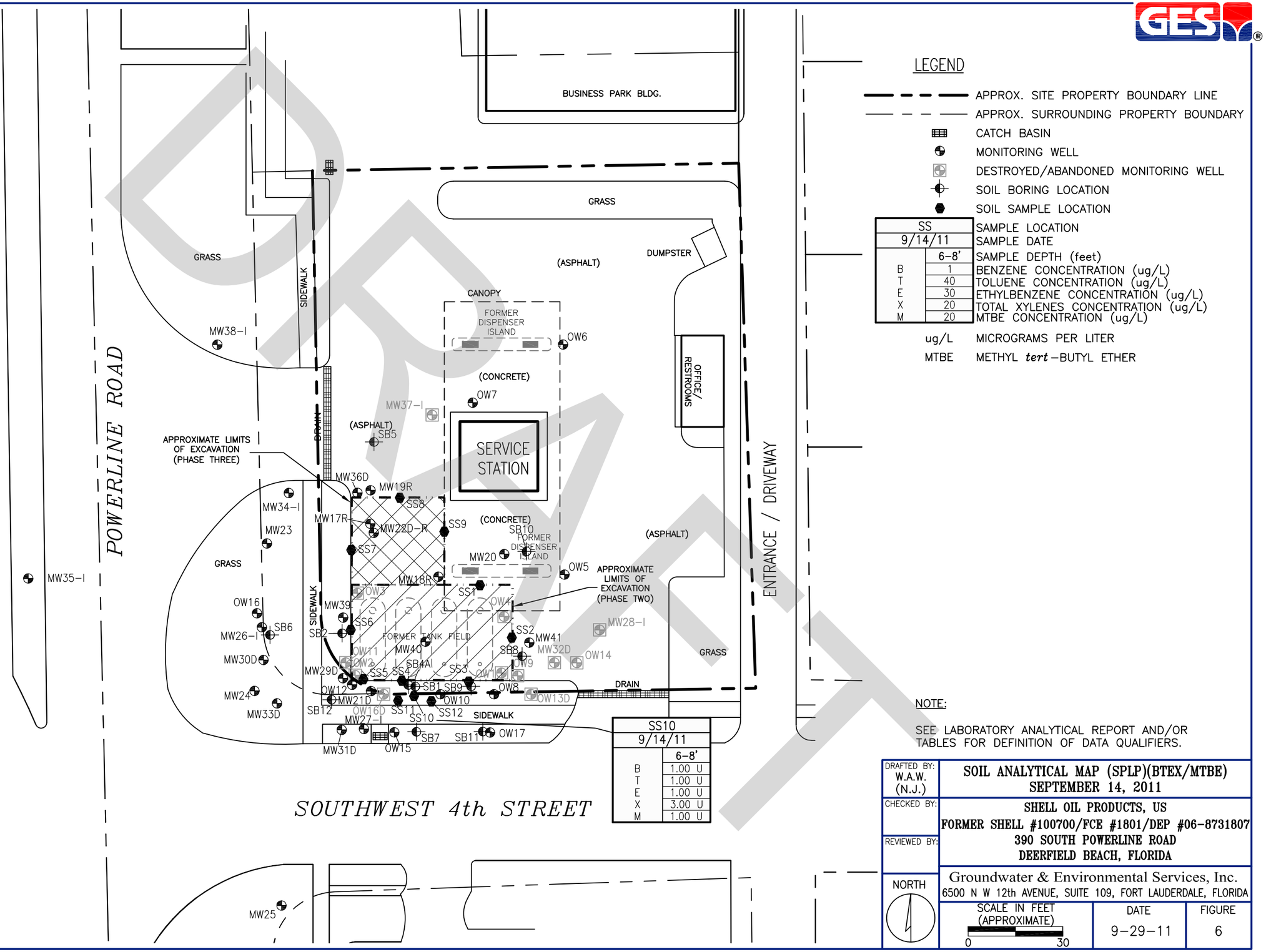

LEGEND

- APPROX. SITE PROPERTY BOUNDARY LINE
- APPROX. SURROUNDING PROPERTY BOUNDARY
- CATCH BASIN
- MONITORING WELL
- DESTROYED/ABANDONED MONITORING WELL
- SOIL BORING LOCATION
- SOIL SAMPLE LOCATION

SS	SAMPLE LOCATION
9/14/11	SAMPLE DATE
6-8'	SAMPLE DEPTH (feet)
B 1	BENZENE CONCENTRATION (ug/L)
T 40	TOLUENE CONCENTRATION (ug/L)
E 30	ETHYLBENZENE CONCENTRATION (ug/L)
X 20	TOTAL XYLENES CONCENTRATION (ug/L)
M 20	MTBE CONCENTRATION (ug/L)

ug/L MICROGRAMS PER LITER

MTBE METHYL *tert*-BUTYL ETHER

NOTE:

SEE LABORATORY ANALYTICAL REPORT AND/OR TABLES FOR DEFINITION OF DATA QUALIFIERS.

DRAFTED BY: W.A.W. (N.J.)

CHECKED BY:

REVIEWED BY:

SOIL ANALYTICAL MAP (SPLP)(BTEX/MTBE) SEPTEMBER 14, 2011

SHELL OIL PRODUCTS, US
FORMER SHELL #100700/FCE #1801/DEP #06-8731807
390 SOUTH POWERLINE ROAD
DEERFIELD BEACH, FLORIDA

Groundwater & Environmental Services, Inc.
6500 N W 12th AVENUE, SUITE 109, FORT LAUDERDALE, FLORIDA

NORTH

SCALE IN FEET (APPROXIMATE) 0 30

DATE 9-29-11

FIGURE 6

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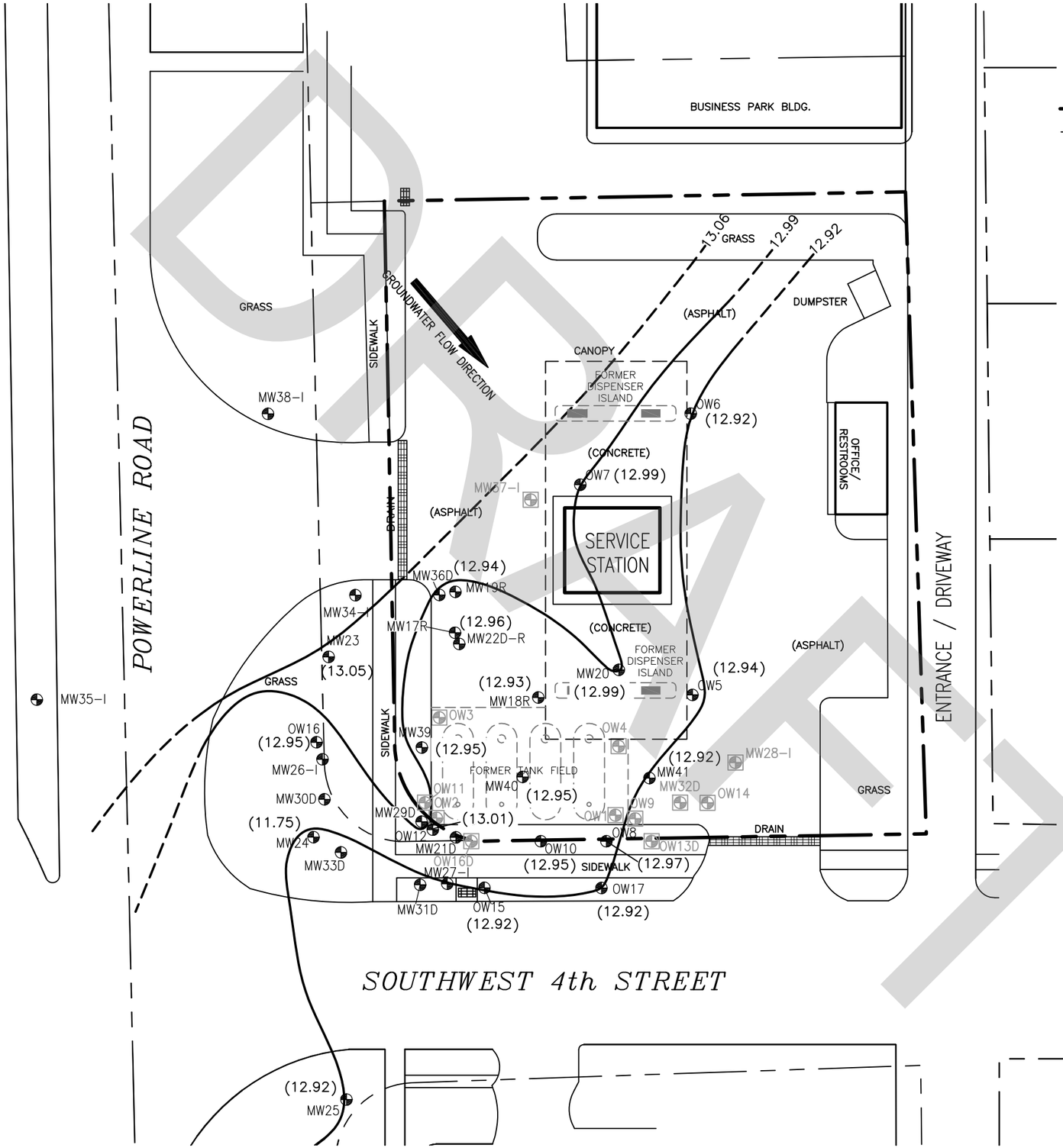
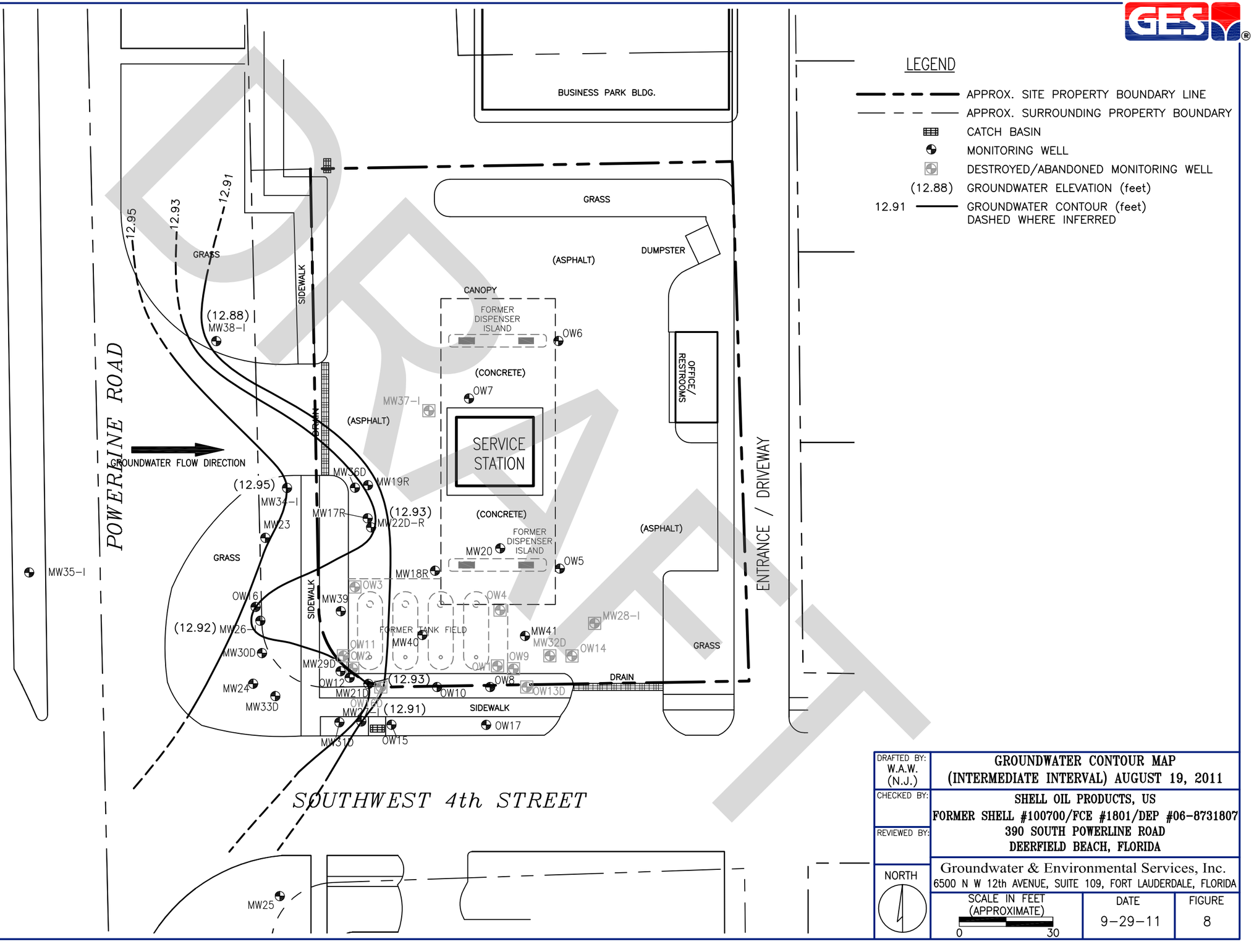


LEGEND

- APPROX. SITE PROPERTY BOUNDARY LINE
- APPROX. SURROUNDING PROPERTY BOUNDARY
- CATCH BASIN
- MONITORING WELL
- DESTROYED/ABANDONED MONITORING WELL
- (12.92) GROUNDWATER ELEVATION (feet)
- 12.92 GROUNDWATER CONTOUR (feet) DASHED WHERE INFERRED

DRAFTED BY: W.A.W. (N.J.)	GROUNDWATER CONTOUR MAP (SHALLOW INTERVAL) AUGUST 19, 2011
CHECKED BY:	SHELL OIL PRODUCTS, US FORMER SHELL #100700/FCE #1801/DEP #06-8731807 390 SOUTH POWERLINE ROAD DEERFIELD BEACH, FLORIDA
REVIEWED BY:	Groundwater & Environmental Services, Inc. 6500 N W 12th AVENUE, SUITE 109, FORT LAUDERDALE, FLORIDA
NORTH	SCALE IN FEET (APPROXIMATE) 0 30 / DATE 9-29-11 / FIGURE 7

M:\Graphics\2600-Fort_Lauderdale\Shell\100700 (FCE 1801) Deerfield Beach\100700 (FCE 1801) deerfield beach SM.dwg, 9/29/2011 9:35:19 AM, WWesterlund

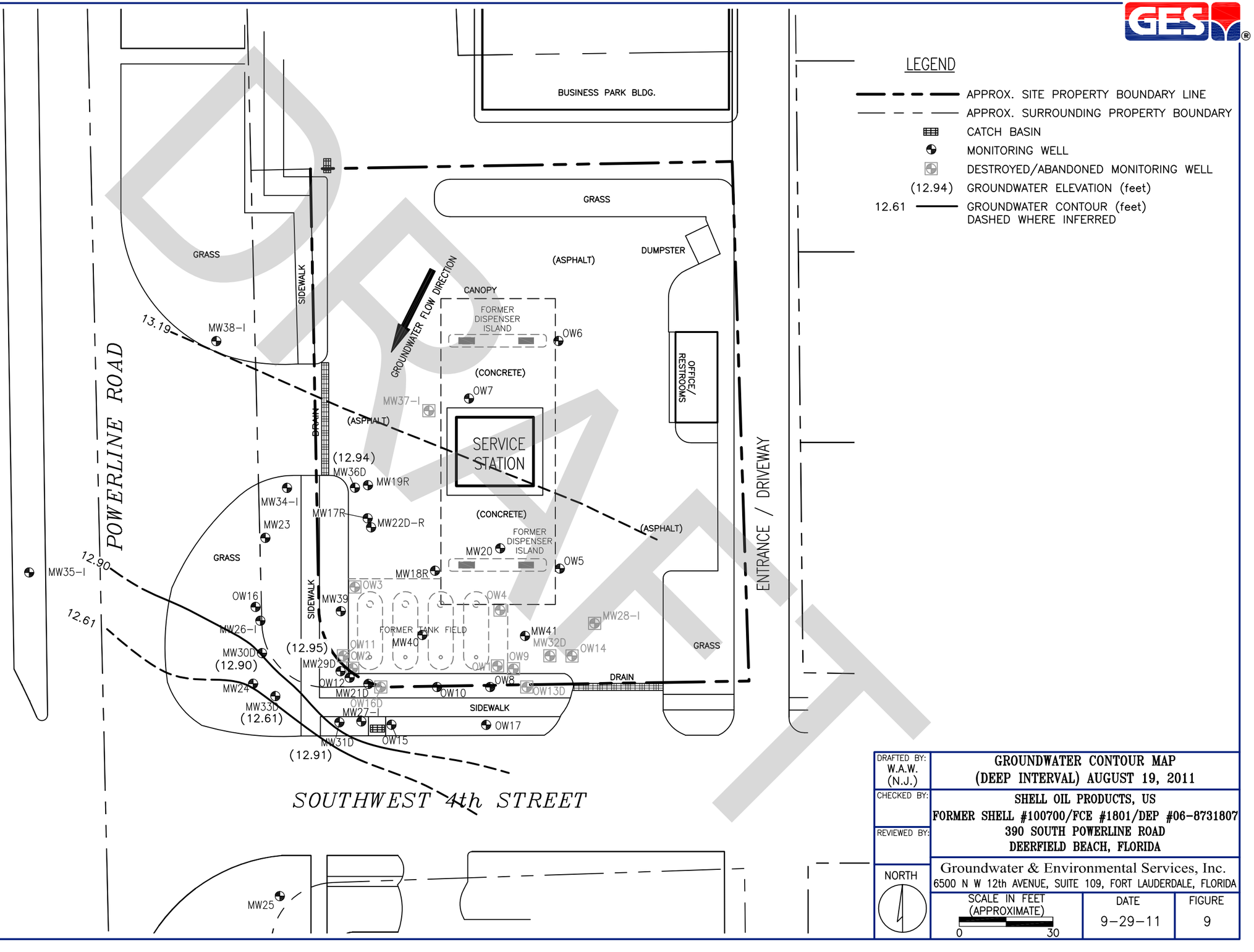


LEGEND

- APPROX. SITE PROPERTY BOUNDARY LINE
- APPROX. SURROUNDING PROPERTY BOUNDARY
- CATCH BASIN
- MONITORING WELL
- DESTROYED/ABANDONED MONITORING WELL
- (12.88) GROUNDWATER ELEVATION (feet)
- 12.91 GROUNDWATER CONTOUR (feet) DASHED WHERE INFERRED

DRAFTED BY: W.A.W. (N.J.)	GROUNDWATER CONTOUR MAP (INTERMEDIATE INTERVAL) AUGUST 19, 2011
CHECKED BY:	SHELL OIL PRODUCTS, US FORMER SHELL #100700/FCE #1801/DEP #06-8731807 390 SOUTH POWERLINE ROAD DEERFIELD BEACH, FLORIDA
REVIEWED BY:	
NORTH	Groundwater & Environmental Services, Inc. 6500 N W 12th AVENUE, SUITE 109, FORT LAUDERDALE, FLORIDA
SCALE IN FEET (APPROXIMATE) 0 30	DATE 9-29-11 / FIGURE 8

M:\Graphics\2600-Fort_Lauderdale\Shell\100700 (FCE 1801) Deerfield Beach\100700 (FCE 1801) deerfield beach SM.dwg, 9/29/2011 9:35:51 AM, WWesterlund



LEGEND

- APPROX. SITE PROPERTY BOUNDARY LINE
- APPROX. SURROUNDING PROPERTY BOUNDARY
- CATCH BASIN
- MONITORING WELL
- DESTROYED/ABANDONED MONITORING WELL
- (12.94) GROUNDWATER ELEVATION (feet)
- 12.61 GROUNDWATER CONTOUR (feet) DASHED WHERE INFERRED

DRAFTED BY: W.A.W. (N.J.)	GROUNDWATER CONTOUR MAP (DEEP INTERVAL) AUGUST 19, 2011
CHECKED BY:	SHELL OIL PRODUCTS, US FORMER SHELL #100700/FCE #1801/DEP #06-8731807 390 SOUTH POWERLINE ROAD DEERFIELD BEACH, FLORIDA
REVIEWED BY:	Groundwater & Environmental Services, Inc. 6500 N W 12th AVENUE, SUITE 109, FORT LAUDERDALE, FLORIDA
NORTH	SCALE IN FEET (APPROXIMATE) 0 30 / DATE 9-29-11 / FIGURE 9

DRAFT

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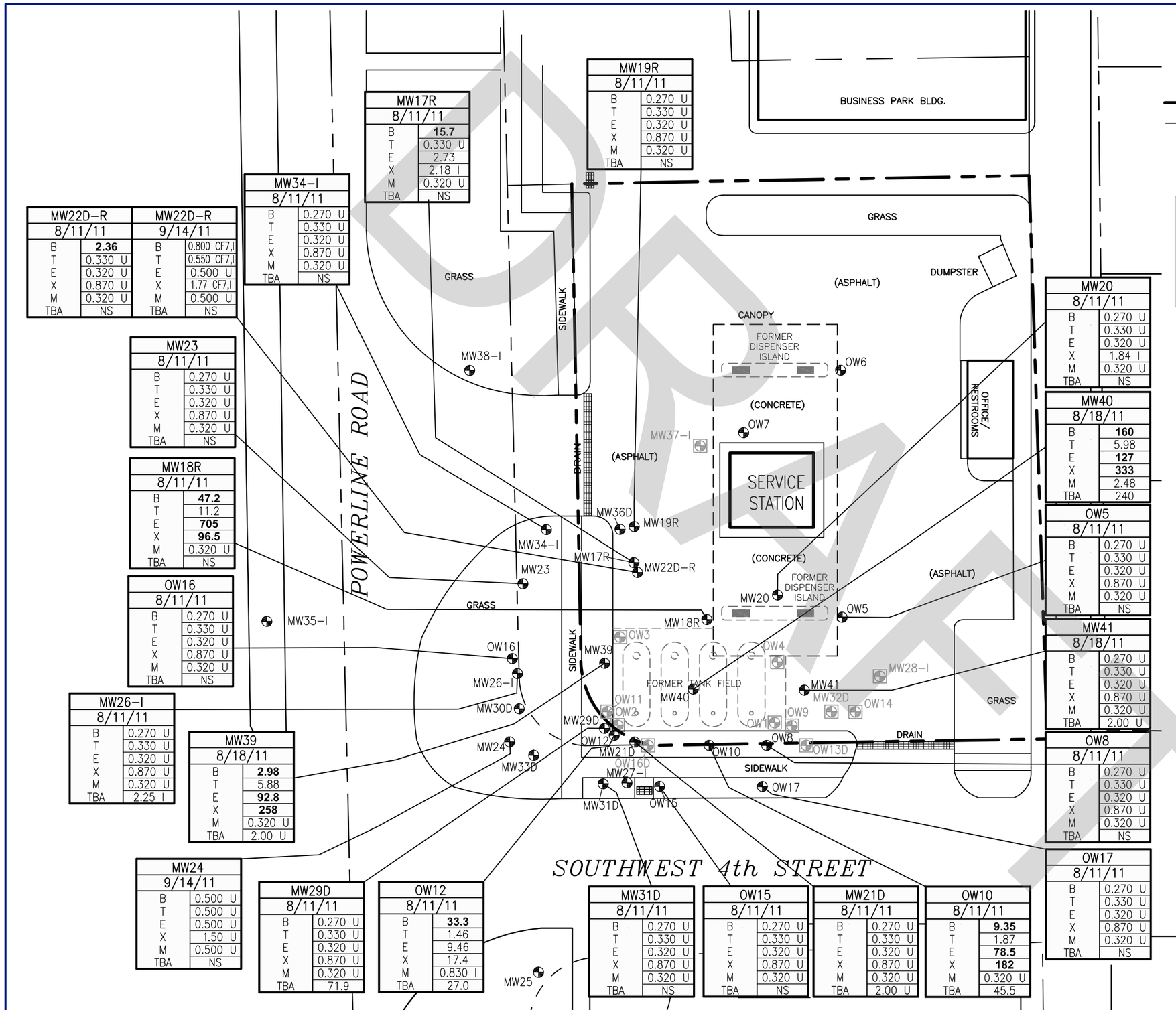

MW19R 8/11/11	
B	0.270 U
T	0.330 U
E	0.320 U
X	0.870 U
M	0.320 U
TBA	NS

MW17R 8/11/11	
B	**15.7**
T	0.330 U
E	2.73
X	2.18 I
M	0.320 U
TBA	NS

MW34-I 8/11/11	
B	0.270 U
T	0.330 U
E	0.320 U
X	0.870 U
M	0.320 U
TBA	NS

MW22D-R 8/11/11	
B	**2.36**
T	0.330 U
E	0.320 U
X	0.870 U
M	0.320 U
TBA	NS

MW22D-R 9/14/11	
B	0.800 CF7,I
T	0.550 CF7,I
E	0.500 U
X	1.77 CF7,I
M	0.500 U
TBA	NS

MW23 8/11/11	
B	0.270 U
T	0.330 U
E	0.320 U
X	0.870 U
M	0.320 U
TBA	NS

MW18R 8/11/11	
B	**47.2**
T	11.2
E	**705**
X	**96.5**
M	0.320 U
TBA	NS

OW16 8/11/11	
B	0.270 U
T	0.330 U
E	0.320 U
X	0.870 U
M	0.320 U
TBA	NS

MW26-I 8/11/11	
B	0.270 U
T	0.330 U
E	0.320 U
X	0.870 U
M	0.320 U
TBA	2.25 I

MW39 8/18/11	
B	**2.98**
T	5.88
E	**92.8**
X	**258**
M	0.320 U
TBA	2.00 U

MW24 9/14/11	
B	0.500 U
T	0.500 U
E	0.500 U
X	1.50 U
M	0.500 U
TBA	NS

MW29D 8/11/11	
B	0.270 U
T	0.330 U
E	0.320 U
X	0.870 U
M	0.320 U
TBA	71.9

OW12 8/11/11	
B	**33.3**
T	1.46
E	9.46
X	17.4
M	0.830 I
TBA	27.0

MW31D 8/11/11	
B	0.270 U
T	0.330 U
E	0.320 U
X	0.870 U
M	0.320 U
TBA	NS

OW15 8/11/11	
B	0.270 U
T	0.330 U
E	0.320 U
X	0.870 U
M	0.320 U
TBA	NS

MW21D 8/11/11	
B	0.270 U
T	0.330 U
E	0.320 U
X	0.870 U
M	0.320 U
TBA	2.00 U

OW10 8/11/11	
B	**9.35**
T	1.87
E	**78.5**
X	**182**
M	0.320 U
TBA	45.5

MW20 8/11/11	
B	0.270 U
T	0.330 U
E	0.320 U
X	1.84 I
M	0.320 U
TBA	NS

MW40 8/18/11	
B	**160**
T	5.98
E	**127**
X	**333**
M	2.48
TBA	240

OW5 8/11/11	
B	0.270 U
T	0.330 U
E	0.320 U
X	0.870 U
M	0.320 U
TBA	NS

MW41 8/18/11	
B	0.270 U
T	0.330 U
E	0.320 U
X	0.870 U
M	0.320 U
TBA	2.00 U

OW8 8/11/11	
B	0.270 U
T	0.330 U
E	0.320 U
X	0.870 U
M	0.320 U
TBA	NS

OW17 8/11/11	
B	0.270 U
T	0.330 U
E	0.320 U
X	0.870 U
M	0.320 U
TBA	NS

LEGEND

- APPROX. SITE PROPERTY BOUNDARY LINE
- APPROX. SURROUNDING PROPERTY BOUNDARY
- CATCH BASIN
- MONITORING WELL
- DESTROYED/ABANDONED MONITORING WELL

MW		SAMPLE LOCATION
VARIES		SAMPLE DATE
B	1	BENZENE CONCENTRATION (ug/L)
T	40	TOLUENE CONCENTRATION (ug/L)
E	30	ETHYLBENZENE CONCENTRATION (ug/L)
X	20	TOTAL XYLENES CONCENTRATION (ug/L)
M	20	MTBE CONCENTRATION (ug/L)
TBA	1,400	TBA CONCENTRATION (ug/L)

ug/L MICROGRAMS PER LITER
MTBE METHYL *tert*-BUTYL ETHER
TBA *tert*-BUTYL ALCOHOL

NOTE:

SEE LABORATORY ANALYTICAL REPORT AND/OR TABLES FOR DEFINITION OF DATA QUALIFIERS.

DRAFTED BY: W.A.W. (N.J.)

CHECKED BY:

REVIEWED BY:

GROUNDWATER ANALYTICAL MAP (BTEX/MTBE/TBA) AUGUST 11, 18 & SEPTEMBER 14, 2011

SHELL OIL PRODUCTS, US
FORMER SHELL #100700/FCE #1801/DEP #06-8731807
390 SOUTH POWERLINE ROAD
DEERFIELD BEACH, FLORIDA

Groundwater & Environmental Services, Inc.
6500 N W 12th AVENUE, SUITE 109, FORT LAUDERDALE, FLORIDA

NORTH

SCALE IN FEET (APPROXIMATE) 0 30

DATE 9-29-11

FIGURE 10

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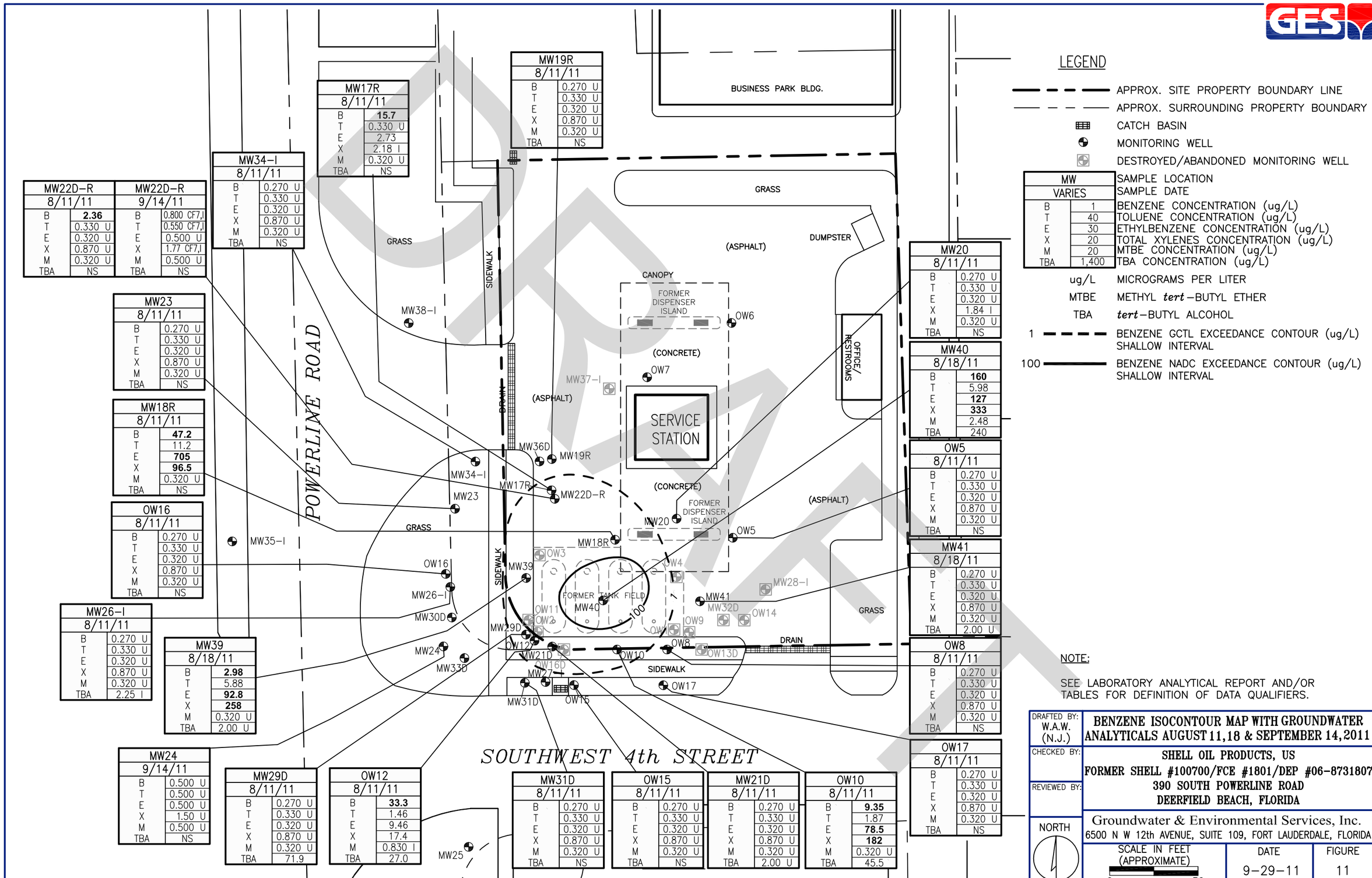


LEGEND

- APPROX. SITE PROPERTY BOUNDARY LINE
- APPROX. SURROUNDING PROPERTY BOUNDARY
- CATCH BASIN
- MONITORING WELL
- DESTROYED/ABANDONED MONITORING WELL

MW	SAMPLE LOCATION
VARIES	SAMPLE DATE
B 1	BENZENE CONCENTRATION (ug/L)
T 40	TOLUENE CONCENTRATION (ug/L)
E 30	ETHYLBENZENE CONCENTRATION (ug/L)
X 20	TOTAL XYLENES CONCENTRATION (ug/L)
M 20	MTBE CONCENTRATION (ug/L)
TBA 1,400	TBA CONCENTRATION (ug/L)

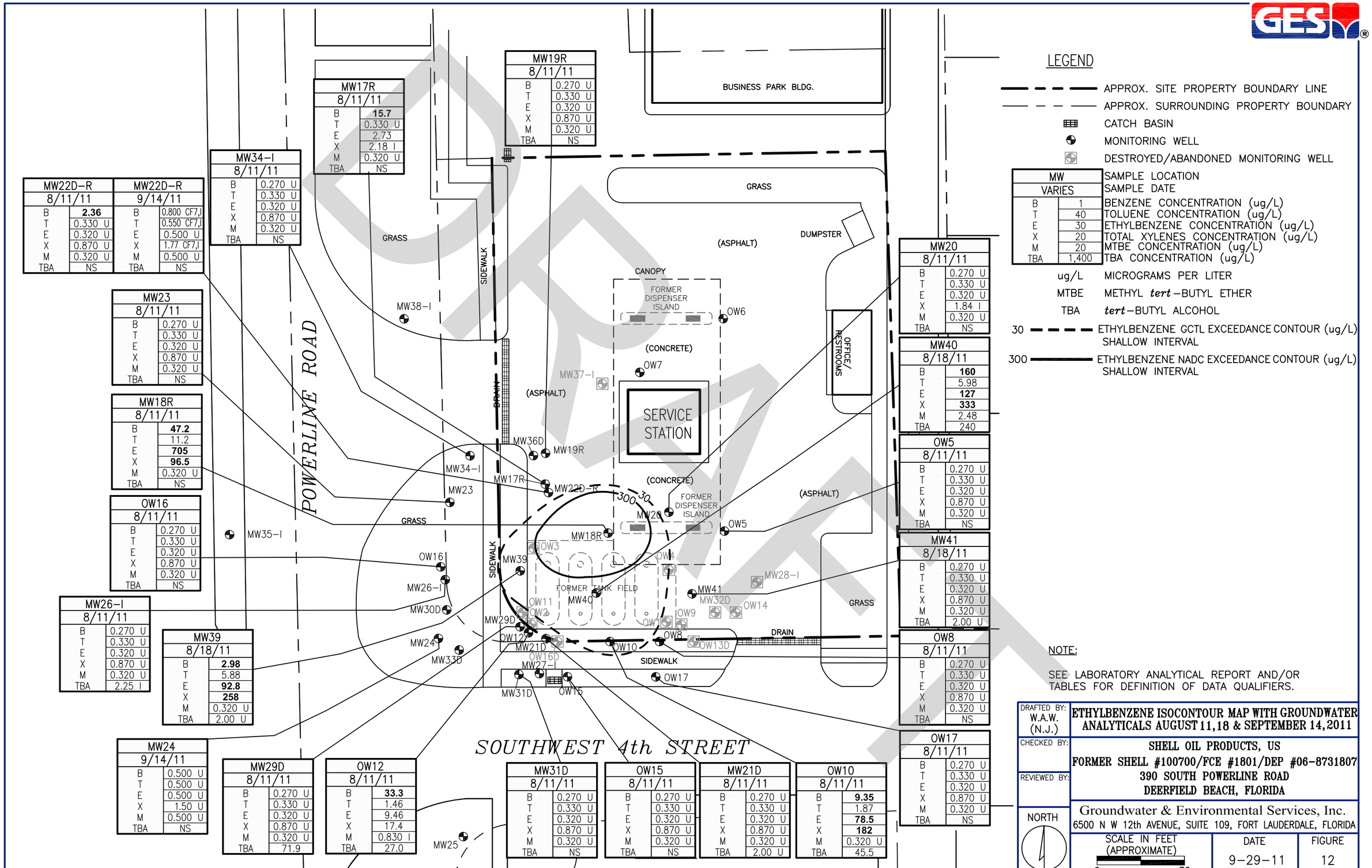
- ug/L — MICROGRAMS PER LITER
- MTBE — METHYL *tert*–BUTYL ETHER
- TBA — *tert*–BUTYL ALCOHOL
- 1 — BENZENE GCTL EXCEEDANCE CONTOUR (ug/L) SHALLOW INTERVAL
- 100 — BENZENE NADC EXCEEDANCE CONTOUR (ug/L) SHALLOW INTERVAL

NOTE:

SEE LABORATORY ANALYTICAL REPORT AND/OR TABLES FOR DEFINITION OF DATA QUALIFIERS.

DRAFTED BY: W.A.W. (N.J.)	BENZENE ISOCONTOUR MAP WITH GROUNDWATER ANALYTICALS AUGUST 11,18 & SEPTEMBER 14,2011
CHECKED BY:	SHELL OIL PRODUCTS, US FORMER SHELL #100700/FCE #1801/DEP #06-8731807 390 SOUTH POWERLINE ROAD DEERFIELD BEACH, FLORIDA
REVIEWED BY:	Groundwater & Environmental Services, Inc. 6500 N W 12th AVENUE, SUITE 109, FORT LAUDERDALE, FLORIDA
NORTH	SCALE IN FEET (APPROXIMATE) 0 30 / DATE 9–29–11 / FIGURE 11

M:\Graphics\2600-Fort_Lauderdale\Shell\100700 (FCE 1801) Deerfield Beach\100700 (FCE 1801) deerfield beach SM.dwg, 9/29/2011 9:36:55 AM, WWesterlund



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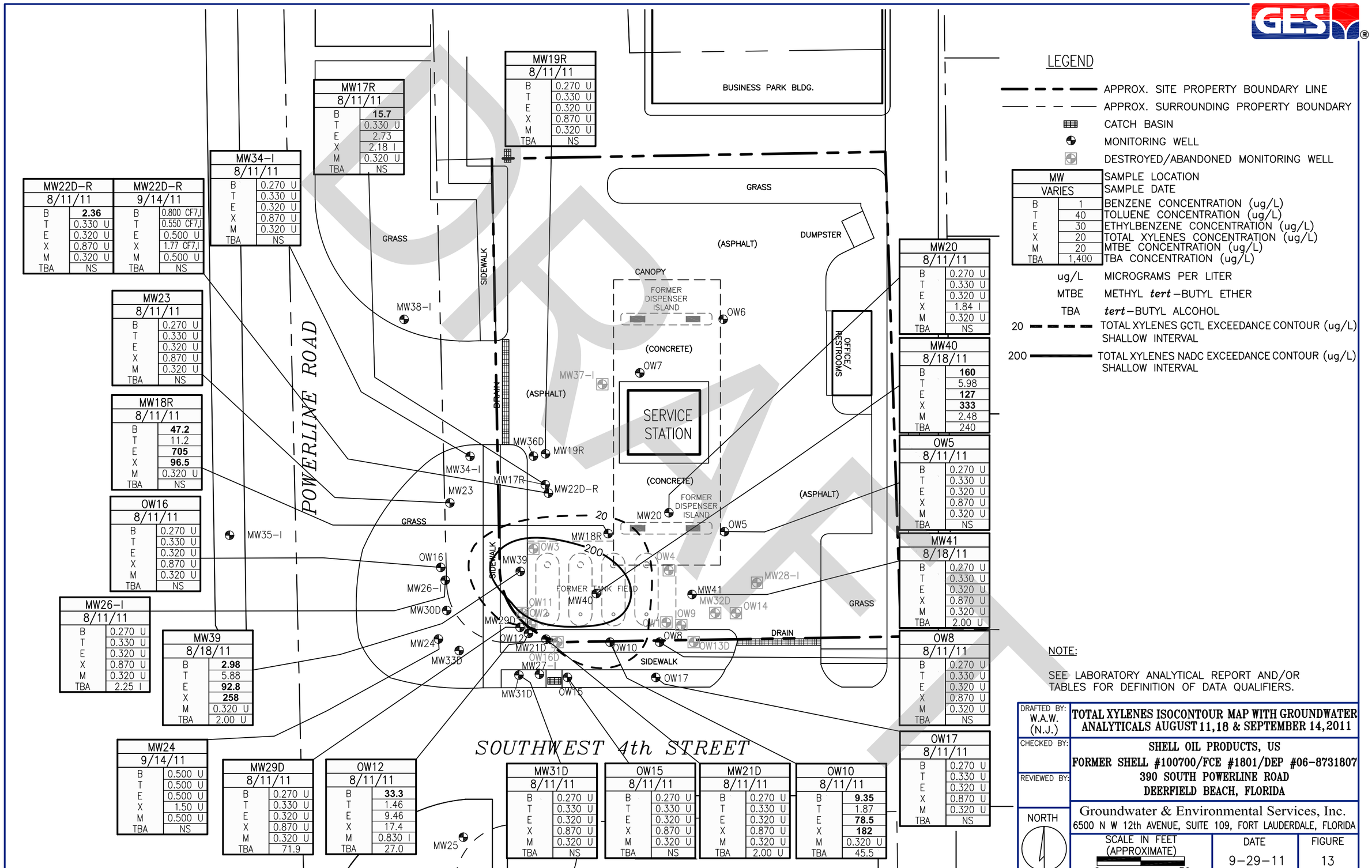
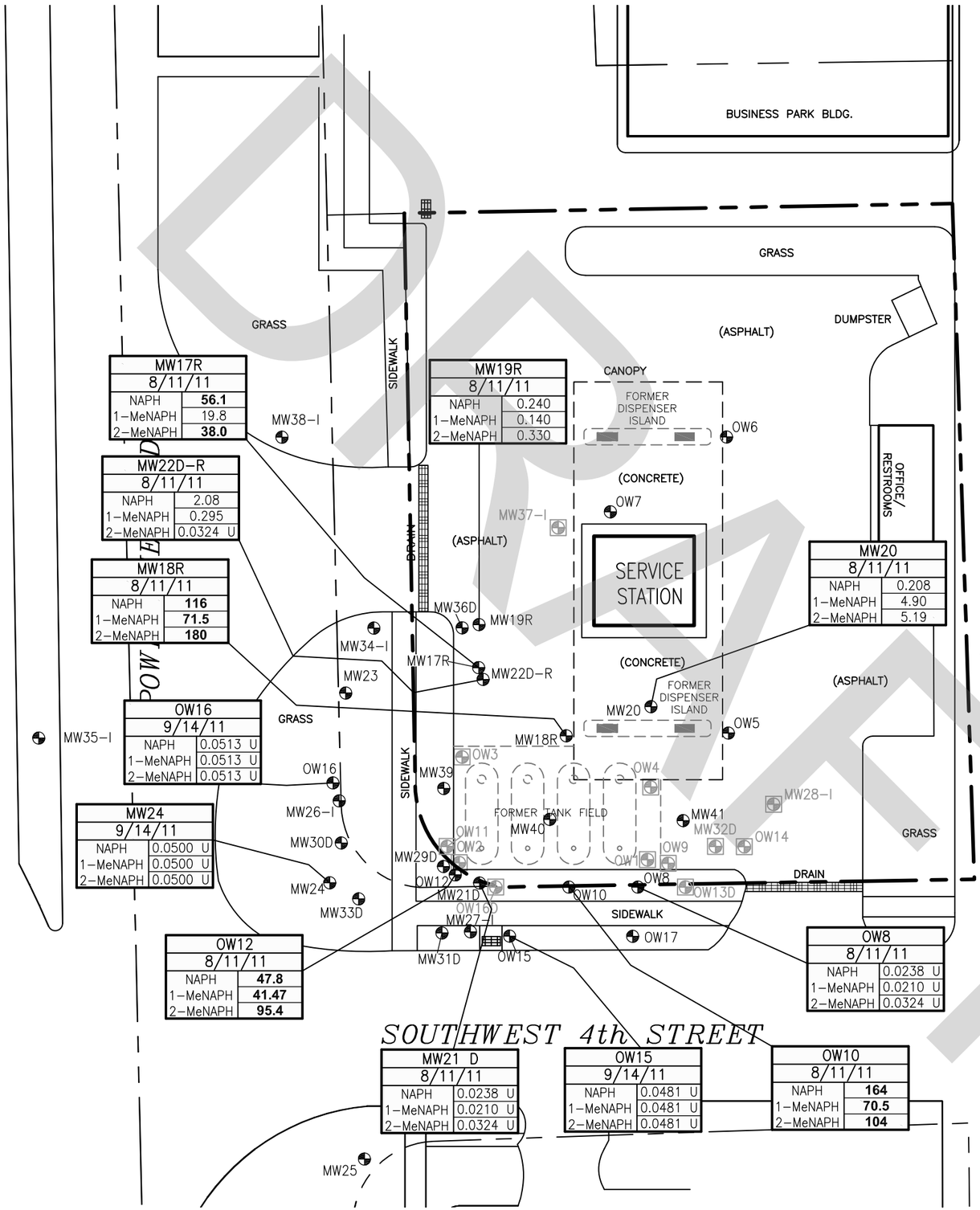

MW17R
8/11/11
B 15.7
T 0.330 U
E 2.73
X 2.18 I
M 0.320 U
TBA NS
MW19R
8/11/11
B 0.270 U
T 0.330 U
E 0.320 U
X 0.870 U
M 0.320 U
TBA NS
BUSINESS PARK BLDG.
MW34-I
8/11/11
B 0.270 U
T 0.330 U
E 0.320 U
X 0.870 U
M 0.320 U
TBA NS
MW22D-R
8/11/11
B 2.36
T 0.330 U
E 0.320 U
X 0.870 U
M 0.320 U
TBA NS
MW22D-R
9/14/11
B 0.800 CF7,I
T 0.550 CF7,I
E 0.500 U
X 1.77 CF7,I
M 0.500 U
TBA NS
GRASS
SIDEWALK
MW38-I
CANOPY
FORMER DISPENSER ISLAND
OW6
(CONCRETE)
OW7
MW37-I
(ASPHALT)
SERVICE STATION
DRAIN
MW36D
MW19R
MW34-I
MW17R
MW22D-R
MW23
GRASS
20
MW20
OW5
(ASPHALT)
DUMPSTER
OFFICE/ RESTROOMS
MW20
8/11/11
B 0.270 U
T 0.330 U
E 0.320 U
X 1.84 I
M 0.320 U
TBA NS
MW40
8/18/11
B 160
T 5.98
E 127
X 333
M 2.48
TBA 240
OW5
8/11/11
B 0.270 U
T 0.330 U
E 0.320 U
X 0.870 U
M 0.320 U
TBA NS
MW41
8/18/11
B 0.270 U
T 0.330 U
E 0.320 U
X 0.870 U
M 0.320 U
TBA 2.00 U
OW8
8/11/11
B 0.270 U
T 0.330 U
E 0.320 U
X 0.870 U
M 0.320 U
TBA NS
OW17
8/11/11
B 0.270 U
T 0.330 U
E 0.320 U
X 0.870 U
M 0.320 U
TBA NS
MW23
8/11/11
B 0.270 U
T 0.330 U
E 0.320 U
X 0.870 U
M 0.320 U
TBA NS
MW18R
8/11/11
B 47.2
T 11.2
E 705
X 96.5
M 0.320 U
TBA NS
OW16
8/11/11
B 0.270 U
T 0.330 U
E 0.320 U
X 0.870 U
M 0.320 U
TBA NS
MW35-I
POWERLINE ROAD
OW16
MW26-I
MW39
OW3
OW4
MW28-I
FORMER TANK FIELD
MW40
MW41
MW32D
OW14
OW11
OW2
OW1
OW9
MW29D
OW12
MW21D
OW16D
OW10
OW8
OW13D
DRAIN
SIDEWALK
MW27-I
OW17
MW31D
OW15
MW26-I
8/11/11
B 0.270 U
T 0.330 U
E 0.320 U
X 0.870 U
M 0.320 U
TBA 2.25 I
MW39
8/18/11
B 2.98
T 5.88
E 92.8
X 258
M 0.320 U
TBA 2.00 U
MW30D
MW24
MW33D
200
MW24
9/14/11
B 0.500 U
T 0.500 U
E 0.500 U
X 1.50 U
M 0.500 U
TBA NS
MW29D
8/11/11
B 0.270 U
T 0.330 U
E 0.320 U
X 0.870 U
M 0.320 U
TBA 71.9
OW12
8/11/11
B 33.3
T 1.46
E 9.46
X 17.4
M 0.830 I
TBA 27.0
SOUTHWEST 4th STREET
MW25
MW31D
8/11/11
B 0.270 U
T 0.330 U
E 0.320 U
X 0.870 U
M 0.320 U
TBA NS
OW15
8/11/11
B 0.270 U
T 0.330 U
E 0.320 U
X 0.870 U
M 0.320 U
TBA NS
MW21D
8/11/11
B 0.270 U
T 0.330 U
E 0.320 U
X 0.870 U
M 0.320 U
TBA 2.00 U
OW10
8/11/11
B 9.35
T 1.87
E 78.5
X 182
M 0.320 U
TBA 45.5
LEGEND
APPROX. SITE PROPERTY BOUNDARY LINE
APPROX. SURROUNDING PROPERTY BOUNDARY
CATCH BASIN
MONITORING WELL
DESTROYED/ABANDONED MONITORING WELL
MW SAMPLE LOCATION
VARIES SAMPLE DATE
B 1 BENZENE CONCENTRATION (ug/L)
T 40 TOLUENE CONCENTRATION (ug/L)
E 30 ETHYLBENZENE CONCENTRATION (ug/L)
X 20 TOTAL XYLENES CONCENTRATION (ug/L)
M 20 MTBE CONCENTRATION (ug/L)
TBA 1,400 TBA CONCENTRATION (ug/L)
ug/L MICROGRAMS PER LITER
MTBE METHYL tert-BUTYL ETHER
TBA tert-BUTYL ALCOHOL
20 TOTAL XYLENES GCTL EXCEEDANCE CONTOUR (ug/L) SHALLOW INTERVAL
200 TOTAL XYLENES NADC EXCEEDANCE CONTOUR (ug/L) SHALLOW INTERVAL
NOTE:
SEE LABORATORY ANALYTICAL REPORT AND/OR TABLES FOR DEFINITION OF DATA QUALIFIERS.
DRAFTED BY: W.A.W. (N.J.)
CHECKED BY:
REVIEWED BY:
TOTAL XYLENES ISOCONTOUR MAP WITH GROUNDWATER ANALYTICALS AUGUST 11,18 & SEPTEMBER 14,2011
SHELL OIL PRODUCTS, US
FORMER SHELL #100700/FCE #1801/DEP #06-8731807
390 SOUTH POWERLINE ROAD
DEERFIELD BEACH, FLORIDA
NORTH
Groundwater & Environmental Services, Inc.
6500 N W 12th AVENUE, SUITE 109, FORT LAUDERDALE, FLORIDA
SCALE IN FEET (APPROXIMATE)
0 30
DATE 9-29-11
FIGURE 13
M:\Graphics\2600-Fort_Lauderdale\Shell\100700 (FCE 1801) Deerfield Beach\100700 (FCE 1801) deerfield beach SM.dwg, 9/29/2011 9:36:55 AM, WWesterlund



LEGEND

- APPROX. SITE PROPERTY BOUNDARY LINE
- APPROX. SURROUNDING PROPERTY BOUNDARY
- CATCH BASIN
- MONITORING WELL
- DESTROYED/ABANDONED MONITORING WELL

MW
VARIES
NAPH 14
1-MeNAPH 28
2-MeNAPH 28

- SAMPLE LOCATION
- SAMPLE DATE
- NAPHTHALENE CONCENTRATION (ug/L)
- 1-MeNAPH CONCENTRATION (ug/L)
- 2-MeNAPH CONCENTRATION (ug/L)

ug/L MICROGRAMS PER LITER

1-MeNAPH 1-METHYLNAPHTHALENE

2-MeNAPH 2-METHYLNAPHTHALENE

NOTE:

SEE LABORATORY ANALYTICAL REPORT AND/OR TABLES FOR DEFINITION OF DATA QUALIFIERS.

DRAFTED BY: W.A.W. (N.J.)

CHECKED BY:

REVIEWED BY:

NORTH

GROUNDWATER ANALYTICAL MAP (PAHs) AUGUST 11, & SEPTEMBER 14, 2011

SHELL OIL PRODUCTS, US

FORMER SHELL #100700/FCE #1801/DEP #06-8731807

390 SOUTH POWERLINE ROAD

DEERFIELD BEACH, FLORIDA

Groundwater & Environmental Services, Inc.

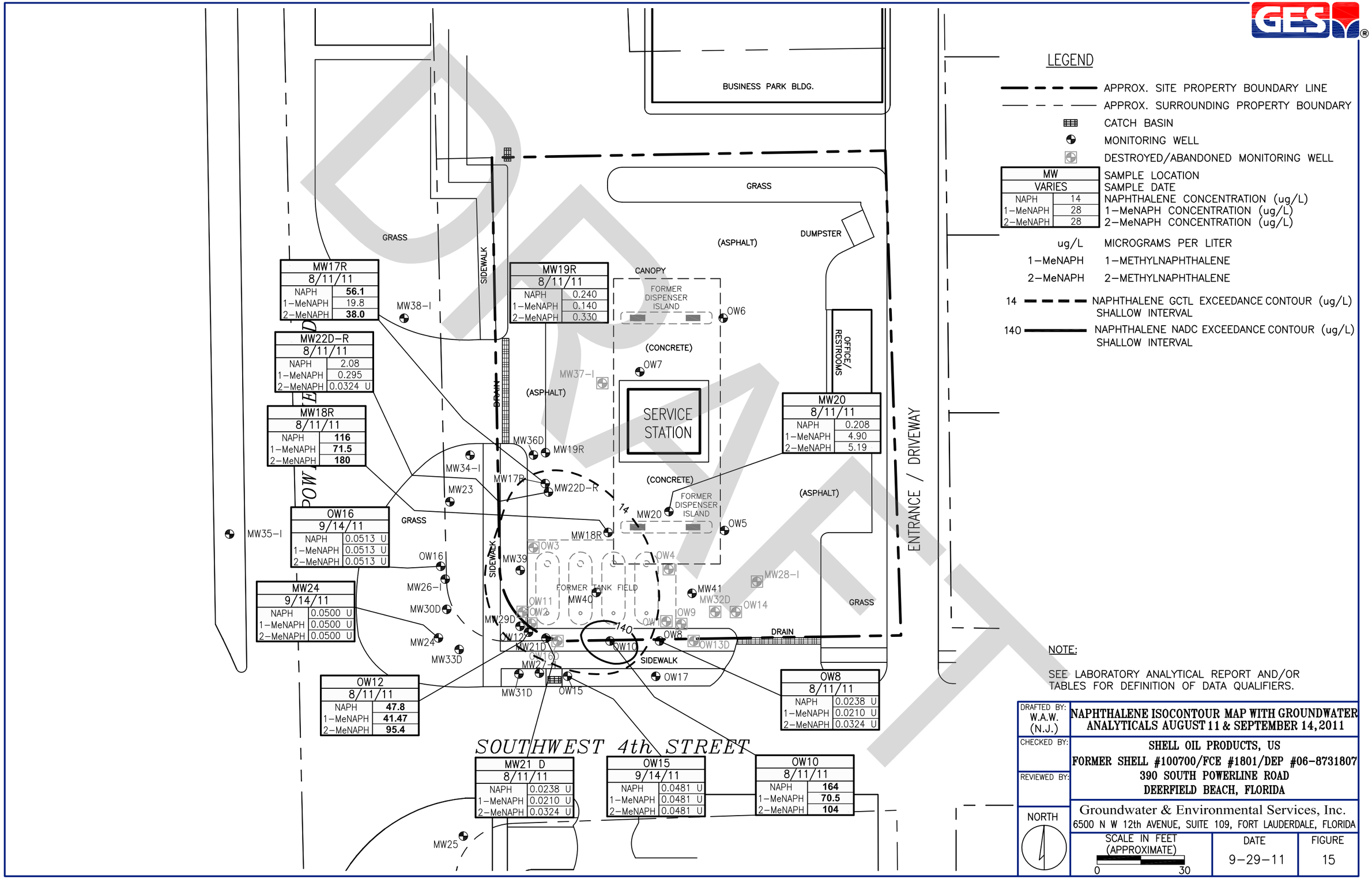
6500 N W 12th AVENUE, SUITE 109, FORT LAUDERDALE, FLORIDA

SCALE IN FEET (APPROXIMATE) 0 30

DATE 9-29-11

FIGURE 14

M:\Graphics\2600-Fort_Lauderdale\Shell\100700 (FCE 1801) Deerfield Beach\100700 (FCE 1801) deerfield beach SM.dwg, 9/29/2011 9:37:49 AM, WWesterlund



LEGEND

- APPROX. SITE PROPERTY BOUNDARY LINE
- APPROX. SURROUNDING PROPERTY BOUNDARY
- CATCH BASIN
- MONITORING WELL
- DESTROYED/ABANDONED MONITORING WELL

MW
VARIES
NAPH 14
1-MeNAPH 28
2-MeNAPH 28

- SAMPLE LOCATION
- SAMPLE DATE
- NAPHTHALENE CONCENTRATION (ug/L)
- 1-MeNAPH CONCENTRATION (ug/L)
- 2-MeNAPH CONCENTRATION (ug/L)

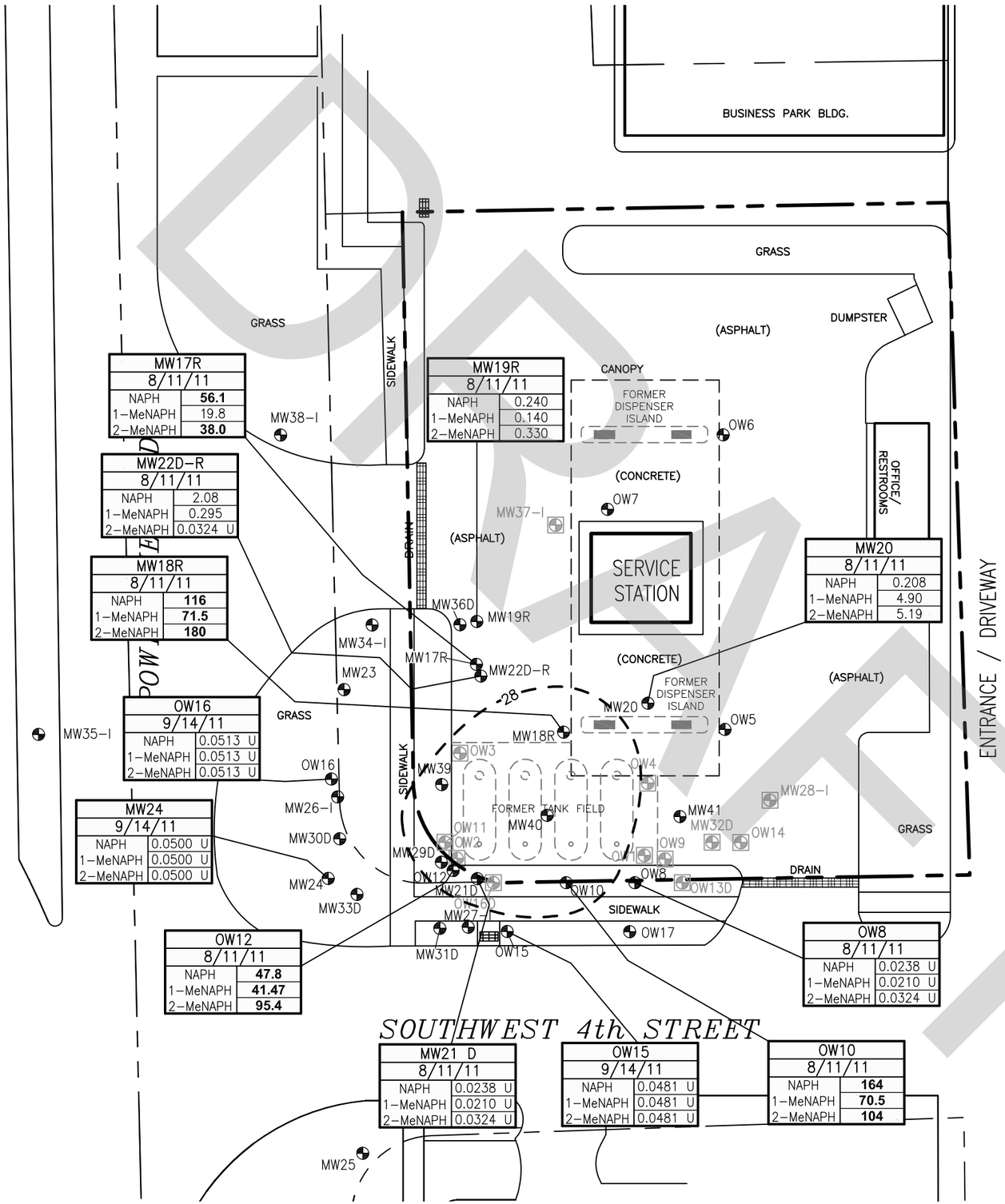
- ug/L — MICROGRAMS PER LITER
- 1-MeNAPH — 1-METHYLNAPHTHALENE
- 2-MeNAPH — 2-METHYLNAPHTHALENE
- 14 — NAPHTHALENE GCTL EXCEEDANCE CONTOUR (ug/L) SHALLOW INTERVAL
- 140 — NAPHTHALENE NADC EXCEEDANCE CONTOUR (ug/L) SHALLOW INTERVAL

NOTE:

SEE LABORATORY ANALYTICAL REPORT AND/OR TABLES FOR DEFINITION OF DATA QUALIFIERS.

DRAFTED BY: W.A.W. (N.J.)	NAPHTHALENE ISOCONTOUR MAP WITH GROUNDWATER ANALYTICALS AUGUST 11 & SEPTEMBER 14, 2011
CHECKED BY:	SHELL OIL PRODUCTS, US FORMER SHELL #100700/FCE #1801/DEP #06-8731807 390 SOUTH POWERLINE ROAD DEERFIELD BEACH, FLORIDA
REVIEWED BY:	Groundwater & Environmental Services, Inc. 6500 N W 12th AVENUE, SUITE 109, FORT LAUDERDALE, FLORIDA
NORTH	SCALE IN FEET (APPROXIMATE) 0 30 / DATE 9-29-11 / FIGURE 15

M:\Graphics\2600-Fort_Lauderdale\Shell\100700 (FCE 1801) Deerfield Beach\100700 (FCE 1801) deerfield beach SM.dwg, 9/29/2011 9:37:49 AM, WWesterlund



LEGEND

- APPROX. SITE PROPERTY BOUNDARY LINE
- APPROX. SURROUNDING PROPERTY BOUNDARY
- CATCH BASIN
- MONITORING WELL
- DESTROYED/ABANDONED MONITORING WELL

MW
VARIES
NAPH 14
1-MeNAPH 28
2-MeNAPH 28

- SAMPLE LOCATION
- SAMPLE DATE
- NAPHTHALENE CONCENTRATION (ug/L)
- 1-MeNAPH CONCENTRATION (ug/L)
- 2-MeNAPH CONCENTRATION (ug/L)

ug/L MICROGRAMS PER LITER

1-MeNAPH 1-METHYLNAPHTHALENE

2-MeNAPH 2-METHYLNAPHTHALENE

28 1-METHYLNAPHTHALENE GCTL EXCEEDANCE CONTOUR (ug/L) SHALLOW INTERVAL

NOTE:

SEE LABORATORY ANALYTICAL REPORT AND/OR TABLES FOR DEFINITION OF DATA QUALIFIERS.

DRAFTED BY: W.A.W. (N.J.)	1-METHYLNAPHTHALENE ISOCONTOUR MAP WITH GROUNDWATER ANALYTICALS AUGUST 11 & SEPTEMBER 14, 2011
CHECKED BY:	SHELL OIL PRODUCTS, US FORMER SHELL #100700/FCE #1801/DEP #06-8731807 390 SOUTH POWERLINE ROAD DEERFIELD BEACH, FLORIDA
REVIEWED BY:	Groundwater & Environmental Services, Inc. 6500 N W 12th AVENUE, SUITE 109, FORT LAUDERDALE, FLORIDA
NORTH	SCALE IN FEET (APPROXIMATE) 0 30 / DATE 9-29-11 / FIGURE 16

DRAFT

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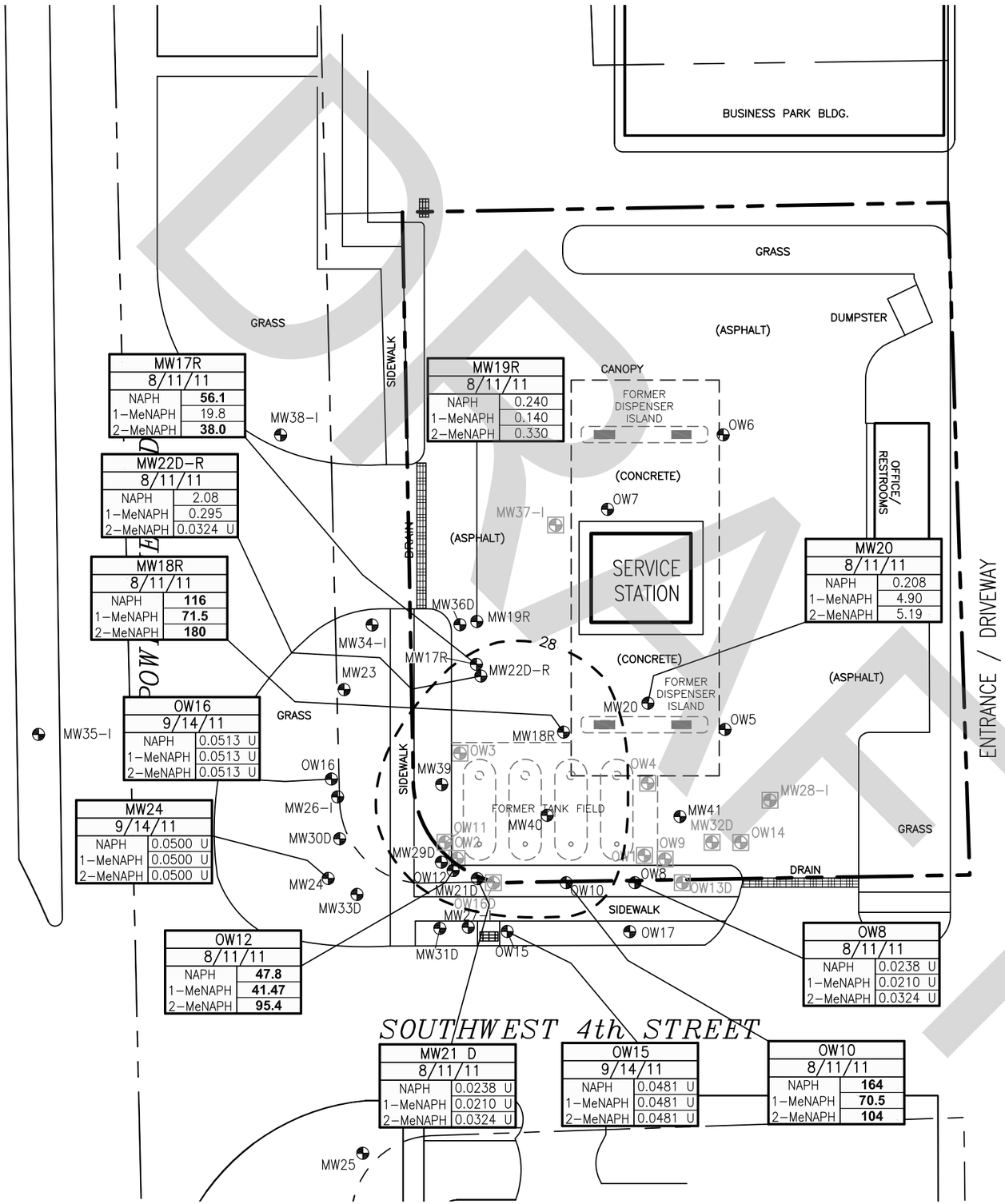

LEGEND

- APPROX. SITE PROPERTY BOUNDARY LINE
- APPROX. SURROUNDING PROPERTY BOUNDARY
- CATCH BASIN
- MONITORING WELL
- DESTROYED/ABANDONED MONITORING WELL

MW
VARIES
NAPH 14
1-MeNAPH 28
2-MeNAPH 28

- SAMPLE LOCATION
- SAMPLE DATE
- NAPHTHALENE CONCENTRATION (ug/L)
- 1-MeNAPH CONCENTRATION (ug/L)
- 2-MeNAPH CONCENTRATION (ug/L)

ug/L MICROGRAMS PER LITER

1-MeNAPH 1-METHYLNAPHTHALENE

2-MeNAPH 2-METHYLNAPHTHALENE

28 2-METHYLNAPHTHALENE GCTL EXCEEDANCE CONTOUR (ug/L) SHALLOW INTERVAL

NOTE:

SEE LABORATORY ANALYTICAL REPORT AND/OR TABLES FOR DEFINITION OF DATA QUALIFIERS.

DRAFTED BY: W.A.W. (N.J.)	2-METHYLNAPHTHALENE ISOCONTOUR MAP WITH GROUNDWATER ANALYTICALS AUGUST 11 & SEPTEMBER 14, 2011
CHECKED BY:	SHELL OIL PRODUCTS, US FORMER SHELL #100700/FCE #1801/DEP #06-8731807 390 SOUTH POWERLINE ROAD DEERFIELD BEACH, FLORIDA
REVIEWED BY:	Groundwater & Environmental Services, Inc. 6500 N W 12th AVENUE, SUITE 109, FORT LAUDERDALE, FLORIDA
NORTH	SCALE IN FEET (APPROXIMATE) 0 30 / DATE 9-29-11 / FIGURE 17

DRAFT

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TABLES

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Table 1

SUMMARY OF SCREENING RESULTS

First Coast Energy #1801/Former Shell Service Station #100700
390 South Powerline Road
Deerfield Beach, Broward County, Florida
FDEP Facility ID No. 06/8731807

Soil Boring Identification	Date Sampled	Depth Sampled	OVA without Carbon Filter (ppm)	OVA with Carbon Filter (ppm)	Corrected OVA Results (ppm)
SB-1	17-Aug-05 high lab sample	0-2'	4,416	148	4,268
		2-4'	>5,000	1,505	>3,496
		4-6'	>5,000	2,029	>2,971
	sat. lab sample	6-8'	>5,000	>5,000	>5,000
SB-2	17-Aug-05 low lab sample	0-2'	1	<1	1
		2-4'	2	<1	2
		4-6'	3	3	3
		6-8'	4,365	2,818	1,547
		8-10'	>5,000	3,516	>1,484
SB-3	17-Aug-05 medium lab sample	0-2'	1,810	360	1,450
		2-4'	784	116	668
		4-6'	3,074	704	2,370
		6-8'	>5,000	3,002	>1,998
SB-4	17-Aug-05 medium lab sample	0-2'	1,832	105	1,727
		2-4'	102	16	86
		4-6'	1,822	150	1,672
		6-8'	>5,000	206	>4,794
SB-5	17-Aug-05	0-2'	2	<1	2
		2-4'	<1	<1	<1
		4-6'	<1	<1	<1
		6-8'	2	<1	2
SB-6	17-Aug-05	0-2'	<1	<1	<1
		2-4'	<1	<1	<1
		4-6'	<1	<1	<1
		6-8'	<1	<1	<1
SB-7	17-Aug-05	0-2'	<1	<1	<1
		2-4'	<1	<1	<1
		4-6'	3	<1	3
		6-8'	2	<1	2
SB-8	17-Aug-05	0-2'	<1	<1	<1
		2-4'	<1	<1	<1
		4-6'	<1	<1	<1
		6-8'	3	<1	3
SB-9	17-Aug-05 high lab sample	0-2'	520	5	515
		2-4'	3,015	50	2,965
		4-6'	3,962	62	3,900
		6-8'	>5,000	2,491	>2509
SB-10	17-Aug-05	0-2'	<1	<1	<1
		2-4'	<1	<1	<1
		4-6'	<1	<1	<1
		6-8'	<1	<1	<1

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Table 1

SUMMARY OF SCREENING RESULTS

First Coast Energy #1801/Former Shell Service Station #100700
390 South Powerline Road
Deerfield Beach, Broward County, Florida
FDEP Facility ID No. 06/8731807

Soil Boring Identification	Date Sampled	Depth Sampled	OVA without Carbon Filter (ppm)	OVA with Carbon Filter (ppm)	Corrected OVA Results (ppm)
SB-11	17-Aug-05	0-2'	<1	<1	<1
		2-4'	<1	<1	<1
		4-6'	<1	<1	<1
		6-8'	<1	<1	<1
SB-12	17-Aug-05	0-2'	<1	<1	<1
		2-4'	<1	<1	<1
		4-6'	<1	<1	<1
		6-8'	<1	<1	<1
SS-1	24-May-10	4-6'	NA	NA	177
SS-2	24-May-10	6-8'	NA	NA	118
SS-3	24-May-10	4-6'	NA	NA	310
SS-4	24-May-10	6-8'	NA	NA	1,202
SB-4A	2-Aug-11	0-2'	NA	NA	BDL
		2-4'	NA	NA	BDL
		4-6'	NA	NA	0.7
		6-8'	NA	NA	1,600
SS-5	24-May-10	6-8'	NA	NA	111
SS-6	24-May-10	4-6'	NA	NA	113
SS-7	26-May-10	4-6'	NA	NA	21.6
SS-8	26-May-10	4-6'	NA	NA	BDL
SS-9	26-May-10	4-6'	NA	NA	2.8
SS-10	14-Sep-11	0-2'	NA	NA	6.0
		2-4'	NA	NA	6.2
		4-6'	NA	NA	7.7
		6-8'	NA	NA	17.7
SS-11	14-Sep-11	0-2'	NA	NA	BDL
		2-4'	NA	NA	5.9
		4-6'	NA	NA	3.3
		6-8'	NA	NA	4.5
SS-12	14-Sep-11	0-2'	NA	NA	3.0
		2-4'	NA	NA	2.9
Field Screen 1	2-Jun-10	0-2'	NA	NA	140
Field Screen 2	2-Jun-10	0-2'	NA	NA	130
Field Screen 3	2-Jun-10	0-2'	NA	NA	1,530
Field Screen 4	2-Jun-10	0-2'	NA	NA	1,800
Field Screen 5	2-Jun-10	0-2'	NA	NA	110
Field Screen 6	2-Jun-10	0-2'	NA	NA	42.7
Field Screen 7	2-Jun-10	0-2'	NA	NA	38.8
Field Screen 8	2-Jun-10	0-2'	NA	NA	7.8
Field Screen 9	2-Jun-10	0-2'	NA	NA	5.2
Field Screen 10	2-Jun-10	0-2'	NA	NA	1.2
Field Screen 11	2-Jun-10	0-2'	NA	NA	2.4
Field Screen 12	2-Jun-10	0-2'	NA	NA	2.0
Field Screen 13	2-Jun-10	0-2'	NA	NA	4.9
Field Screen 14	2-Jun-10	0-2'	NA	NA	2.1
Field Screen 15	2-Jun-10	0-2'	NA	NA	1.3
Field Screen 16	2-Jun-10	0-2'	NA	NA	1.4
Field Screen 17	2-Jun-10	0-2'	NA	NA	2.2
Field Screen 18	2-Jun-10	0-2'	NA	NA	2.7
Field Screen 19	2-Jun-10	0-2'	NA	NA	1.0
Field Screen 20	2-Jun-10	0-2'	NA	NA	1.3
OW-17	13-Jul-07	0-2'	NA	NA	5
		2-4'	NA	NA	8
		4-6'	NA	NA	8

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Table 1

SUMMARY OF SCREENING RESULTS

First Coast Energy #1801/Former Shell Service Station #100700
390 South Powerline Road
Deerfield Beach, Broward County, Florida
FDEP Facility ID No. 06/8731807

Soil Boring Identification	Date Sampled	Depth Sampled	OVA without Carbon Filter (ppm)	OVA with Carbon Filter (ppm)	Corrected OVA Results (ppm)
MW-17R	2-Aug-11	0-2'	NA	NA	BDL
		2-4'	NA	NA	BDL
		4-6'	NA	NA	115
		6-8'	NA	NA	1.2
MW-18R	2-Aug-11	0-2'	NA	NA	BDL
		2-4'	NA	NA	50.1
		4-6'	NA	NA	196
		6-8'	NA	NA	573
MW-19R	2-Aug-11	0-2'	NA	NA	BDL
		2-4'	NA	NA	BDL
		4-6'	NA	NA	BDL
		6-8'	NA	NA	BDL
MW-20	7-Sep-05	0-2'	<1	<1	<1
		2-4'	<1	<1	<1
		4-6'	<1	<1	<1
MW-21D	7-Sep-05	0-2'	<1	<1	<1
		2-4'	>10,000	167	>9,833
		4-6'	600	110	490
MW-22D	7-Sep-05	0-2'	>10,000	30	>9,970
		2-4'	>10,000	22	>9,978
		4-6'	>10,000	28	>9,972
MW-22D-R	2-Aug-11	0-2'	NA	NA	BDL
		2-4'	NA	NA	BDL
		4-6'	NA	NA	BDL
		6-8'	NA	NA	BDL
MW-23	15-Sep-06	0-2'	BDL	BDL	BDL
		2-4'	BDL	BDL	BDL
		4-6'	BDL	BDL	BDL
MW-24	15-Sep-06	0-2'	BDL	BDL	BDL
		2-4'	BDL	BDL	BDL
		4-6'	BDL	BDL	BDL
MW-25	15-Sep-06	0-2'	BDL	BDL	BDL
		2-4'	BDL	BDL	BDL
		4-6'	BDL	BDL	BDL
MW-26I	26-Mar-07	0-2'	BDL	BDL	BDL
		2-4'	BDL	BDL	BDL
		4-6'	BDL	BDL	BDL
MW-27I	26-Mar-07	0-2'	BDL	BDL	BDL
		2-4'	BDL	BDL	BDL
		4-6'	BDL	BDL	BDL

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Table 1

SUMMARY OF SCREENING RESULTS

First Coast Energy #1801/Former Shell Service Station #100700
390 South Powerline Road
Deerfield Beach, Broward County, Florida
FDEP Facility ID No. 06/8731807

Soil Boring Identification	Date Sampled	Depth Sampled	OVA without Carbon Filter (ppm)	OVA with Carbon Filter (ppm)	Corrected OVA Results (ppm)
MW-28I	26-Mar-07	0-2'	BDL	BDL	BDL
		2-4'	BDL	BDL	BDL
		4-6'	BDL	BDL	BDL
MW-29D	26-Mar-07	0-2'	BDL	BDL	BDL
		2-4'	BDL	BDL	BDL
		4-6'	BDL	BDL	BDL
MW-30D	12-Jul-07	0-2'	NA	NA	42
		2-4'	NA	NA	38
		4-6'	NA	NA	33
MW-31D	12-Jul-07	0-2'	NA	NA	11
		2-4'	NA	NA	11
		4-6'	NA	NA	22
MW-32D	13-Jul-07	0-2'	NA	NA	10
		2-4'	NA	NA	13
		4-6'	NA	NA	66
MW-33D	12-Jul-07	0-2'	NA	NA	27
		2-4'	NA	NA	21
		4-6'	NA	NA	19
MW-34I	20-Aug-08	0-2'	NA	NA	BDL
		2-4'	NA	NA	BDL
		4-6'	NA	NA	BDL
MW-35I	20-Aug-08	0-2'	NA	NA	18
		2-4'	NA	NA	5.2
		4-6'	NA	NA	5
MW-36D	20-Aug-08	0-2'	NA	NA	BDL
		2-4'	NA	NA	2.2
		4-6'	NA	NA	BDL
MW-37I	16-Oct-08	0-2'	NA	NA	8.4
		2-4'	NA	NA	10
		4-6'	NA	NA	7.6
MW-38I	16-Oct-08	0-2'	NA	NA	BDL
		2-4'	NA	NA	1.1
		4-6'	NA	NA	NS
MW-39	17-Aug-11	0-2'	NA	NA	BDL
		2-4'	NA	NA	1.4
		4-6'	NA	NA	8.1
		6-8'	NA	NA	9.1
MW-40	17-Aug-11	0-2'	NA	NA	BDL
		2-4'	NA	NA	BDL
		4-6'	NA	NA	88.3
		6-8'	NA	NA	614
MW-41	17-Aug-11	0-2'	NA	NA	BDL
		2-4'	NA	NA	BDL
		4-6'	NA	NA	BDL
		6-8'	NA	NA	BDL

NOTES:
ppm- parts per million.
OVA - Organic Vapor Analyzer TVA-1000 model for 2005-2006 events.
OVA - Organic Vapor Analyzer MiniRae 2000 model for 2007-2011 events.
BDL- Below Detection Limits 1 parts per million (ppm)
NA- Data Not Available

DRAFT

Table 2

SOIL ANALYTICAL SUMMARY
(BTEX/MTBE/TRPH)

First Coast Energy #1801/Former Shell Service Station #100700
390 South Powerline Road
Deerfield Beach, Broward County, Florida
FDEP Facility ID No. 06/8731807

Sample Identification	Date Sampled	Depth Interval (ft.)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	TRPH (mg/kg)
SCTL - Comm./Industrial Direct Exposure			**1.7**	**60,000**	**9,200**	**700**	**24,000**	**2,700**
SCTL - Residential Direct Exposure			**1.2**	**7,500**	**1,500**	**130**	**4,400**	**460**
SCTL - Leachability			**0.007**	**0.5**	**0.6**	**0.2**	**0.09**	**340**
SB-1	08/17/2005	2-4	0.0063	0.0023	0.0032	0.0222	0.031	21
		6-8	**4.7**	**140**	**85**	**440**	**0.620**	82
SB-2	08/17/2005	4-6	<0.00091	<0.00024	<0.00091	<0.00053	<0.00033	17
SB-9	08/17/2005	4-6	**0.025**	0.059	0.011	0.161	0.380	25
SS-1	05/24/2010	4-6	0.0002 U	0.0003 U	0.0002 U	0.0002 U	0.0001 U	4.14 I
SS-2	05/24/2010	6-8	0.0002 U	0.0003 U	0.0002 U	0.0002 U	0.0001 U	6.58 I
SS-3	05/24/2010	4-6	0.0002 U	0.0003 U	0.0002 U	0.0002 U	0.0001 U	23.2
SS-4	05/24/2010	6-8	0.0933 U	0.1441 U	**0.7222**	**4.132**	0.0569 U	98.7
SS-5	05/24/2010	6-8	0.0002 U	0.0003 U	0.0002 U	0.0002 U	0.0001 U	3.00 U
SS-6	05/24/2010	4-6	0.0002 U	0.0003 U	0.0002 U	0.0002 U	0.0001 U	3.00 U
SS-7	05/26/2010	4-6	0.0002 U	0.0003 U	0.0002 U	0.0002 U	0.0001 U	3.11 U
SS-8	05/26/2010	4-6	0.0002 U	0.0003 U	0.0002 U	0.0002 U	0.0001 U	4.16 I
SS-9	05/26/2010	4-6	0.0002 U	0.0003 U	0.0002 U	0.0002 U	0.0001 U	3.40 U
SB-4A	08/02/2011	6-8	**0.332**	0.0246 U	**3.54**	**16.5**	**0.199 I**	NS

NOTES:
< - Less than the method detection limit.
mg/kg - Milligrams/kilogram.
BTEX - Benzene, toluene, ethylbenzene, xylenes.
MTBE - Methyl tertiary butyl ether.
U - 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.
FDEP SCTLs - Florida Department of Environmental Protection Soil Cleanup Target Levels Table II, Chapter 62-777, FAC.
Bolded values exceed the Leachability SCTL and shaded values exceed the direct exposure SCTL.

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Table 3

SOIL ANALYTICAL SUMMARY
(SPLP BTEX/MTBE)

First Coast Energy #1801/Former Shell Service Station #100700
390 South Powerline Road
Deerfield Beach, Broward County, Florida
FDEP Facility ID No. 06/8731807

Soil Sample ID (Depth Interval)	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
	FDEP NADCs	**100**	**400**	**300**	**200**	**200**
	FDEP GCTLs	**1**	**40**	**30**	**20**	**20**
SS-10 (6-8')	09/14/2011	1.00 U	1.00 U	1.00 U	3.00 U	1.00 U

Notes:
SPLP = Synthetic Precipitation Leachate Procedure
NA = Not Analyzed
ug/L= Micrograms/liter
U= The compound was analyzed for but not detected.

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Table 4

GROUNDWATER ELEVATION SUMMARY

First Coast Energy #1801/Former Shell Service Station #100700
390 South Powerline Road
Deerfield Beach, Broward County, Florida
FDEP Facility ID No. 06/8731807

WELL NC.	OW-1			OW-2			OW-3			OW-4			OW-5			OW-6			OW-7		
DIAM. (in.)	4			4			4			4			4			4			4		
WELL DEPTH	12.30			11.89			9.47			14.96			10.12			11.84			11.06		
SCREEN INT.	2.30-12.30			1.89-11.89			1-9.47			4.96-14.96			1-9.5			1.84-11.84			1.06-11.06		
TOC ELEV	20.90			20.58			20.49			20.90			19.32			19.33			19.58		
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
8/4/05	15.19	5.71		15.35	5.23		15.12	5.37		15.18	5.72		13.92	5.40		13.91	5.42		14.00	5.58	
9/19/05																					
9/22/06	15.81	5.09		15.88	4.70		15.79	4.70		15.78	5.12	SN									
3/29/07	15.26	5.64		15.31	5.27		15.25	5.24		15.23	5.67										
7/17/07	16.08	4.82		16.19	4.39		16.14	4.35		16.06	4.84										
8/11/11	Destroyed			Destroyed			Destroyed			Destroyed			12.71	6.61							
8/19/11													12.94	6.38		12.92	6.41		12.99	6.59	

WELL NC.	OW-8			OW-9			OW-10			OW-11			OW-12			OW-13D			OW-14		
DIAM. (in.)	4			4			4			2			2			2			2		
WELL DEPTH	14.70			13.80			14.82			14.00			14.33			25.10			14.96		
SCREEN INT.	4.70-14.70			3.80-13.80			4.82-14.82			4-14			4.33-14.33			20.10-25.10			4.69-14.69		
TOC ELEV	20.26			20.60			20.12			20.99			19.98			20.82			20.58		
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
8/4/05	13.88	6.38		15.17	5.43		13.85	6.27		15.20	5.79		13.64	6.34		15.16	5.66		15.17	5.41	
9/19/05																					
9/22/06	15.80	5.78		15.79	4.81	SN	15.80	5.67		15.78	5.21		15.78	5.75							
3/29/07	13.93	6.33		15.23	5.37		13.91	6.21		15.24	5.75		13.72	6.26							
6/1/07							12.76	7.36													
7/17/07	14.78	5.48		16.06	4.54		14.68	5.44		16.05	4.94		14.47	5.51							
8/11/11	12.66	7.60		Destroyed			12.67	7.45		Abandoned			14.17	5.81		Destroyed			Abandoned		
8/19/11	12.97	7.29					12.95	7.17					13.01	6.97							

WELL NC.	OW-15			OW-16			OW-16D			OW-17			MW-17			MW-18			MW-19		
DIAM. (in.)	2			2			2			2			2			2			2		
WELL DEPTH	15			14.91			25.00			12.00			13.02			13.80			13.87		
SCREEN INT.	5-15			4.91-14.91			20-25			2.0-12.0			3.02-13.02			3.80-13.80			3.87-13.87		
TOC ELEV	18.47			18.76			21.61			18.50			20.52			20.71			20.60		
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
8/4/05							15.16	6.45		Installed			15.18	5.34		15.17	5.54		15.19	5.41	
9/19/05	15.60	4.12		15.37	4.58					7/13/2007											
9/22/06	14.77	4.95		15.76	4.19		15.77	5.84					15.79	4.73		15.77	4.94	SN	15.80	4.80	
3/29/07	15.26	4.46		15.24	4.71		15.24	6.37					15.24	5.28		15.24	5.47		15.25	5.35	
7/17/07	14.76	3.71		12.95	5.81					14.59	3.91		16.06	4.46		16.04	4.67		16.05	4.55	
3/24/08				14.79	3.97																
8/11/11	12.68	5.79		12.67	6.09		Abandoned			12.69	5.81		Destroyed			Destroyed			Destroyed		
8/19/11	12.92	5.55		12.95	5.81					12.92	5.58										
9/14/11	14.02	4.45		14.24	4.52																

WELL NC.	MW-17R			MW-18R			MW-19R			MW-20			MW-21D*			MW-22D*			MW-22D-R		
DIAM. (in.)	2			2			2			2			2			2			2		
WELL DEPTH	13.00			13.00			13.00			13.18			44.70			34.18			35.00		
SCREEN INT.	3.00-13.00			3.00-13.00			3.00-13.00			3.18-13.18			39.70-44.70			29.18-34.18			30.00-35.00		
TOC ELEV	19.07			19.67			19.20			19.72			20.04			20.55			19.31		
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
8/4/05		Installed			Installed			Installed												Installed	
9/19/05		8/2/2011			8/2/2011			8/2/2011		15.34	5.63		15.07	6.50		15.21	5.34			8/3/2011	
9/22/06													15.76	5.81		15.80	4.75				
3/29/07										15.25	5.72		15.25	6.32							
6/1/07													12.57	7.47							
7/17/07										14.80	4.92		14.47	5.57							
3/24/08										14.74	4.98		14.43	5.61							
8/2/11											8.02										
8/11/11	12.70	6.37		12.77	6.90		12.69	6.51		12.73	6.99		12.67	7.37		Destroyed			12.67	6.64	
8/19/11	12.96	6.11		12.93	6.74		12.94	6.26		12.99	6.73		12.93	7.11					12.93	6.38	
9/14/11																			14.21	5.10	

WELL NC.	MW-23			MW-24			MW-25			MW-26I*			MW-27I*			MW-28I*			MW-29D*		
DIAM. (in.)	2			2			2			2			2			2			2		
WELL DEPTH	12.00			12.00			12.00			45.00			45.00			45.00			60.00		
SCREEN INT.	2.0-12.0			2.0-12.0			2.0-12.0			40.0-45.0			40.0-45.0			40.0-45.0			55.0-60.0		
TOC ELEV	18.91			18.84			18.82			18.70			18.24			20.68			20.12		
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
8/4/05		Installed			Installed			Installed			Installed			Installed			Installed			Installed	
9/19/05		9/15/2006			9/15/2006			9/15/2006			3/26/2007			3/26/2007			3/26/2007			3/26/2007	
9/22/06	15.77	4.35		15.76	4.32		15.71	4.36													
3/29/07	15.26	4.86		15.26	4.82					13.99	4.71		13.98	4.26		15.28	5.40		13.94	6.18	
6/1/07																			12.75	7.37	
7/17/07	14.72	4.19		14.76	4.08					14.68	4.02		14.73	3.51		16.07	4.61		14.67	5.45	
3/24/08										14.74	3.96		14.72	3.52		16.02	4.66		14.62	5.50	
8/2/11		7.19														Abandoned					
8/11/11	12.68	6.23								12.65	6.05								12.68	7.44	
8/19/11	13.05	5.86		11.75	7.09		12.92	5.90		12.92	5.78		12.91	5.33					12.93	7.19	
9/14/11				14.22	4.62																

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Table 4

GROUNDWATER ELEVATION SUMMARY

First Coast Energy #1801/Former Shell Service Station #100700
390 South Powerline Road
Deerfield Beach, Broward County, Florida
FDEP Facility ID No. 06/8731807

WELL NC.	MW-30D*			MW-31D*			MW-32D*			MW-33D*			MW-34I*			MW-35I			MW-36D*		
DIAM. (in.)	2			2			2			2			2			2			2		
WELL DEPTH	60.00			60.00			60.00			75.00			45.00			45.00			60.00		
SCREEN INT.	55.0-60.0			55.0-60.0			55.0-60.0			70.0-75.0			40.0-45.0			40.0-45.0			55.0-60.0		
TOC ELEV	18.79			18.45			20.75			18.78			18.64			21.26			18.98		
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
8/4/05		Installed			Installed			Installed			Installed			Installed			Installed			Installed	
9/19/05		7/12/2007			7/13/2007			7/13/2007			7/12/2007			8/21/2008			8/20/2008			8/21/2008	
9/22/06																					
3/29/07																					
6/1/07																					
7/17/07	14.67	4.12		14.70	3.75		15.91	4.84		14.38	4.40										
3/24/08																					
8/25/08													14.96	3.68		16.05	5.21		15.02	3.96	
9/18/08													13.62	5.02							
8/2/11								Destroyed											11.79	7.19	
8/11/11				12.77	5.68								12.76	5.88							
8/19/11	12.90	5.89		12.91	5.54					12.61	6.17		12.95	5.69					12.94	6.04	

WELL NC.	MW-37I			MW-38I			MW-39			MW-40			MW-41		
DIAM. (in.)	2			2			2			2			2		
WELL DEPTH	45.00			45.00			13.00			13.00			13.00		
SCREEN INT.	40.0-45.0			40.0-45.0			3.0-13.0			3.0-13.0			3.0-13.0		
TOC ELEV	20.70			18.86			20.05			19.76			19.33		
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
8/4/05		Installed			Installed			Installed			Installed			Installed	
9/19/05		10/16/2008			10/16/2008			8/17/2011			8/17/2011			8/17/2011	
9/22/06															
3/29/07															
6/1/07															
7/17/07															
3/24/08															
8/25/08															
10/20/08	15.37	5.33		14.16	4.70										
8/11/11		Destroyed													
8/19/11				12.88	5.98		12.95	7.10		12.93	6.83		12.92	6.41	

Blank- No Data Available
SN - Light sheen visible in purge bucket (no measurable amount of product detected in well)
***** - Indicates double cased well

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Table 5

GROUNDWATER ANALYTICAL SUMMARY
(BTEX/MTBE/TBA)

First Coast Energy #1801/Former Shell Service Station #100700
390 South Powerline Road
Deerfield Beach, Broward County, Florida
FDEP Facility ID No. 06/8731807

Sample Identification	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	TBA
NADC		**100**	**400**	**300**	**200**	**200**	**14,000**
GCTL		**1**	**40**	**30**	**20**	**20**	**1,400**
OW-1	9/27/93	**2,500**	**7,600**	**179**	**3,250**	**7,600**	NS
(shallow zone)	2/3/94	**2,500**	**5,690**	**1,100**	**8,640**	**138**	NS
	10/14/94	**109**	**1,050**	**1,050**	**3,250**	U	NS
	4/15/98	**31**	2	U	6	**23**	NS
	9/17/99	**168**	3	11	**90**	**47**	NS
	7/10/00	**9**	6	2	14	13	NS
	7/20/01	U	U	U	U	U	U
	7/18/02	U	U	U	U	U	U
	7/17/03	U	U	U	U	U	U
	6/23/04	6	U	U	U	14	**2,500**
	8/4/05	**140**	**55**	1.2	**18.5**	**690**	**8,900**
	9/22/06	U	U	U	U	**97**	NS
	3/30/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	**60.14**	NS
	7/17/07	**184**	**41.19**	1.865	**38.94**	**20.03**	NS
OW-2	9/27/93	**9**	2	U	2	**151**	NS
(shallow zone)	2/3/94	**446**	**286**	3	**92**	**4,700**	NS
	10/14/94	**998**	**529**	U	**232**	**883**	NS
	4/15/98	**552**	**72**	U	**295**	**786**	NS
	9/17/99	**10,000**	**14,000**	**2,400**	**14,800**	**16,600**	NS
	7/10/00	**10,000**	**11,000**	**2,500**	**17,000**	**9,900**	NS
	7/20/01	**6,700**	U	**2,500**	**11,100**	**1,300**	NS
	7/18/02	**160**	**220**	**46**	**1,190**	10	NS
	7/17/03	**1,600**	**2,000**	**520**	**6,700**	**4,900**	NS
	6/23/04	**950**	U	U	**1,210**	**2,600**	U
	8/4/05	**1,300**	**48**	**93**	**164**	**110**	NS
	9/22/06	**878**	**121**	**205**	**171**	**53**	NS
	3/29/07	**737**	24.81	**73.14**	**35.6**	0.256 U	NS
	7/17/07	**502**	18.96	**68.43**	**50.587**	12.29	NS
OW-3	9/27/93	1	U	U	1	**71**	NS
(shallow zone)	2/3/94	U	U	U	U	**31**	NS
	10/14/94	U	U	U	U	6	NS
	4/15/98	**256**	U	U	**52**	**30**	NS
	9/17/99	**12,400**	**9,600**	**2,440**	**15,700**	**1,740**	NS
	7/10/00	**6,600**	**1,100**	U	**9,500**	**1,200**	NS
	7/20/01	**3,600**	U	**1,500**	**5,540**	U	NS
	7/18/02	**330**	31	U	**870**	**38**	NS
	7/17/03	**310**	**93**	29	**1,490**	U	NS
	6/23/04	**130**	U	U	**257**	U	600
	8/4/05	**100**	**49**	**130**	**190**	6	39
	9/22/06	**49**	6	1	**90**	8	NS
	3/29/07	**16.52**	10.45	24.28	**38.75**	0.256 U	NS
	7/17/07	**29.61**	6.219	0.1601 U	**47.894**	0.2562 U	NS
OW-4	9/27/93	U	U	U	U	U	NS
(shallow zone)	2/3/94	U	U	U	U	2	NS
	10/14/94	U	U	U	U	U	NS
	4/15/98	U	U	U	U	9	NS
	9/17/99	**1,450**	22	**117**	**766**	14	NS
	7/10/00	**10**	4	1	13	8	NS
	7/20/01	U	U	U	U	4	NS
	7/18/02	U	U	U	U	U	NS
	7/17/03	U	U	U	U	U	NS
	6/23/04	U	U	U	U	U	130
	8/4/05	U	U	U	U	3	22
	9/22/06	U	U	U	U	U	NS
	3/30/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
	7/17/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
OW-5	9/27/93	U	U	U	U	U	NS
(shallow zone)	2/3/94	U	U	U	U	U	NS
	10/14/94	1	2	U	2	U	NS
	4/15/98	U	U	U	U	U	NS
	10/20/99	U	U	U	U	U	U
	8/4/05	U	U	U	U	U	U
	8/11/11	0.270 U	0.330 U	0.320 U	0.870 U	0.320 U	NS

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Table 5

GROUNDWATER ANALYTICAL SUMMARY
(BTEX/MTBE/TBA)

First Coast Energy #1801/Former Shell Service Station #100700
390 South Powerline Road
Deerfield Beach, Broward County, Florida
FDEP Facility ID No. 06/8731807

Sample Identification	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	TBA
NADC		**100**	**400**	**300**	**200**	**200**	**14,000**
GCTL		**1**	**40**	**30**	**20**	**20**	**1,400**
OW-6	9/27/93	U	U	U	U	U	NS
(shallow zone)	2/3/94	U	U	U	U	1	NS
	10/14/94	U	U	U	U	U	NS
	4/15/98	U	U	U	U	U	NS
	7/10/00	U	U	U	U	U	NS
	7/20/01	U	U	U	U	U	NS
	7/18/02	U	U	U	U	U	NS
	7/17/03	U	U	U	U	U	NS
	6/23/04	U	U	U	U	U	U
	8/4/05	U	U	U	U	U	U
OW-7	9/27/93	U	U	U	U	U	NS
(shallow zone)	2/3/94	U	U	U	U	1	NS
	10/14/94	U	U	U	U	U	NS
	4/15/98	U	U	U	U	U	NS
	7/10/00	1	1	6	3	3	NS
	7/20/01	U	U	U	U	U	NS
	7/18/02	U	U	U	U	U	NS
	7/17/03	U	U	U	U	U	NS
	6/23/04	U	U	U	U	U	U
	8/4/05	U	U	U	U	U	U
OW-8	2/3/94	**3**	3	U	U	**50**	NS
(shallow zone)	10/14/94	U	U	U	U	U	NS
	4/15/98	U	U	U	U	U	NS
	10/20/99	U	U	U	U	U	NS
	8/4/05	**42**	18	U	U	**430**	1,300
	9/22/06	U	U	U	U	U	NS
	3/29/07	**10.36**	0.160 U	0.195 U	0.231 U	3.18	NS
	7/17/07	**28.68**	0.2105 U	0.1959 U	0.2310 U	0.2562 U	NS
	8/11/11	0.270 U	0.330 U	0.320 U	0.870 U	0.320 U	NS
OW-9	2/3/94	**104**	1	3	**20**	9	NS
(shallow zone)	10/14/94	**3**	U	1	1	3	NS
	4/15/98	U	U	U	U	U	NS
	8/4/05	U	U	U	U	**130**	50
	9/22/06	U	U	U	U	U	NS
	3/30/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
	7/17/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
OW-10	2/3/94	**323**	**87**	U	6	**469**	NS
(shallow zone)	10/14/94	1	U	1	4	**55**	NS
	4/15/98	**375**	U	U	**99**	**241**	NS
	10/20/99	**3,620**	**3,690**	**630**	**4,790**	U	NS
	8/4/05	**2,100**	**230**	**510**	**2,064**	**4,600**	**92,000**
	9/22/06	**735**	13.61	**48.68**	**149**	**362**	NS
	3/29/07	**920**	1.56	**258**	**336**	**178**	NS
	6/1/07	**4912**	**119**	**189**	**2340**	**273**	NS
	7/17/07	**19.14**	24.81	8.276	**876**	**105**	NS
	8/11/11	**9.35**	1.87	**78.5**	**182**	0.320 U	45.5
OW-11	2/3/94	**10**	5	U	1	**33**	NS
(shallow zone)	10/14/94	**54**	1	1	3	**110**	NS
	4/15/98	**183**	U	U	**61**	**145**	NS
	9/17/99	**1,610**	19	26	**41**	**159**	NS
	8/4/05	**7**	U	U	U	**29**	90
	9/22/06	U	U	U	U	U	NS
	3/29/07	0.210 U	0.160 U	0.196 U	0.231 U	0.256 U	NS
	7/17/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
OW-12	2/3/94	**550**	**308**	2	**49**	**2,020**	NS
(shallow zone)	10/14/94	**200**	**131**	6	**79**	**85**	NS
	4/15/98	**2,150**	8	U	**120**	**3,540**	NS
	9/17/99	**11,900**	**13,500**	**1,540**	**9,440**	**13,500**	NS
	8/4/05	**940**	**63**	**480**	**498**	**270**	**2,100**
	9/22/06	**1,086**	**85.56**	**867**	**1,710**	**147**	NS
	3/29/07	**514**	16.43	**128**	**23**	0.256 U	NS
	7/17/07	**1481**	**473**	**781**	**1719**	11.39	NS
	8/11/11	**33.3**	1.46	9.46	17.4	0.830 I	27.0

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Table 5

GROUNDWATER ANALYTICAL SUMMARY
(BTEX/MTBE/TBA)

First Coast Energy #1801/Former Shell Service Station #100700
390 South Powerline Road
Deerfield Beach, Broward County, Florida
FDEP Facility ID No. 06/8731807

Sample Identification	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	TBA
NADC		**100**	**400**	**300**	**200**	**200**	**14,000**
GCTL		**1**	**40**	**30**	**20**	**20**	**1,400**
OW-13D	6/17/94	U	U	U	U	U	NS
(25' zone)	10/14/94	U	U	U	1	2	NS
	4/15/98	U	U	U	U	U	NS
	10/20/99	U	U	U	U	U	NS
	8/4/05	U	U	U	U	U	U
OW-14	6/17/94	U	U	U	U	U	NS
(shallow zone)	10/14/94	U	U	U	U	U	NS
	4/15/98	U	U	U	U	U	NS
	10/20/99	U	U	U	U	U	NS
	8/4/05	U	U	U	U	U	U
OW-15	6/17/94	U	U	U	U	U	NS
(shallow zone)	10/14/94	U	U	U	U	U	NS
	4/15/98	U	U	U	U	U	NS
	9/17/99	U	U	U	U	U	NS
	9/19/05	U	U	U	U	U	U
	9/22/06	U	U	U	U	U	NS
	3/30/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
	7/17/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
	8/11/11	0.270 U	0.330 U	0.320 U	0.870 U	0.320 U	NS
OW-16	9/19/05	U	U	U	U	U	U
(shallow zone)	9/22/06	U	U	U	U	U	NS
	3/30/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
	7/17/07	**3.508**	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
	3/24/08	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
	8/11/11	0.270 U	0.330 U	0.320 U	0.870 U	0.320 U	NS
OW-16D	10/14/94	**17**	7	U	4	10	NS
(25' zone)	4/15/98	**35**	2	4	14	13	NS
	8/4/05	**110**	37	7.3	**21.9**	7.2	51
	9/22/06	U	U	U	U	U	NS
	3/29/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
OW-17	7/18/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
(shallow zone)	8/11/11	0.270 U	0.330 U	0.320 U	0.870 U	0.320 U	NS
MW-17	8/4/05	**4,400**	**310**	**470**	**1,020**	**23**	530
(shallow zone)	9/22/06	**286**	4.47	**57**	**117**	14.37	NS
	3/29/07	**961**	14.32	**78.55**	**289**	0.256 U	NS
	7/17/07	**1954**	24.08	**419**	**497**	**58.88**	NS
MW-17R	8/11/11	**15.7**	0.330 U	2.73	2.18 I	0.320 U	NS
(shallow zone)							
MW-18	8/4/05	**3,200**	**3,600**	**3,400**	**16,700**	**170**	350
(shallow zone)	9/22/06	**2,107**	**51.27**	**1,080**	**704**	**1,934**	NS
	3/29/07	**2899**	25.79	**443**	**260**	**840**	NS
	7/17/07	**1759**	**352**	**1588**	**8884**	**727**	NS
MW-18R	8/11/11	**47.2**	11.2	**705**	**965**	0.320 U	NS
(shallow zone)							
MW-19	8/4/05	U	U	U	U	U	17
(shallow zone)	9/22/06	U	U	U	U	U	NS
	3/29/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
	7/17/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
MW-19R	8/11/11	0.270 U	0.330 U	0.320 U	0.870 U	0.320 U	NS
(shallow zone)							

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Table 5

GROUNDWATER ANALYTICAL SUMMARY
(BTEX/MTBE/TBA)

First Coast Energy #1801/Former Shell Service Station #100700
390 South Powerline Road
Deerfield Beach, Broward County, Florida
FDEP Facility ID No. 06/8731807

Sample Identification	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	TBA
NADC		**100**	**400**	**300**	**200**	**200**	**14,000**
GCTL		**1**	**40**	**30**	**20**	**20**	**1,400**
MW-20	9/19/05	**22**	U	U	1.16	U	62
(shallow zone)	3/29/07	**5.81**	20.14	**176**	**143**	0.256 U	NS
	7/17/07	**5.366**	0.1601 U	1.118	19.797	0.2562 U	NS
	3/24/08	**23.24**	1.530	6.250	16.74	0.2562 U	NS
	8/11/11	0.270 U	0.330 U	0.320 U	1.84 I	0.320 U	NS
MW-21D*	9/19/05	U	U	U	U	**21**	**1,700**
(45' zone)	9/22/06	**433**	3.82	2.41	8.57	**31.13**	NS
	3/29/07	**98**	3.69	1.47	14.98	0.256 U	NS
	6/1/07	**93.51**	3.18	1.53	7.46	8.36	NS
	7/17/07	**109**	4.521	2.438	13.185	7.001	NS
	3/24/08	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	791
	8/11/11	0.270 U	0.330 U	0.320 U	0.870 U	0.320 U	2.00 U
MW-22D*	9/19/05	U	U	U	U	0.64	100
(35' zone)	9/22/06	U	U	U	U	U	NS
MW-22D-R	8/11/11	**2.36**	0.330 U	0.320 U	0.870 U	0.320 U	NS
(35' zone)	9/14/11	0.800 CF7 I	0.550 CF7 I	0.500 U	1.77 CF7 I	0.500 U	NS
MW-23	9/22/06	U	U	U	U	U	NS
(shallow zone)	3/30/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
	7/18/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
	8/11/11	0.270 U	0.330 U	0.320 U	0.870 U	0.320 U	NS
MW-24	9/22/06	U	U	U	U	U	NS
(shallow zone)	3/30/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
	7/17/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
	9/14/11	0.500 U	0.500 U	0.500 U	1.50 U	0.500 U	NS
MW-25	9/22/06	U	U	U	U	U	NS
(shallow zone)							
MW-26I*	3/30/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
(45' zone)	7/18/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
	3/24/08	**13.78**	<0.1601	0.1959 U	0.2310 U	**56.36**	**35,300**
	5/6/08	NS	NS	NS	NS	NS	**18,400**
	8/11/11	0.270 U	0.330 U	0.320 U	0.870 U	0.320 U	2.25 I
MW-27I*	3/30/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
(45' zone)	7/17/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
	3/24/08	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	1,130
MW-28I*	3/30/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
(45' zone)	7/17/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
	3/24/08	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	2.00 U
MW-34I*	8/25/08	**3418**	19.86	9.430	**63.24**	**64.47**	772
(45' zone)	9/18/08	**51.42**	3.4	3.22	14.7	19.65	NS
	8/11/11	0.270 U	0.330 U	0.320 U	0.870 U	0.320 U	NS
MW-35I	8/25/08	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	2.00 U
(45' zone)							
MW-29D*	3/30/07	**150**	2.040	0.1959 U	7.555	**38.33**	NS
(60' zone)	6/1/07	**120**	3.42	1.73	8.16	**29.16**	NS
	7/17/07	**225**	2.327	1.490	10.239	**48.62**	NS
	3/24/08	**6.420**	0.1601 U	0.1959 U	1.070	**52.15**	**21,000**
	8/11/11	0.270 U	0.330 U	0.320 U	0.870 U	0.320 U	71.9
MW-30D*	7/18/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	3.851	NS
(60' zone)	5/6/08	NS	NS	NS	NS	NS	653
MW-31D*	7/18/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	13.49	NS
(60' zone)	5/6/08	NS	NS	NS	NS	NS	1,200
	8/11/11	0.270 U	0.330 U	0.320 U	0.870 U	0.320 U	NS
MW-32D*	7/18/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
(60' zone)	5/6/08	NS	NS	NS	NS	NS	<2.00

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Table 5

GROUNDWATER ANALYTICAL SUMMARY
(BTEX/MTBE/TBA)

First Coast Energy #1801/Former Shell Service Station #100700
390 South Powerline Road
Deerfield Beach, Broward County, Florida
FDEP Facility ID No. 06/8731807

Sample Identification	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	TBA
NADC		**100**	**400**	**300**	**200**	**200**	**14,000**
GCTL		**1**	**40**	**30**	**20**	**20**	**1,400**
MW-36D*	8/25/08	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	2.00 U
(60' zone)							
MW-33D*	7/18/07	0.2105 U	0.1601 U	0.1959 U	0.2310 U	0.2562 U	NS
(75' zone)	5/6/08	NS	NS	NS	NS	NS	2.00 U
MW-37I	10/20/08	0.2105 U	0.1601 U	0.1959 U	0.2310 U	NS	NS
(45' zone)							
MW-38I	10/20/08	0.2105 U	0.1601 U	0.1959 U	0.2310 U	NS	NS
(45' zone)							
MW-39	8/18/11	**2.98**	5.88	**92.8**	**258**	0.320 U	2.00 U
(shallow zone)							
MW-40	8/18/11	**160**	5.98	**127**	**333**	2.48	240
(shallow zone)							
MW-41	8/18/11	0.270 U	0.330 U	0.320 U	0.870 U	0.320 U	2.00 U
(shallow zone)							

NOTES:
All concentrations in ppb (ug/l)
MTBE - methyl-tert-butyl ether
TBA - Tert-butyl alcohol
NADC - Natural Attenuation Default Concentrations - Table V, Chapter 62-777, FAC.
GCTL - Groundwater Cleanup Target Level - Table I, Chapter 62-777, FAC.
U - Compound was analyzed for but not detected at the MDL level.
I - The reported value is between the laboratory method detection limit and method reporting limit.
CF7 - Result may be elevated due to carry over from previously analyzed sample.
NS - Not Sampled
* - Indicates double cased well

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Table 6

GROUNDWATER ANALYTICAL SUMMARY
(PAH)

First Coast Energy #1801/Former Shell Service Station #100700
390 South Powerline Road
Deerfield Beach, Broward County, Florida
FDEP Facility ID No. 06/8731807

Sample Identification	Date Sampled	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzo(a)pyrene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	TRPH	EDB	Lead
NADC		**200**	**2100**	**21000**	**5**	**5**	**2100**	**50**	**20**	**480**	**0.5**	**2800**	**2800**	**5**	**280**	**280**	**140**	**2100**	**2100**	**50000**	**0.2**	
GCTL		**20**	**210**	**2100**	**0.05**	**0.05**	**210**	**0.5**	**0.2**	**4.8**	**0.005**	**280**	**280**	**0.05**	**28**	**28**	**14**	**210**	**210**	**5000**	**0.02**	**15**
OW-1	4-Aug-05	U	U	U	U	U	U	U	U	U	U	U	U	U	0.27	0.52	1.1	U	U	460	NS	NS
	22-Sep-06	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.113	0.292	U	U	NS	NS	NS
	30-Mar-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	<0.051	<0.054	<0.022	<0.033	<0.027	0.121	<0.020	NS
	17-Jul-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	1.67	0.297	0.690	<0.033	<0.027	NS	<0.020	NS
OW-2	4-Aug-05	U	U	U	U	U	U	U	U	U	U	U	U	U	66	110	520	U	U	3,500	0.89	2.82
	22-Sep-06	U	U	U	U	U	U	U	U	U	U	U	U	U	53.7	87	223	U	U	4410	NS	NS
	29-Mar-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	**30.8**	**42.1**	**39.7**	<0.033	<0.027	2.173	<0.020	NS
	17-Jul-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	**46.5**	**67.5**	**71.6**	<0.033	<0.027	NS	<0.020	NS
OW-3	4-Aug-05	0.28	U	U	U	0.46	U	U	U	U	U	U	U	U	51	95	520	U	0.53	5,400	NS	NS
	22-Sep-06	U	U	U	0.057	0.111	0.156	0.045	0.071	0.024	0.056	U	U	0.059	31.4	51.1	41.3	U	0.170	4080	NS	NS
	29-Mar-07	<0.033	<0.007	<0.003	0.019	**0.148**	0.123	0.052	0.096	0.159	**0.014**	0.112	<0.014	**0.125**	15.2	18.8	13.3	<0.033	0.096	3.42	<0.020	NS
	17-Jul-07	<0.033	<0.007	<0.003	**0.072**	**0.137**	0.106	0.047	0.084	0.148	<0.003	0.319	<0.014	**0.154**	2.44	<0.054	<0.022	<0.033	0.198	NS	<0.020	NS
OW-4	4-Aug-05	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	480	NS	NS
	30-Mar-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	<0.051	<0.054	<0.022	<0.033	<0.027	0.625	NS	NS
	17-Jul-07	<0.033	<0.007	<0.003	<0.003	0.052	0.026	0.018	0.030	0.063	<0.003	0.042	<0.014	0.047	<0.051	<0.054	<0.022	<0.033	0.059	NS	NS	NS
OW-5	4-Aug-05	0.27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	NS	NS	NS
OW-6	4-Aug-05	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	NS	NS	NS
OW-7	4-Aug-05	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	NS	NS	NS
OW-8	4-Aug-05	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	410	NS	NS
	29-Mar-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	<0.051	<0.054	<0.022	<0.033	<0.027	0.202	NS	NS
	17-Jul-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	<0.051	<0.054	<0.022	<0.033	<0.027	NS	NS	NS
	11-Aug-11	0.0267 U	0.0238 U	0.0295 U	0.0171 U	0.0248 U	0.0229 U	0.0381 U	0.0305 U	0.0333 U	0.0229 U	0.0324 U	0.0238 U	0.0267 U	0.0210 U	0.0324 U	0.0238 U	0.0600 U	0.0238 U	NS	NS	NS
OW-9	4-Aug-05	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	330	NS	NS
	30-Mar-07	<0.033	<0.007	<0.003	<0.003	0.033	0.041	0.014	0.024	0.028	**0.005**	0.018	<0.014	0.039	<0.051	<0.054	<0.022	<0.033	0.027	<0.001	NS	NS
	17-Jul-07	<0.033	<0.007	0.016	0.027	**0.050**	0.039	0.027	0.029	0.039	<0.003	0.060	<0.014	**0.054**	<0.051	<0.054	0.110	0.042	0.048	NS	NS	NS
OW-10	4-Aug-05	0.61	U	U	U	U	U	U	U	U	U	U	0.31	U	76	170	460	U	U	4,400	NS	NS
	22-Sep-06	U	U	U	U	U	U	U	U	U	U	U	U	U	41.8	65.9	23.5	U	U	2649	NS	NS
	29-Mar-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	**46.9**	**69.0**	**75.8**	<0.033	<0.027	3.243	NS	NS
	17-Jul-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	**59.6**	**156**	**285**	<0.033	<0.027	NS	NS	NS
	11-Aug-11	0.324	0.0857 I	0.0295 U	0.0171 U	0.0248 U	0.0229 U	0.0381 U	0.0305 U	0.0333 U	0.0229 U	0.0324 U	0.190	0.0267 U	**70.5**	**104**	**164**	0.276	0.0762 I	NS	NS	NS

Table 6

GROUNDWATER ANALYTICAL SUMMARY
(PAH)

First Coast Energy #1801/Former Shell Service Station #100700
390 South Powerline Road
Deerfield Beach, Broward County, Florida
FDEP Facility ID No. 06/8731807

Sample Identification	Date Sampled	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzo(a)pyrene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	TRPH	EDB	Lead
NADC		**200**	**2100**	**21000**	**5**	**5**	**2100**	**50**	**20**	**480**	**0.5**	**2800**	**2800**	**5**	**280**	**280**	**140**	**2100**	**2100**	**50000**	**0.2**	
GCTL		**20**	**210**	**2100**	**0.05**	**0.05**	**210**	**0.5**	**0.2**	**4.8**	**0.005**	**280**	**280**	**0.05**	**28**	**28**	**14**	**210**	**210**	**5000**	**0.02**	**15**
OW-11	4-Aug-05	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.25	U	U	330	NS	NS
	29-Mar-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	<0.051	<0.054	0.070	<0.033	<0.027	0.484	NS	NS
	17-Jul-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	<0.051	<0.054	0.083	<0.033	<0.027	NS	NS	NS
OW-12	4-Aug-05	0.6	U	0.34	U	U	U	U	U	U	U	U	U	0.39	U	95	230	670	U	U	3,900	NS	NS
	22-Sep-06	U	U	U	U	U	U	U	U	U	U	U	U	U	U	83.5	166	736	U	U	9290	NS	NS
	29-Mar-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	**55.6**	**157**	**58.2**	<0.033	<0.027	2.578	NS	NS
	17-Jul-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	**72.4**	**226**	**510**	<0.033	<0.027	NS	<0.020	NS
	11-Aug-11	0.311	0.0583 I	0.0301 U	0.0175 U	0.0252 U	0.0233 U	0.0388 U	0.0311 U	0.0340 U	0.0233 U	0.0330 U	0.194	0.0272 U	**41.7**	**95.4**	**47.8**	0.204	0.0243	NS	NS	NS
OW-13D	4-Aug-05	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.47	U	U	NS	NS	NS
OW-14	4-Aug-05	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	NS	NS	NS
OW-15	19-Sep-05	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	NS	NS	NS
	22-Sep-06	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.056	U	U	NS	NS	NS
	30-Mar-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	<0.051	<0.054	<0.022	<0.033	<0.027	<0.001	NS	NS
	17-Jul-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	<0.051	<0.054	0.110	<0.033	<0.027	NS	NS	NS
	14-Sep-11	0.0481 U	0.0481 U	0.0481 U	0.0481 U	0.0481 U	0.0481 U	0.0481 U	0.0481 U	0.0481 U	0.0481 U	0.0481 U	0.0481 U	0.0481 U	0.0481 U	0.0481 U	0.0481 U	0.0481 U	0.0481 U	0.0481 U	NS	NS	NS
OW-16	19-Sep-05	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	NS	NS	NS
	30-Mar-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	<0.051	<0.054	0.061	<0.033	<0.027	<0.001	<0.020	NS
	17-Jul-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	0.122	<0.054	0.024	<0.033	<0.027	NS	NS	NS
	14-Sep-11	0.0513 U	0.0513 U	0.0513 U	0.0513 U	0.0513 U	0.0513 U	0.0513 U	0.0513 U	0.0513 U	0.0513 U	0.0513 U	0.0513 U	0.0513 U	0.0513 U	0.0513 U	0.0513 U	0.0513 U	0.0513 U	0.0513 U	NS	NS	NS
OW-16D	4-Aug-05	0.16	U	U	U	U	U	U	U	U	U	U	U	U	20	36	9.1	U	U	1,200	NS	NS
	29-Mar-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	<0.051	<0.054	0.109	<0.033	<0.027	0.106	NS	NS
OW-17	18-Jul-07	<0.042	<0.009	<0.003	<0.003	<0.003	<0.009	<0.003	<0.002	0.018	<0.004	0.058	<0.018	<0.006	0.103	0.150	0.070	0.145	0.036	NS	NS	NS
MW-17	4-Aug-05	0.64	U	U	U	U	U	U	U	U	U	U	0.35	U	83	160	590	0.25	U	NS	NS	NS
	22-Sep-06	U	U	U	U	U	U	U	U	U	U	U	U	U	22.2	38.6	87.9	U	U	NS	NS	NS
	29-Mar-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	**64.3**	**240**	**705**	<0.033	<0.027	3.365	NS	NS
	17-Jul-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	**55.2**	**128**	**388**	<0.033	<0.027	NS	NS	NS
MW-17R	11-Aug-11	0.208	0.0248 U	0.0307 U	0.0178 U	0.0257 U	0.0238 U	0.0396 U	0.0317 U	0.0347 U	0.0238 U	0.0337 U	0.109	0.0277 U	19.8	**38.0**	**56.1**	0.891 I	0.0248 U	NS	NS	NS
MW-18	4-Aug-05	0.66	U	U	U	U	U	U	U	U	U	U	0.41	U	120	300	1,100	0.27	U	12,000	NS	NS
	22-Sep-06	U	U	U	U	U	U	U	U	U	U	U	U	U	113	200	339	U	U	7610	NS	NS
	29-Mar-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	**78.9**	**265**	**162**	<0.033	<0.027	6.15	NS	NS
	17-Jul-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	**97.0**	**431**	**644**	<0.033	<0.027	NS	NS	NS
MW-18R	11-Aug-11	0.560	0.100	0.0310 U	0.0180 U	0.0260 U	0.0240 U	0.0400 U	0.0320 U	0.0350 U	0.0240 U	0.0340 U	0.340	0.0280 U	**71.5**	**180**	**116**	0.220	0.0250 U	NS	NS	NS

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Table 6

GROUNDWATER ANALYTICAL SUMMARY
(PAH)

First Coast Energy #1801/Former Shell Service Station #100700
390 South Powerline Road
Deerfield Beach, Broward County, Florida
FDEP Facility ID No. 06/8731807

Sample Identification	Date Sampled	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzo(a)pyrene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	TRPH	EDB	Lead
NADC		**200**	**2100**	**21000**	**5**	**5**	**2100**	**50**	**20**	**480**	**0.5**	**2800**	**2800**	**5**	**280**	**280**	**140**	**2100**	**2100**	**50000**	**0.2**	
GCTL		**20**	**210**	**2100**	**0.05**	**0.05**	**210**	**0.5**	**0.2**	**4.8**	**0.005**	**280**	**280**	**0.05**	**28**	**28**	**14**	**210**	**210**	**5000**	**0.02**	**15**
MW-19	4-Aug-05	U	U	U	U	U	U	U	U	U	U	U	U	U	0.15	0.34	1.3	U	U	NS	NS	NS
	22-Sep-06	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.060	U	U	NS	NS	NS
	29-Mar-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	<0.051	0.085	0.077	<0.033	<0.027	<0.001	NS	NS
	17-Jul-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	0.053	0.109	0.376	<0.033	<0.027	NS	NS	NS
MW-19R	11-Aug-11	0.0280 U	0.0250 U	0.0310 U	0.0180 U	0.0260 U	0.0240 U	0.0400 U	0.0320 U	0.0350 U	0.0240 U	0.0340 U	0.0250 U	0.0280 U	0.140	0.330	0.240	0.0630 U	0.0250 U	NS	NS	NS
MW-20	19-Sep-05	U	U	U	U	U	U	U	U	U	U	U	U	U	24	32	110	U	U	NS	NS	NS
	29-Mar-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	**69.1**	**96.4**	4.42	<0.033	<0.027	3.05	NS	NS
	17-Jul-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	26.8	26.6	0.967	<0.033	<0.027	NS	NS	NS
	11-Aug-11	0.0795 I	0.0248 U	0.0307 U	0.0178 U	0.0257 U	0.0238 U	0.0396 U	0.0317 U	0.0347 U	0.0238 U	0.0337 U	0.0495 I	0.0277 U	4.90	5.19	0.208	0.0624 U	0.0248 U	NS	NS	NS
MW-21D*	19-Sep-05	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.25	U	U	NS	NS	NS
	22-Sep-06	U	U	U	U	U	U	U	U	U	U	U	U	U	39.4	72.1	73.9	U	U	NS	NS	NS
	29-Mar-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	**28.2**	**37.7**	**43.9**	<0.033	<0.027	1.208	NS	NS
	17-Jul-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	**45.6**	**45.8**	**0.682**	<0.033	<0.027	NS	NS	NS
	11-Aug-11	0.0267 U	0.0238 U	0.0295 U	0.0171 U	0.0248 U	0.0229 U	0.0381 U	0.0305 U	0.0333 U	0.0229 U	0.0324 U	0.0238 U	0.0267 U	0.0210 U	0.0324 U	0.0238 U	0.0600 U	0.0238 U	NS	NS	NS
MW-22D*	19-Sep-05	U	U	U	U	U	U	U	U	U	U	U	U	U	0.23	0.35	0.39	U	U	NS	NS	NS
	22-Sep-06	U	U	U	U	U	U	U	U	U	U	U	0.042	U	U	U	0.028	U	U	NS	NS	NS
MW-22D-R	11-Aug-11	0.0571 I	0.0238 U	0.0295 U	0.0171 U	0.0248 U	0.0229 U	0.0381 U	0.0305 U	0.0333 U	0.0229 U	0.0324 U	0.105	0.0267 U	0.295	0.0324 U	2.08	0.0600 U	0.0238 U	NS	NS	NS
MW-23	22-Sep-06	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.062	U	U	U	NS	NS
	30-Mar-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	<0.051	<0.054	<0.022	<0.033	<0.027	<0.001	NS	NS
	18-Jul-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	<0.051	<0.054	<0.022	<0.033	<0.027	NS	NS	NS
MW-24	22-Sep-06	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.038	U	U	U	NS	NS
	30-Mar-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	<0.051	<0.054	<0.022	<0.033	<0.027	<0.001	NS	NS
	17-Jul-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	<0.051	<0.054	0.059	<0.033	<0.027	NS	NS	NS
	14-Sep-11	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	NS	NS	NS
MW-25	22-Sep-06	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.075	0.122	U	U	U	NS	NS
MW-26I*	30-Mar-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	<0.051	<0.054	0.078	<0.033	<0.027	<0.001	NS	NS
	18-Jul-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	<0.051	<0.054	0.078	<0.033	<0.027	NS	NS	NS
MW-27I*	30-Mar-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	<0.051	<0.054	0.027	<0.033	<0.027	<0.001	NS	NS
	17-Jul-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	<0.051	<0.054	0.029	<0.033	<0.027	NS	NS	NS
MW-28I*	30-Mar-07	0.129	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	0.013	<0.014	<0.005	0.077	0.133	0.104	<0.033	<0.027	<0.001	NS	NS
	17-Jul-07	0.041	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	0.017	0.039	<0.005	<0.053	<0.056	<0.023	0.051	<0.028	NS	NS	NS

Table 6

GROUNDWATER ANALYTICAL SUMMARY
(PAH)

First Coast Energy #1801/Former Shell Service Station #100700
390 South Powerline Road
Deerfield Beach, Broward County, Florida
FDEP Facility ID No. 06/8731807

Sample Identification	Date Sampled	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzo(a)pyrene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	TRPH	EDB	Lead
NADC		**200**	**2100**	**21000**	**5**	**5**	**2100**	**50**	**20**	**480**	**0.5**	**2800**	**2800**	**5**	**280**	**280**	**140**	**2100**	**2100**	**50000**	**0.2**	
GCTL		**20**	**210**	**2100**	**0.05**	**0.05**	**210**	**0.5**	**0.2**	**4.8**	**0.005**	**280**	**280**	**0.05**	**28**	**28**	**14**	**210**	**210**	**5000**	**0.02**	**15**
MW-29D*	30-Mar-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	<0.014	<0.005	1.59	1.41	0.191	<0.033	<0.027	0.17	NS	NS
	17-Jul-07	<0.034	<0.008	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.004	<0.003	<0.014	<0.005	6.77	8.43	0.331	<0.034	<0.027	NS	NS	NS
MW-30D*	18-Jul-07	0.271	<0.007	<0.003	<0.003	<0.003	<0.009	<0.003	<0.002	<0.004	<0.003	<0.003	1.08	<0.005	<0.052	<0.055	<0.022	0.105	<0.027	NS	NS	NS
MW-31D*	18-Jul-07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	0.034	<0.014	<0.005	0.277	0.184	0.148	<0.033	<0.027	NS	NS	NS
MW-32D*	18-Jul-07	0.185	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	0.094	0.275	<0.005	2.53	2.72	1.03	0.520	0.078	NS	NS	NS
MW-33D*	18-Jul-07	0.858	<0.007	<0.003	<0.003	<0.002	<0.009	<0.003	<0.002	<0.004	<0.003	0.035	0.779	<0.005	<0.051	<0.054	<0.022	0.108	<0.027	NS	NS	NS

NOTES:
All concentrations in ppb (ug/l).
U - Below Laboratory Detection Limit
I - The reported value is between the laboratory method detection limit and method reporting limit.
NADC - Natural Attenuation Default Concentrations - Table V, Chapter 62-777, FAC.
GCTL - "Groundwater Cleanup Target Level - Table I, Chapter 62-777, FAC.
* - Indicates double cased well
NS - Not Sampled

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APPENDIX A

Regulatory Correspondence

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Environmental Protection and Growth Management Department
POLLUTION PREVENTION, REMEDIATION AND AIR QUALITY DIVISION
One North University Drive, Suite 203, Plantation, FL 33324
954-519-1260 • FAX 954-765-4804

JUN 20 2011

MICHAEL BERZINSKY
GROUNDWATER AND ENVIRONMENTAL SERVICES, INC.
6500 N W 12TH AVENUE, SUITE 109
FORT LAUDERDALE FL 33309

Re: **PREAPPROVAL WORK ORDER NO. 2011-06-W94607; FIRST COAST ENERGY #1801**
390 S POWERLINE RD, DEERFIELD BEACH, BROWARD COUNTY; FDEP FAC ID NO. 068731807
Score: 61

Dear Mr. Berzinsky:

Attached please find Preapproval Work Order No. 2011-06-W94607, associated Template Cost Worksheets, and cost proposal to complete the attached scope of work at the above referenced facility. Should the enclosed be acceptable to you, please sign the work order on the Contractor Representative lines and mail the original, signed work order, plus two copies of the work order and template spreadsheets (do NOT return the cover letter or cost proposal) to:

Contract Manager, Ms. Grace Rivera, FDEP Mail Station No. 4545
Bob Martinez Center, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400

In addition, please forward one copy of the Work Order (one page) to the undersigned at the letterhead address. Failure to return the Work Order and required copies to the FDEP within 45 days of the date of this cover letter (if applicable) may result in the cancellation of this Work Order.

Please note that GROUNDWATER AND ENVIRONMENTAL SERVICES, INC. may not initiate work under Work Order No. 2011-06-W94607 until the fully signed and executed original work order is returned to the Florida Department of Environmental Protection and a copy is received by the Broward County Pollution Prevention, Remediation and Air Quality Division.

Persons responsible for conducting field activities associated with the work order are required to notify the undersigned (preferably by e-mail) at least seven (7) calendar days prior to beginning work on site.

If contamination is discovered beyond property boundaries during the implementation of this work order, at a property where it had not been identified before, the County Program Site Manager must be notified as soon as possible after the analytical results are received.

Should you have any questions or comments regarding the enclosed, please feel free to contact me at (954) 519-0323.

Sincerely,
POLLUTION PREVENTION, REMEDIATION AND AIR QUALITY DIVISION

MATTHEW M. THEISEN, P.G.
Hydrogeologist II

enclosures

cc (w/o encl): FDEP File
ec (w/o encl): Annette Dokken, Shell Oil Products US, 7765 Lake Worth Road, 319, Lake Worth, FL 33467-2536; e-mail: annette.dokken@shell.com

Broward County Board of County Commissioners
Sue Gunzburger • Dale V.C. Holness • Kristin Jacobs • Chip LaMarca • Ilene Lieberman • Stacy Ritter • John E. Rodstrom, Jr. • Barbara Sharief • Lois Wexler
www.broward.org

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Petroleum Preapproval Program Work Order

3A

Work Order Number:	2011-06-W94607 ✓	**Cost Center #:**	37450404555	**Category:**	087888/FY 10-11/UP
FDEP Facility Id #:	06/8731807 ✓	**Score:**	61	**Contract #:**	PPA006
Site Name:	FIRST COAST ENERGY #1801			**Eligibility:**	SCR
Address (Street, City):	390 S POWERLINE RD, DEERFIELD BEACH			**County:**	Broward
Contractor Name:	GROUNDWATER AND ENVIRONMENTAL SERVICES, INC.			**CID #:**	01070
Contractor Address:	6500 N W 12TH AVENUE, SUITE 109, FORT LAUDERDALE, FL 33309			**FEID #:**	23-2335424
Contractor Representative:	Michael Berzinsky			**Phone #:**	954/750-7650 ext.3293
FDEP Site Manager:	Matthew M. Theisen			**Phone #:**	954/519-0323
Cleanup Phase:	Site Assessment				
Cleanup Activity:	SUPPLEMENTAL SITE ASSESSMENT				

Work Order Description:

In accordance with section 376.30711(1)(b), F.S., all work, including verbal change orders (VCOs), must be preapproved by the Department prior to the work being performed or the costs being incurred.

WO for SSA: FE#1: Supervise Earth Tech Drilling: Install 1 SB (SB-4a (6-8')) to a depth of 6-8' bls, at the cost proposal location. Collect 1 soil sample @ 6-8' depth interval (or vadose-zone interval with highest OVA) - analysis for BTEX/MTBE by 8260B. Install 4 - 2"ø MWs to depths of 13' bls (10'-screen (MW-17R, 18R, 19R)), and 35' bls (5'-screen (MW-22D-R)). Abandon 3 - 2"ø MWs (OW-11 (14'), OW-16D (25'), MW-28I (45')). Repair 4 MWs (OW-10,12, MW-21D,MW-29D). 3 replacement MWs to be installed (MW-39, 40, 41) as described, without the use of State funds. Collect pre-disposal soil sample for BTEX/MTBE by 8260B, TRPH by FL-PRO, and As,Cd,Cr,Pb by 6010B. FE#2: GW samples from 21 MWs (OW-5,8,10,12,15,16,17, MW-17R,18R,19R,20,21D,22D-R,23,26-I,29D,31D,34-I,39,40,41): analyses for BTEX/MTBE by 8260B (+Oxygenates for OW-10,12, MW-21D,26-I,29D,39,40,41) and PAHs by 8270C (OW-8,10,12, MW-17R,18R,19R,20,21D,22D-R only). All lab by TestAmerica. FE#3: Dispose up to 2 drums of soil IDW and up to 6 drums of PCW IDW (FCC). IDW drum pickup and properly manifest. Submit a SSAR including complete delineation of all impacts. Should additional work be required during any phase of this WO in order to achieve full contaminant delineation, please contact Broward (from the field for soil) to discuss a VCO. All work to be completed in accordance with GES cost proposal dated Feb. 9, 2011 (received Apr. 26, 2011 and incl. info rec'd through May 19, 2011) with modifications by Broward. Any and all alterations / modifications to the scope of work and tasks specifically described in this cost proposal / work order are to be documented to, and preapproved by, the FDEP site manager in writing.

Deliverable 1:	Boring Logs,Photo Documentation,Well Logs,Chain Of Custody,Field Notes	**Due Date 1:**	Aug. 31, 2011
Deliverable 2:	Chain Of Custody,Field Notes,Groundwater Sampling Logs	**Due Date 2:**	Aug. 31, 2011
Deliverable 3:	Field Notes,Disposal Manifest	**Due Date 3:**	Aug. 31, 2011
Deliverable 4:		**Due Date 4:**	
Deliverable 5:		**Due Date 5:**	
Deliverable 6:		**Due Date 6:**	
Final Deliverable:	SUPPLEMENTAL SITE ASSESSMENT REPORT	**Final Due Date:**	Aug. 31, 2011

Period of Service: **Contractor Representative Signature Date** **To** February 27, 2012

Amount: $24,155.00 ✓

This WORK ORDER is not in effect until signed by all parties. The FDEP will not pay any amount of this WORK ORDER until the original signed copy has been returned to the FDEP. The FDEP will not pay for any portion of the scope of work that has not been performed as of the date of Invoice.

Performance of this work order shall be governed by the terms of the preapproval work order performance agreement (PPA) listed above and the additional terms and conditions on the following pages.

		Date
FDEP Site Manager:		6/1/2011
FDEP Manager:		6/6/11
Cost Center Administrator:	George Hayden 6/6/11	6-14-11
Contractor Representative:		6/27/11
Contractor Representative: (second contractor signature is optional)		

FDEP Use Only: **Technical review:** Initials: OSD Date: 6/6/11

Fiscal Review: Initials: Date: 06-01-2011

Discharge Dates: 12-22-88 (EDI- no cap, no ded.), 01-24-94 (PLRIP- $400K cap as of 07-25-08, 10K ded. paid), 08-13-98 (PLRIP- $300K cap as of 07-25-08, 10K ded. paid) | no capital equip. | $pent to date = $465,221.25 (inclusive)

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Florida Department of Environmental Protection-Division of Waste Management-Bureau of Petroleum Storage Systems-Petroleum Cleanup

Verbal Authorization for Change in Scope of Work

068731807 FDEP

FDEP Work Order # ✓ 2011-06-W94607 FACID #: 068731807 Site Manager: Matthew M. Theisen

Contractor Name: ✓ Groundwater & Environmental Services, Inc. Contractor Phone #: (866) 565-7650 Ext.3293

Site Name and Address: ✓ First Coast Energy # 1801, 390 South Powerline Road, Deerfield Beach, FL (Broward County)

This is an authorization for the costs associated with the scope of work listed below. In order for these costs to be paid, these changes will need to be incorporated into the applicable change order/invoice for the referenced work order or task assignment (including copies of all applicable subcontractor & materials invoices).

Description of Change: ✓ 1 **Field Event**

Change of subcontractor from Earth Tech Drilling to Enviro-Drill, Inc. (License No. 11031). Scope of work remains the same, the Drilling Rate Schedule was revised in name change only, drilling costs $5,187.08 are approved for the first quarter of Work Order 2011-06-W94607 so are not included herein. ✓

Field Work	Section & Number	Template Activity Description	Cost per Item	# of Items	Authorized Costs
n/a	H-1	General / SA Report Preparation Costs[1]	n/a		

[1] *actual amount will be determined in template cost sheet during invoicing* ***subtotal:***

Subcontractor/Equip. Purchase	Authorized Costs	In-house Services/Equip. Rental	Authorized Costs
Laboratory [ ]	$0.00		
614 ⇒ Earth Tech Drilling to Enviro-Drill, Inc.			

subtotal (with 10% markup): ***subtotal (no markup):***

Field Work	Labor Category	"Bare" Labor Rates	Labor Hours	Authorized Costs	Misc. Expenses	Authorized Costs
					Equipment:	
					Materials:	
					Other:	
					[ ]	
	Equipment Kit Costs: $0.00 (See Price List)		***subtotal*:** (* includes all markups & equipment kit costs)		***subtotal:***	

Deliverable(s)	Previous Due Date(s)	New Due Date(s)
1st:		
2nd:		
3rd:		
4th:		
5th:		
Final:		

FDEP Cost Share 100% ✓

Total Authorized Costs 0 (m)

Period of Service extended to: N/A (m)

Requested by Contractor Representative: Michael Berzinsky (Print Name) (Signature) Date: 7/12/11

Authorized by FDEP Site Manager: Matthew Theisen (Print Name) (Signature) Date: 07-14-2011

Accepted Contractor Representative: Michael Berzinsky (Print Name) (Signature) Date: 7/14/11

Cost Center Administrator Approval >$10,000: _____ Reviewer Initials (optional): _____ Date: _____

Florida Department of Environmental Protection-Division of Waste Management-Bureau of Petroleum Storage Systems-Petroleum Cleanup

Verbal Authorization for Change in Scope of Work

VCO#3

FDEP Work Order # 2011-06-W94607 | FACID #: 068731807 FDEP | Site Manager: Matthew M. Theisen

Contractor Name: Groundwater & Environmental Services, Inc. | Contractor Phone #: (866) 565-7650 Ext.3293

Site Name and Address: First Coast Energy # 1801, 390 South Powerline Road, Deerfield Beach, FL, Broward County

This is an authorization for the costs associated with the scope of work listed below. In order for these costs to be paid, these changes will need to be incorporated into the applicable change order/invoice for the referenced work order or task assignment (including copies of all applicable subcontractor & materials invoices).

Description of Change: **4 Field Event**

Based on the recent soil and groundwater data, additional data is needed in order to provide a complete SSAR.
VCO3/Event 4: The groundwater analytical result for MW-22D-R was above the GCTL for benzene; therefore, it is proposed to resample the intermediate depth well to verify the result. The groundwater analytical results for OW-12 exceeded the GCTLs for benzene and PAHs; therefore, it is proposed to sample well MW-24 to provide western delineation of the shallow impacts detected in OW-12. + OW-15+16 for PAH
Soil sample SB-4A exceeded leachability SCTLs for BTEX/MTBE. Therefore, it is proposed to collect a 6-8' interval soil sample (SS-10) from the immediate vicinity of SB-4A and analyze it for SPLP-BTEX/MTBE. It is also proposed to collect 2 additional 6-8' interval soil samples (SS-11 & SS-12); the analyses for these samples will be contingent on the results of the SS-10 sample and will only be analyzed if the SS-10 (6-8) sample exceeds the SCTLs.

Benz. 22D-R
MW-24 + BTEX + PAH
OW-16 + 15 - PAH

Field Work	Section & Number	Template Activity Description	Cost per Item	# of Items	Authorized Costs
X	C-1	Mobilization (2-Persons)	$810.76	1	$810.76
X	C-4	SB for soil screening (<10')	$236.65	3	$709.95
X	C-19	Well Sampling	$241.75	~~2~~ 4	~~$483.50~~ $967.00
					$621.93
n/a	H-1	General / SA Report Preparation Costs[1]	n/a	1	~~$501.05~~
				subtotal:	~~$2,505.26~~ $3,109.64

[1] *actual amount will be determined in template cost sheet during invoicing*

Subcontractor/Equip. Purchase	Authorized Costs	In-house Services/Equip. Rental	Authorized Costs
Laboratory [ ]	~~$937.23~~ $1,195.21		
subtotal (with 10% markup):	~~$1,030.95~~ $1,314.91	**subtotal (no markup):**	

Field Work	Labor Category	"Bare" Labor Rates	Labor Hours	Authorized Costs	Misc. Expenses	Authorized Costs
					Equipment:	
					Materials:	
					Other:	
					[ ]	
	Equipment Kit Costs: (See Price List)	$0.00	**subtotal*:** (* includes all markups & equipment kit costs)		**subtotal:**	

Deliverable(s)	Previous Due Date(s)	New Due Date(s)
1st:		
2nd:		
3rd:		
4th: COC, field notes, SB log, GSLs	n/a	10-03-2011
5th:		
Final:		

FDEP Cost Share 100%

Total Authorized Costs ~~$3,536.22~~ $4,424.15

Period of Service extended to: n/a

Requested by Contractor Representative: Michael Berzinsky (Print Name) (Signature) Date: 9/8/11

Authorized by FDEP Site Manager: Matthew Theisen (Print Name) (Signature) Date: 09-09-2011

Accepted Contractor Representative: Michael Berzinsky (Print Name) (Signature) Date: 9/9/11

Cost Center Administrator Approval >$10,000: _____ Reviewer Initials (optional): _____ Date: 9-9-11

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APPENDIX B

Soil Boring Logs

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BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
MW-17R	N/A	06-8731807
Site Name:	**Borehole Start Date:** 8/2/11	**Borehole Start Time:** 10:29 ☒ AM ☐ PM
SHE-390	**End Date:** 8/2/11	**End Time:** 12:20 ☐ AM ☒ PM
Environmental Contractor:	**Geologist's Name:**	**Environmental Technician's Name:**
GES	Jessica Sasser	Jorge Romero
Drilling Company:	**Pavement Thickness (inches):**	**Borehole Diameter (inches):**	**Borehole Depth (feet):**
EDI	~1.5"	~12"	13'
Drilling Method(s):	**Apparent Borehole DTW (in feet from soil moisture content):**	**Measured Well DTW (in feet after water recharges in well):**	**OVA (list model and check type):**
HA/Auger	~7'		MiniRae 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☑ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0-2					0.0	1	0-1.5": Asphalt 1.5"-2': light brown medium grain sand with ~5% limestone fragments.		D	
							2				
HA	2-4					0.0	3	2-4': light brown medium grain sand.		D	
							4				
DC	4-6					115	5	4-6': light brown to brown medium grain sand.		M	
							6				
DC	6-8					1.2	7	6-8': light brown to brown medium grain sand.		M-W	
							8				
							9				
							10				
							11				
							13	13'			

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

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BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
MW-18R	N/A	06-8731807

Site Name:	Borehole Start Date: 8/2/11 End Date: 8/2/11	Borehole Start Time: 10:45 ☒ AM ☐ PM End Time: 14:35 ☐ AM ☒ PM
SHE-390		

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
GES	Jessica Sasser	Jorge Romero

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
EDI	~1.5"	~12"	13'

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
HA / Auger	~7'	7.79	MiniRae2000 ☐ FID ☒ PID

Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☑ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0-2					0.0	1	0-1.5": Asphalt 1.5"-2': ~~light~~ brown medium ~~to fine~~ grain sand.		D	
							2				
HA	2-4					50.1	3	2-4': brown medium grain sand.		D	
							4				
DC	4-6					196	5	4-6': dark brown medium grain sand		M	
							6				
DC	6-8					573	7	6-8': dark brown medium to fine grain sand.		W	
							8				
							9				
							10				
							11				
							12	↓ 13' BLS.			

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

DRAFT

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
MW-19R	N/A	06-8731807
Site Name:	**Borehole Start Date:** 8/2/11	**Borehole Start Time:** 10:15 ☒ AM ☐ PM
SHE-390	**End Date:** 8/2/11	**End Time:** 11:40 ☒ AM ☐ PM
Environmental Contractor:	**Geologist's Name:**	**Environmental Technician's Name:**
GES	Jessica Sasser	Jorge Romero
Drilling Company:	**Pavement Thickness (inches):**	**Borehole Diameter (inches):**	**Borehole Depth (feet):**
EDI	1.5"	~12"	13'
Drilling Method(s):	**Apparent Borehole DTW (in feet from soil moisture content):**	**Measured Well DTW (in feet after water recharges in well):**	**OVA (list model and check type):**
HA/Auger	~7'	7.35'	MiniRae 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☑ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☑ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0-2					0.0	1	0-1.5": Asphalt. 1.5"-2': brown medium grain sand		D	
							2				
HA	2-4					0.0	3	2'-4': light brown medium grain sand with ~10% limestone fragments.		D	
							4				
~~DC~~ HA	4-6					0.0	5	4-6': light brown medium to fine grain sand.		W	
							6				
DC	6-8					0.0	7	6-8': light brown medium to fine grain sand		W	
							8				
							9				
							10				
							11				
							13	↓ 13'			

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

DRAFT

BORING LOG

Boring/Well Number: MW-22D-R	Permit Number: N/A	FDEP Facility Identification Number: 06-8731807
Site Name: SHE-390	Borehole Start Date: 8/2/11 End Date: 8/3/11	Borehole Start Time: 10:29 ☒ AM ☐ PM End Time: 12:05 ☐ AM ☒ PM
Environmental Contractor: GES	Geologist's Name: Jessica Sasser	Environmental Technician's Name: Jorge Romero
Drilling Company: EDI	Pavement Thickness (inches): ~1.5"	Borehole Diameter (inches): ~12" / Borehole Depth (feet): 35'
Drilling Method(s): HA/Auger	Apparent Borehole DTW (in feet from soil moisture content): ~8'	Measured Well DTW (in feet after water recharges in well): 7.40
OVA (list model and check type): MiniRae 2000 ☐ FID ☑ PID		

Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☑ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0-2					0.0	1	0-1.5": Asphalt 1.5"-2': light brown medium to fine sand.		D	
HA	2-4					0.0	3	2-4': light brown medium to fine grain sand		D	
HA	4-6					0.0	5	4-6': light brown to brown medium to fine grainsand.		D	
HA	6-8					0.0	7	6-8': light brown medium to fine grain sand.		M-W	
							8				
							9				
							10				
							11				
							12	↓ 12'			

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

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BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
MW-22D-R	N/A	06-8731807

Site Name:	Borehole Start Date: 8/2/11	Borehole Start Time: 10:29 ☒ AM ☐ PM
SHE-390	End Date: 8/3/11	End Time: 12:05 ☐ AM ☒ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
GES	Jessica Sasser	Jorge Romero

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
EDI	~1.5"	~12"	35'

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
HAS Auger	~8'	7.40	MiniRae 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☑ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
							12'	light brown medium to fine grain sand		S	
							35'				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

DRAFT

BORING LOG

Page 1 of 1

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
MW-39	N/A	06/8731807

Site Name:	Borehole Start Date: 8/17/11	Borehole Start Time: 11:00 ☒ AM ☐ PM
FCE-1801	End Date:	End Time: 12:37 ~~☐ AM~~ ☒ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
GES	Jarvis Brown	

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
EnviroDrill	NA Landscape	10	13

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
HA & HSA	7	6.5	Mini RAE 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☒ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☑ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
							1	100% pale medium to fine grain sand. no odor		D	
HA	0-2					0	2	50% pale medium to fine grain sand. 50% Black medium to fine grain sand. ~~with roots~~. no odor.		D	
HA	2-4					1.4	4	100% brown medium to fine grain sand. (slight odor)		M	
DC	4-6					8.1	5			W	
							6				
							7	100% brown medium to fine grain sand. (slight odor)		S	
EC	6-8					9.1	8				
DC	8-13					NS	9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

DRAFT

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
MW-40	N/A	06/8731807

Site Name:	Borehole Start Date: 8/17/11	Borehole Start Time: 11:10 ☒ AM ☐ PM
FDE-1801	End Date: 8/17/11	End Time: 1:20 ☐ AM ☒ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
GES	Jarvis Brown	

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
EnviroDrill	2-inch Asphalt	10	13

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
HA/HSA	6	6.85	Mini RAE 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☒ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☑ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
							1	80% pale medium to fine grain sand. (no odor). 20% limestone gravel		D	
HA	0-2					0	2				
							3	75% pale medium to fine grain sand. (no odor) 25% limestone gravel		D	
HA	2-4					0	4	100% Brown/Gray medium to fine grain sand (odor).		M/W	
DC	4-6					88.3	6	100% Brown/Gray medium to fine grain sand (odor)		S	
DC	6-8					614	8				
DC	8-13					NS	9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

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BORING LOG

Boring/Well Number: MW-41	Permit Number: N/A	FDEP Facility Identification Number: 06/8731807
Site Name: FDE-1801	Borehole Start Date: 8/17/11 End Date: 8/17/2011	Borehole Start Time: 11:45 ☒ AM ☐ PM End Time: 2:35 ☐ AM ☒ PM
Environmental Contractor: GES	Geologist's Name: Jarvis Brown	Environmental Technician's Name:
Drilling Company: EnviroDrill	Pavement Thickness (inches): 2-inch Asphalt	Borehole Diameter (inches): 10
Borehole Depth (feet): 13		
Drilling Method(s): HA | HSA	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):
OVA (list model and check type): MiniRAE2000 ☐ FID ☑ PID		

Disposition of Drill Cuttings [check method(s)]: ☒ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☑ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
							1	100% pale / light brown medium to fine grain sand (no odor)		D	NS = not sampled
HA	0-2					0	2				
							3	100% brown medium to fine grain sand (no odor)		D	
HA	2-4					0	4				
							5	100% Gray / brown medium to fine grain sand (odor		M	
DC	4-6					0	6			W	
							7	100% pale / gray medium to fine grain sand (odor)		S	
DC	6-8					0	8				
DC	8-13					NS	9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

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BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-4A	N/A	06-8731807

Site Name:	Borehole Start Date: 8/2/11 End Date: 8/2/11	Borehole Start Time: 0935 ☒ AM ☐ PM End Time: 10:00 ☒ AM ☐ PM
SHE-390		

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
GES	Jessica Sasser	Jorge Romero

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
EDI	N/A	8"	8'

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
HA/SS	N/A	N/A	Mini Rae 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0-2					0.0	1	0-2': light brown medium to fine grain sand.		D	
							2				
HA	2-4					0.0	3	2-4': light brown to brown medium to fine grain sand.		D	
							4				
SS	4-6	8"				0.7	5	4-6': light brown medium to fine grain sand.		D	
							6				
SS	6-8	18"				1,600	7	6-8': brown medium to fine grain sand.		M	*SB-4A (6-8')
							8				
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

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Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

BORING LOG

Boring/Well Number: SS-10	Permit Number: N/A		FDEP Facility Identification Number: 068731807
Site Name: SHE-390	Borehole Start Date: 9-14-11 End Date: 9-14-11	Borehole Start Time: 9:22 ☒ AM ☐ PM End Time: 9:52 ☒ AM ☐ PM	
Environmental Contractor: GES, Inc.	Geologist's Name: Brittney Robinson		Environmental Technician's Name: —
Drilling Company: N/A	Pavement Thickness (inches): none	Borehole Diameter (inches): 6"	Borehole Depth (feet): 8'
Drilling Method(s): PH/HA	Apparent Borehole DTW (in feet from soil moisture content): 7'	Measured Well DTW (in feet after water recharges in well): N/A	OVA (list model and check type): Mini Rae 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0-2					6.0	1 2	0-2'- mulch overlay, medium to fine (m-f) grain sand, black and white, very loose. 100%.	GP	D	
HA	2/4					6.2	3 4	2-4'- m-f grain black and grey sand, very loose. 100%.	GP	D	
HA	4/6					7.7	5 6 7	4-6'- 50% pea rock and 50% light brown m-f grain sand, very loose.	GP	M	
HA	6/8					17.7	8 9 10 11 12	6-8'- m-f grain black sand, very loose, 100% moderate/Strong Odor.	GP	W	*6-8' Sample 9:52

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

DRAFT

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SS-11	N/A	068731807

Site Name:	Borehole Start Date: 9-14-11 End Date: 9-14-11	Borehole Start Time: 10:23 ☒ AM ☐ PM End Time: 12:55 ☐ AM ☒ PM
SHE-390		

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
GES, Inc.	Brittney Robinson	N/A

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
N/A	none	8"	7-8'

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
PH/HA	6.5'	N/A	Mini Rae 2000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0/2					0.0	1	0-2'- Grass overlay - medium to fine (m-f) grain black sand, 100%. very loose.	GP	D	
							2				
HA	2/4					5.9	3	2-4'- m-f grain dark brown and orange sand, very loose. 100%	GP	M	
							4				
							5				
HA	4/6					3.3	6	4-6'- 40% m-f grain grey sand with 60% limestone fragments, very hard.	GP	M	
							7				
HA	6/8					4.5	8	6-8'- 20% m-f grain white + grey sand with 80% limestone, very hard.	GP	W	* Lab (6-8') 12:50
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

DRAFT

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SS-12	N/A	06873180 7

Site Name:	Borehole Start Date: 9-14-11 End Date: 9-14-11	Borehole Start Time: 11:00 ☒ AM ☐ PM End Time: 13:30 ☐ AM ☒ PM
SHE-390		

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
GES, Inc.	Brittney Robinson	N/A

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
N/A	N/A	6"	8'

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well): N/A	OVA (list model and check type): Mini Rae 2000 ☐ FID ☑ PID
PH/HA			

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0/2					3.0	1	0-2'- Grass Overlay, medium to fine (m-f) grain black sand, very loose. 100%.			
							2				
HA	2/4					2.9	3	2-4'- m-f grain black sand, very loose. 100%.			
							4				
							5	4-5'- 10% m-f grain black sand with 90% limestone very hard. Refusal - hand auger won't collect sample.			
							6				
							7				
							8				
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

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APPENDIX C

Soil Laboratory Analytical Report and Chain of Custody Documentation

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Road
Nashville, TN 37204
Tel: 800-765-0980

TestAmerica Job ID: NUH0541
Client Project/Site: SAP 100700
Client Project Description: 390 S Powerline Rd, Deerfield Beach

For:
GES (Fort Lauderdale) / SHELL (13652)
6500 N.W. 12th Avenue, Suite 109
Ft. Lauderdale, FL 33309

Attn: Michael Berzinsky

Authorized for release by:
08/16/2011 02:37:25 PM

Leah R. Klingensmith
Senior Project Management
leah.klingensmith@testamericainc.com

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LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

Results relate only to the items tested and the sample(s) as received by the laboratory. 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.

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DRAFT

Sample Summary

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH0541

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NUH0541-01	SB-4A	Soil	08/02/11 09:59	08/04/11 08:30
NUH0541-02	PD-1	Soil	08/02/11 16:15	08/04/11 08:30

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652) TestAmerica Job ID: NUH0541
Project/Site: SAP 100700

Job ID: NUH0541

Laboratory: TestAmerica Nashville

Narrative

The BTEX/MTBE results for SB-4A(NUH0541-01) are reported in wet weight. A jar was not submitted for % Dry Solids.

NELAC Certification

NELAC certifications are not held for the following analytes included in this report:

Method	Matrix	Analyte
SW-846	Soil	% Dry Solids

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652) TestAmerica Job ID: NUH0541
Project/Site: SAP 100700

Qualifiers

GC Volatiles

Qualifier	Qualifier Description
U	The compound was analyzed for but not detected
I	The reported value is between the laboratory method detection limit and method reporting limit.
V	The analyte was detected in both the sample and the associated method blank.
J4	The sample matrix interfered with the ability to make an accurate determination.

GC Semivolatiles

Qualifier	Qualifier Description
U	The compound was analyzed for but not detected
J4	The sample matrix interfered with the ability to make an accurate determination.

Metals

Qualifier	Qualifier Description
U	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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
TestAmerica Job ID: NUH0541
Project/Site: SAP 100700

Client Sample ID: SB-4A
Lab Sample ID: NUH0541-01
Date Collected: 08/02/11 09:59
Matrix: Soil
Date Received: 08/04/11 08:30

Method: SW846 8021B - Volatile Organic Compounds by EPA Method 8021B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.332		0.0491	0.0196	mg/kg wet		08/02/11 09:59	08/11/11 15:53	50.0
Ethylbenzene	3.54		0.0491	0.0246	mg/kg wet		08/02/11 09:59	08/11/11 15:53	50.0
Methyl tert-Butyl Ether	0.199	I	0.491	0.0344	mg/kg wet		08/02/11 09:59	08/11/11 15:53	50.0
Toluene	<0.0246	U	0.0491	0.0246	mg/kg wet		08/02/11 09:59	08/11/11 15:53	50.0
Xylenes, total	16.5		0.147	0.0933	mg/kg wet		08/02/11 09:59	08/11/11 15:53	50.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*111*		*60 - 150*	*08/02/11 09:59*	*08/11/11 15:53*	*50.0*

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH0541

Client Sample ID: PD-1
Date Collected: 08/02/11 16:15
Date Received: 08/04/11 08:30

Lab Sample ID: NUH0541-02
Matrix: Soil
Percent Solids: 84.5

Method: SW846 8021B - Volatile Organic Compounds by EPA Method 8021B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.655**		0.0486	0.0195	mg/kg dry	☼	08/02/11 16:15	08/11/11 16:10	50.0
Ethylbenzene	**7.47**		0.0486	0.0243	mg/kg dry	☼	08/02/11 16:15	08/11/11 16:10	50.0
Methyl tert-Butyl Ether	<0.0340	U	0.486	0.0340	mg/kg dry	☼	08/02/11 16:15	08/11/11 16:10	50.0
Toluene	<0.0243	U	0.0486	0.0243	mg/kg dry	☼	08/02/11 16:15	08/11/11 16:10	50.0
Xylenes, total	**23.8**		0.146	0.0924	mg/kg dry	☼	08/02/11 16:15	08/11/11 16:10	50.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*90*		*60 - 150*	*08/02/11 16:15*	*08/11/11 16:10*	*50.0*

Method: TPH-FL PRO - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TRPH	**66.6**		11.8	6.70	mg/kg dry	☼	08/11/11 08:55	08/11/11 20:13	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*99*		*62 - 109*	*08/11/11 08:55*	*08/11/11 20:13*	*1.00*
C-35	*95*		*60 - 118*	*08/11/11 08:55*	*08/11/11 20:13*	*1.00*

Method: SW846 6010C - Total Metals by EPA 6010C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.826	U	1.18	0.826	mg/kg dry	☼	08/12/11 07:14	08/12/11 18:01	1.00
Cadmium	<0.236	U	1.18	0.236	mg/kg dry	☼	08/12/11 07:14	08/12/11 18:01	1.00
Chromium	**2.72**		1.18	0.236	mg/kg dry	☼	08/12/11 07:14	08/12/11 18:01	1.00
Lead	<0.708	U	1.18	0.708	mg/kg dry	☼	08/12/11 07:14	08/12/11 18:01	1.00

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**84.5**		0.500	0.500	%		08/15/11 13:37	08/16/11 12:30	1.00

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Method: SW846 8021B - Volatile Organic Compounds by EPA Method 8021B

Lab Sample ID: 11H2450-BLK1
Matrix: Soil
Analysis Batch: U014319

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11H2450_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0200	U	0.0500	0.0200	mg/kg wet		08/10/11 14:15	08/11/11 13:35	50.0
Ethylbenzene	<0.0250	U	0.0500	0.0250	mg/kg wet		08/10/11 14:15	08/11/11 13:35	50.0
Methyl tert-Butyl Ether	<0.0350	U	0.500	0.0350	mg/kg wet		08/10/11 14:15	08/11/11 13:35	50.0
Toluene	0.0276	I	0.0500	0.0250	mg/kg wet		08/10/11 14:15	08/11/11 13:35	50.0
Xylenes, total	<0.0950	U	0.150	0.0950	mg/kg wet		08/10/11 14:15	08/11/11 13:35	50.0

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*85*		*60 - 150*	*08/10/11 14:15*	*08/11/11 13:35*	*50.0*

Lab Sample ID: 11H2450-BLK2
Matrix: Soil
Analysis Batch: U014319

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11H2450_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0200	U	0.0500	0.0200	mg/kg wet		08/10/11 14:15	08/11/11 13:53	50.0
Ethylbenzene	<0.0250	U	0.0500	0.0250	mg/kg wet		08/10/11 14:15	08/11/11 13:53	50.0
Methyl tert-Butyl Ether	<0.0350	U	0.500	0.0350	mg/kg wet		08/10/11 14:15	08/11/11 13:53	50.0
Toluene	<0.0250	U	0.0500	0.0250	mg/kg wet		08/10/11 14:15	08/11/11 13:53	50.0
Xylenes, total	<0.0950	U	0.150	0.0950	mg/kg wet		08/10/11 14:15	08/11/11 13:53	50.0

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*87*		*60 - 150*	*08/10/11 14:15*	*08/11/11 13:53*	*50.0*

Lab Sample ID: 11H2450-BLK3
Matrix: Soil
Analysis Batch: U014319

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11H2450_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000400	U	0.00100	0.000400	mg/kg wet		08/10/11 14:15	08/11/11 14:10	1.00
Ethylbenzene	<0.000500	U	0.00100	0.000500	mg/kg wet		08/10/11 14:15	08/11/11 14:10	1.00
Methyl tert-Butyl Ether	<0.000700	U	0.0100	0.000700	mg/kg wet		08/10/11 14:15	08/11/11 14:10	1.00
Toluene	<0.000500	U	0.00100	0.000500	mg/kg wet		08/10/11 14:15	08/11/11 14:10	1.00
Xylenes, total	<0.00190	U	0.00300	0.00190	mg/kg wet		08/10/11 14:15	08/11/11 14:10	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*90*		*60 - 150*	*08/10/11 14:15*	*08/11/11 14:10*	*1.00*

Lab Sample ID: 11H2450-BLK4
Matrix: Soil
Analysis Batch: U014319

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11H2450_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000400	U	0.00100	0.000400	mg/kg wet		08/10/11 14:15	08/11/11 14:27	1.00
Ethylbenzene	<0.000500	U	0.00100	0.000500	mg/kg wet		08/10/11 14:15	08/11/11 14:27	1.00
Methyl tert-Butyl Ether	<0.000700	U	0.0100	0.000700	mg/kg wet		08/10/11 14:15	08/11/11 14:27	1.00
Toluene	<0.000500	U	0.00100	0.000500	mg/kg wet		08/10/11 14:15	08/11/11 14:27	1.00
Xylenes, total	<0.00190	U	0.00300	0.00190	mg/kg wet		08/10/11 14:15	08/11/11 14:27	1.00

DRAFT

Method: SW846 8021B - Volatile Organic Compounds by EPA Method 8021B (Continued)

Lab Sample ID: 11H2450-BLK4
Matrix: Soil
Analysis Batch: U014319

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11H2450_P

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*87*		*60 - 150*	*08/10/11 14:15*	*08/11/11 14:27*	*1.00*

Lab Sample ID: 11H2450-BLK5
Matrix: Soil
Analysis Batch: U014319

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11H2450_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0200	U	0.0500	0.0200	mg/kg wet		08/10/11 14:15	08/11/11 21:35	50.0
Ethylbenzene	<0.0250	U	0.0500	0.0250	mg/kg wet		08/10/11 14:15	08/11/11 21:35	50.0
Methyl tert-Butyl Ether	<0.0350	U	0.500	0.0350	mg/kg wet		08/10/11 14:15	08/11/11 21:35	50.0
Toluene	<0.0250	U	0.0500	0.0250	mg/kg wet		08/10/11 14:15	08/11/11 21:35	50.0
Xylenes, total	<0.0950	U	0.150	0.0950	mg/kg wet		08/10/11 14:15	08/11/11 21:35	50.0

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*88*		*60 - 150*	*08/10/11 14:15*	*08/11/11 21:35*	*50.0*

Lab Sample ID: 11H2450-BLK6
Matrix: Soil
Analysis Batch: U014319

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11H2450_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0200	U	0.0500	0.0200	mg/kg wet		08/10/11 14:15	08/11/11 21:52	50.0
Ethylbenzene	<0.0250	U	0.0500	0.0250	mg/kg wet		08/10/11 14:15	08/11/11 21:52	50.0
Methyl tert-Butyl Ether	<0.0350	U	0.500	0.0350	mg/kg wet		08/10/11 14:15	08/11/11 21:52	50.0
Toluene	<0.0250	U	0.0500	0.0250	mg/kg wet		08/10/11 14:15	08/11/11 21:52	50.0
Xylenes, total	<0.0950	U	0.150	0.0950	mg/kg wet		08/10/11 14:15	08/11/11 21:52	50.0

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*70*		*60 - 150*	*08/10/11 14:15*	*08/11/11 21:52*	*50.0*

Lab Sample ID: 11H2450-BLK7
Matrix: Soil
Analysis Batch: U014319

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11H2450_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000400	U	0.00100	0.000400	mg/kg wet		08/10/11 14:15	08/11/11 22:09	1.00
Ethylbenzene	<0.000500	U	0.00100	0.000500	mg/kg wet		08/10/11 14:15	08/11/11 22:09	1.00
Methyl tert-Butyl Ether	<0.000700	U	0.0100	0.000700	mg/kg wet		08/10/11 14:15	08/11/11 22:09	1.00
Toluene	<0.000500	U	0.00100	0.000500	mg/kg wet		08/10/11 14:15	08/11/11 22:09	1.00
Xylenes, total	<0.00190	U	0.00300	0.00190	mg/kg wet		08/10/11 14:15	08/11/11 22:09	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*80*		*60 - 150*	*08/10/11 14:15*	*08/11/11 22:09*	*1.00*

DRAFT

Method: SW846 8021B - Volatile Organic Compounds by EPA Method 8021B (Continued)

Lab Sample ID: 11H2450-BLK8
Matrix: Soil
Analysis Batch: U014319

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11H2450_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000400	U	0.00100	0.000400	mg/kg wet		08/10/11 14:15	08/11/11 22:26	1.00
Ethylbenzene	<0.000500	U	0.00100	0.000500	mg/kg wet		08/10/11 14:15	08/11/11 22:26	1.00
Methyl tert-Butyl Ether	<0.000700	U	0.0100	0.000700	mg/kg wet		08/10/11 14:15	08/11/11 22:26	1.00
Toluene	<0.000500	U	0.00100	0.000500	mg/kg wet		08/10/11 14:15	08/11/11 22:26	1.00
Xylenes, total	<0.00190	U	0.00300	0.00190	mg/kg wet		08/10/11 14:15	08/11/11 22:26	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*63*		*60 - 150*	*08/10/11 14:15*	*08/11/11 22:26*	*1.00*

Lab Sample ID: 11H2450-BLK9
Matrix: Soil
Analysis Batch: U014319

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11H2450_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000400	U	0.00100	0.000400	mg/kg wet		08/10/11 14:15	08/12/11 11:27	1.00
Ethylbenzene	<0.000500	U	0.00100	0.000500	mg/kg wet		08/10/11 14:15	08/12/11 11:27	1.00
Methyl tert-Butyl Ether	<0.000700	U	0.0100	0.000700	mg/kg wet		08/10/11 14:15	08/12/11 11:27	1.00
Toluene	<0.000500	U	0.00100	0.000500	mg/kg wet		08/10/11 14:15	08/12/11 11:27	1.00
Xylenes, total	<0.00190	U	0.00300	0.00190	mg/kg wet		08/10/11 14:15	08/12/11 11:27	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*78*		*60 - 150*	*08/10/11 14:15*	*08/12/11 11:27*	*1.00*

Lab Sample ID: 11H2450-BLKA
Matrix: Soil
Analysis Batch: U014319

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11H2450_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000400	U	0.00100	0.000400	mg/kg wet		08/10/11 14:15	08/12/11 11:44	1.00
Ethylbenzene	<0.000500	U	0.00100	0.000500	mg/kg wet		08/10/11 14:15	08/12/11 11:44	1.00
Methyl tert-Butyl Ether	<0.000700	U	0.0100	0.000700	mg/kg wet		08/10/11 14:15	08/12/11 11:44	1.00
Toluene	<0.000500	U	0.00100	0.000500	mg/kg wet		08/10/11 14:15	08/12/11 11:44	1.00
Xylenes, total	<0.00190	U	0.00300	0.00190	mg/kg wet		08/10/11 14:15	08/12/11 11:44	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*89*		*60 - 150*	*08/10/11 14:15*	*08/12/11 11:44*	*1.00*

Lab Sample ID: 11H2450-BS3
Matrix: Soil
Analysis Batch: U014319

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11H2450_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Benzene	0.100	0.108		mg/kg wet		108	70 - 120
Ethylbenzene	0.100	0.112		mg/kg wet		112	72 - 123
Methyl tert-Butyl Ether	0.100	0.120		mg/kg wet		120	60 - 140
Toluene	0.100	0.112	V	mg/kg wet		112	70 - 120
Xylenes, total	0.300	0.332		mg/kg wet		111	71 - 122

DRAFT

Method: SW846 8021B - Volatile Organic Compounds by EPA Method 8021B (Continued)

Lab Sample ID: 11H2450-BS3
Matrix: Soil
Analysis Batch: U014319

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11H2450_P

Surrogate	LCS % Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	*100*		*60 - 150*

Lab Sample ID: 11H2450-BS4
Matrix: Soil
Analysis Batch: U014319

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11H2450_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Benzene	0.100	0.104		mg/kg wet		104	70 - 120
Ethylbenzene	0.100	0.108		mg/kg wet		108	72 - 123
Methyl tert-Butyl Ether	0.100	0.0986		mg/kg wet		99	60 - 140
Toluene	0.100	0.108	V	mg/kg wet		108	70 - 120
Xylenes, total	0.300	0.318		mg/kg wet		106	71 - 122

Surrogate	LCS % Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	*95*		*60 - 150*

Lab Sample ID: 11H2450-BSD3
Matrix: Soil
Analysis Batch: U014319

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 11H2450_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.107		mg/kg wet		107	70 - 120	1	40
Ethylbenzene	0.100	0.111		mg/kg wet		111	72 - 123	1	50
Methyl tert-Butyl Ether	0.100	0.117		mg/kg wet		117	60 - 140	2	40
Toluene	0.100	0.110	V	mg/kg wet		110	70 - 120	2	40
Xylenes, total	0.300	0.328		mg/kg wet		109	71 - 122	1	50

Surrogate	LCS Dup % Recovery	LCS Dup Qualifier	Limits
a,a,a-Trifluorotoluene	*107*		*60 - 150*

Lab Sample ID: 11H2450-BSD4
Matrix: Soil
Analysis Batch: U014319

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 11H2450_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.105		mg/kg wet		105	70 - 120	1	40
Ethylbenzene	0.100	0.109		mg/kg wet		109	72 - 123	0.7	50
Methyl tert-Butyl Ether	0.100	0.101		mg/kg wet		101	60 - 140	2	40
Toluene	0.100	0.109	V	mg/kg wet		109	70 - 120	0.5	40
Xylenes, total	0.300	0.320		mg/kg wet		107	71 - 122	0.6	50

Surrogate	LCS Dup % Recovery	LCS Dup Qualifier	Limits
a,a,a-Trifluorotoluene	*100*		*60 - 150*

DRAFT

Method: SW846 8021B - Volatile Organic Compounds by EPA Method 8021B (Continued)

Lab Sample ID: 11H2450-MS1
Matrix: Soil
Analysis Batch: U014319

Client Sample ID: SB-4A
Prep Type: Total
Prep Batch: 11H2450_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Benzene	0.332		2.46	2.28		mg/kg wet		79	37 - 135
Ethylbenzene	3.54		2.46	4.00	J4	mg/kg wet		19	25 - 141
Methyl tert-Butyl Ether	0.199	I	2.46	2.42		mg/kg wet		90	42 - 140
Toluene	<0.0246	U	2.46	2.21	V	mg/kg wet		90	27 - 141
Xylenes, total	16.5		7.37	15.5	J4	mg/kg wet		-14	22 - 135

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*95*		*60 - 150*

Lab Sample ID: 11H2450-MS2
Matrix: Soil
Analysis Batch: U014319

Client Sample ID: Matrix Spike
Prep Type: Total
Prep Batch: 11H2450_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Benzene	<0.0236		2.95	2.62		mg/kg dry	☼	89	37 - 135
Ethylbenzene	<0.0295		2.95	2.66		mg/kg dry	☼	90	25 - 141
Methyl tert-Butyl Ether	<0.0413		2.95	2.58		mg/kg dry	☼	87	42 - 140
Toluene	<0.0295		2.95	2.95	V	mg/kg dry	☼	100	27 - 141
Xylenes, total	0.419		8.84	6.78		mg/kg dry	☼	72	22 - 135

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*86*		*60 - 150*

Lab Sample ID: 11H2450-MSD1
Matrix: Soil
Analysis Batch: U014319

Client Sample ID: SB-4A
Prep Type: Total
Prep Batch: 11H2450_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Benzene	0.332		2.46	2.33		mg/kg wet		81	37 - 135	2	40
Ethylbenzene	3.54		2.46	4.24		mg/kg wet		28	25 - 141	6	50
Methyl tert-Butyl Ether	0.199	I	2.46	2.65		mg/kg wet		100	42 - 140	9	40
Toluene	<0.0246	U	2.46	2.24	V	mg/kg wet		91	27 - 141	1	40
Xylenes, total	16.5		7.37	16.6	J4	mg/kg wet		2	22 - 135	7	50

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*98*		*60 - 150*

Lab Sample ID: 11H2450-MSD2
Matrix: Soil
Analysis Batch: U014319

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 11H2450_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Benzene	<0.0236		2.95	2.77		mg/kg dry	☼	94	37 - 135	6	40
Ethylbenzene	<0.0295		2.95	2.78		mg/kg dry	☼	94	25 - 141	4	50
Methyl tert-Butyl Ether	<0.0413		2.95	3.05		mg/kg dry	☼	103	42 - 140	17	40
Toluene	<0.0295		2.95	3.11	V	mg/kg dry	☼	106	27 - 141	5	40
Xylenes, total	0.419		8.84	6.94		mg/kg dry	☼	74	22 - 135	2	50

DRAFT

Method: SW846 8021B - Volatile Organic Compounds by EPA Method 8021B (Continued)

Lab Sample ID: 11H2450-MSD2
Matrix: Soil
Analysis Batch: U014319

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 11H2450_P

Surrogate	Matrix Spike Dup % Recovery	Matrix Spike Dup Qualifier	Limits
a,a,a-Trifluorotoluene	*91*		*60 - 150*

Lab Sample ID: 11H2450-DUP1
Matrix: Soil
Analysis Batch: U014319

Client Sample ID: Duplicate
Prep Type: Total
Prep Batch: 11H2450_P

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
Benzene	<0.0200			<0.0200	U	mg/kg dry	☼				40
Ethylbenzene	<0.0251			<0.0251	U	mg/kg dry	☼				50
Methyl tert-Butyl Ether	<0.0351			<0.0351	U	mg/kg dry	☼				40
Toluene	<0.0251			0.0256	I V	mg/kg dry	☼				40
Xylenes, total	<0.0952			<0.0952	U	mg/kg dry	☼				50

Surrogate	Duplicate % Recovery	Duplicate Qualifier	Limits
a,a,a-Trifluorotoluene	*85*		*60 - 150*

Method: TPH-FL PRO - Extractable Petroleum Hydrocarbons

Lab Sample ID: 11H1865-BLK1
Matrix: Soil
Analysis Batch: U014343

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11H1865_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TRPH	<5.70	U	10.0	5.70	mg/kg wet		08/11/11 08:55	08/11/11 16:48	1.00

Surrogate	Blank % Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*94*		*62 - 109*	*08/11/11 08:55*	*08/11/11 16:48*	*1.00*
C-35	*94*		*60 - 118*	*08/11/11 08:55*	*08/11/11 16:48*	*1.00*

Lab Sample ID: 11H1865-BS1
Matrix: Soil
Analysis Batch: U014343

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11H1865_P

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
TRPH			34.0	28.9		mg/kg wet		85	63 - 153		

Surrogate	LCS % Recovery	LCS Qualifier	Limits
o-Terphenyl	*95*		*62 - 109*
C-35	*60*		*60 - 118*

Lab Sample ID: 11H1865-MS1
Matrix: Soil
Analysis Batch: U014343

Client Sample ID: PD-1
Prep Type: Total
Prep Batch: 11H1865_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits		
TRPH	66.6		39.6	131		mg/kg dry	☼	162	62 - 166		

DRAFT

Method: TPH-FL PRO - Extractable Petroleum Hydrocarbons (Continued)

Lab Sample ID: 11H1865-MS1
Matrix: Soil
Analysis Batch: U014343

Client Sample ID: PD-1
Prep Type: Total
Prep Batch: 11H1865_P

Surrogate	Matrix Spike % Recovery	Matrix Spike Qualifier	Limits
o-Terphenyl	98		62 - 109
C-35	90		60 - 118

Lab Sample ID: 11H1865-MSD1
Matrix: Soil
Analysis Batch: U014343

Client Sample ID: PD-1
Prep Type: Total
Prep Batch: 11H1865_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
TRPH	66.6		38.8	94.1	J4	mg/kg dry	☼	71	62 - 166	33	25

Surrogate	Matrix Spike Dup % Recovery	Matrix Spike Dup Qualifier	Limits
o-Terphenyl	96		62 - 109
C-35	79		60 - 118

Method: SW846 6010C - Total Metals by EPA 6010C

Lab Sample ID: 11H1702-BLK1
Matrix: Soil
Analysis Batch: 11H1702

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11H1702_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.668	U	0.954	0.668	mg/kg wet		08/12/11 07:14	08/12/11 17:41	1.00
Cadmium	<0.191	U	0.954	0.191	mg/kg wet		08/12/11 07:14	08/12/11 17:41	1.00
Chromium	<0.191	U	0.954	0.191	mg/kg wet		08/12/11 07:14	08/12/11 17:41	1.00
Lead	<0.573	U	0.954	0.573	mg/kg wet		08/12/11 07:14	08/12/11 17:41	1.00

Lab Sample ID: 11H1702-BS1
Matrix: Soil
Analysis Batch: 11H1702

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11H1702_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	19.8	19.1		mg/kg wet		96	80 - 120
Cadmium	19.8	19.8		mg/kg wet		100	80 - 120
Chromium	79.4	79.8		mg/kg wet		100	80 - 120
Lead	19.8	20.5		mg/kg wet		104	80 - 120

Lab Sample ID: 11H1702-BSD1
Matrix: Soil
Analysis Batch: 11H1702

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 11H1702_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Arsenic	20.1	18.9		mg/kg wet		94	80 - 120	1	20
Cadmium	20.1	19.7		mg/kg wet		98	80 - 120	0.4	20
Chromium	80.3	79.8		mg/kg wet		99	80 - 120	0.05	20
Lead	20.1	20.4		mg/kg wet		102	80 - 120	0.7	20

DRAFT

Method: SW846 6010C - Total Metals by EPA 6010C (Continued)

Lab Sample ID: 11H1702-MS1
Matrix: Soil
Analysis Batch: 11H1702

Client Sample ID: PD-1
Prep Type: Total
Prep Batch: 11H1702_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	<0.826	U	23.4	22.4		mg/kg dry	☼	96	75 - 125
Cadmium	<0.236	U	23.4	22.6		mg/kg dry	☼	97	75 - 125
Chromium	2.72		93.7	95.0		mg/kg dry	☼	99	75 - 125
Lead	<0.708	U	23.4	24.9		mg/kg dry	☼	106	75 - 125

Lab Sample ID: 11H1702-MSD1
Matrix: Soil
Analysis Batch: 11H1702

Client Sample ID: PD-1
Prep Type: Total
Prep Batch: 11H1702_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Arsenic	<0.826	U	22.7	22.5		mg/kg dry	☼	99	75 - 125	0.3	20
Cadmium	<0.236	U	22.7	22.0		mg/kg dry	☼	97	75 - 125	3	20
Chromium	2.72		91.0	91.9		mg/kg dry	☼	98	75 - 125	3	20
Lead	<0.708	U	22.7	24.0		mg/kg dry	☼	105	75 - 125	4	20

Method: SW-846 - General Chemistry Parameters

Lab Sample ID: 11H3510-DUP1
Matrix: Soil
Analysis Batch: 11H3510

Client Sample ID: Duplicate
Prep Type: Total
Prep Batch: 11H3510_P

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
% Dry Solids	82.1		84.4		%		3	20

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652) TestAmerica Job ID: NUH0541
Project/Site: SAP 100700

GC Volatiles

Analysis Batch: U014319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H2450-BS3	Lab Control Sample	Total	Soil	SW846 8021B	11H2450_P
11H2450-BS4	Lab Control Sample	Total	Soil	SW846 8021B	11H2450_P
11H2450-BSD3	Lab Control Sample Dup	Total	Soil	SW846 8021B	11H2450_P
11H2450-BSD4	Lab Control Sample Dup	Total	Soil	SW846 8021B	11H2450_P
11H2450-BLK1	Method Blank	Total	Soil	SW846 8021B	11H2450_P
11H2450-BLK2	Method Blank	Total	Soil	SW846 8021B	11H2450_P
11H2450-BLK3	Method Blank	Total	Soil	SW846 8021B	11H2450_P
11H2450-BLK4	Method Blank	Total	Soil	SW846 8021B	11H2450_P
NUH0541-01	SB-4A	Total	Soil	SW846 8021B	11H2450_P
NUH0541-02	PD-1	Total	Soil	SW846 8021B	11H2450_P
11H2450-BLK5	Method Blank	Total	Soil	SW846 8021B	11H2450_P
11H2450-BLK6	Method Blank	Total	Soil	SW846 8021B	11H2450_P
11H2450-BLK7	Method Blank	Total	Soil	SW846 8021B	11H2450_P
11H2450-BLK8	Method Blank	Total	Soil	SW846 8021B	11H2450_P
11H2450-MS1	SB-4A	Total	Soil	SW846 8021B	11H2450_P
11H2450-MSD1	SB-4A	Total	Soil	SW846 8021B	11H2450_P
11H2450-MS2	Matrix Spike	Total	Soil	SW846 8021B	11H2450_P
11H2450-MSD2	Matrix Spike Duplicate	Total	Soil	SW846 8021B	11H2450_P
11H2450-DUP1	Duplicate	Total	Soil	SW846 8021B	11H2450_P
11H2450-BLK9	Method Blank	Total	Soil	SW846 8021B	11H2450_P
11H2450-BLKA	Method Blank	Total	Soil	SW846 8021B	11H2450_P

Prep Batch: 11H2450_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H2450-BS3	Lab Control Sample	Total	Soil	EPA 5035A (GC)	
11H2450-BS4	Lab Control Sample	Total	Soil	EPA 5035A (GC)	
11H2450-BSD3	Lab Control Sample Dup	Total	Soil	EPA 5035A (GC)	
11H2450-BSD4	Lab Control Sample Dup	Total	Soil	EPA 5035A (GC)	
11H2450-BLK1	Method Blank	Total	Soil	EPA 5035A (GC)	
11H2450-BLK2	Method Blank	Total	Soil	EPA 5035A (GC)	
11H2450-BLK3	Method Blank	Total	Soil	EPA 5035A (GC)	
11H2450-BLK4	Method Blank	Total	Soil	EPA 5035A (GC)	
NUH0541-01	SB-4A	Total	Soil	EPA 5035A (GC)	
NUH0541-02	PD-1	Total	Soil	EPA 5035A (GC)	
11H2450-BLK5	Method Blank	Total	Soil	EPA 5035A (GC)	
11H2450-BLK6	Method Blank	Total	Soil	EPA 5035A (GC)	
11H2450-BLK7	Method Blank	Total	Soil	EPA 5035A (GC)	
11H2450-BLK8	Method Blank	Total	Soil	EPA 5035A (GC)	
11H2450-MS1	SB-4A	Total	Soil	EPA 5035A (GC)	
11H2450-MSD1	SB-4A	Total	Soil	EPA 5035A (GC)	

DRAFT

GC Volatiles (Continued)

Prep Batch: 11H2450_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H2450-MS2	Matrix Spike	Total	Soil	EPA 5035A (GC)	
11H2450-MSD2	Matrix Spike Duplicate	Total	Soil	EPA 5035A (GC)	
11H2450-DUP1	Duplicate	Total	Soil	EPA 5035A (GC)	
11H2450-BLK9	Method Blank	Total	Soil	EPA 5035A (GC)	
11H2450-BLKA	Method Blank	Total	Soil	EPA 5035A (GC)	

GC Semivolatiles

Analysis Batch: U014343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H1865-BLK1	Method Blank	Total	Soil	TPH-FL PRO	11H1865_P
11H1865-BS1	Lab Control Sample	Total	Soil	TPH-FL PRO	11H1865_P
11H1865-MS1	PD-1	Total	Soil	TPH-FL PRO	11H1865_P
11H1865-MSD1	PD-1	Total	Soil	TPH-FL PRO	11H1865_P
NUH0541-02	PD-1	Total	Soil	TPH-FL PRO	11H1865_P

Prep Batch: 11H1865_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H1865-BLK1	Method Blank	Total	Soil	EPA 3550B	
11H1865-BS1	Lab Control Sample	Total	Soil	EPA 3550B	
11H1865-MS1	PD-1	Total	Soil	EPA 3550B	
11H1865-MSD1	PD-1	Total	Soil	EPA 3550B	
NUH0541-02	PD-1	Total	Soil	EPA 3550B	

Metals

Analysis Batch: 11H1702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H1702-BLK1	Method Blank	Total	Soil	SW846 6010C	11H1702_P
11H1702-BS1	Lab Control Sample	Total	Soil	SW846 6010C	11H1702_P
11H1702-BSD1	Lab Control Sample Dup	Total	Soil	SW846 6010C	11H1702_P
NUH0541-02	PD-1	Total	Soil	SW846 6010C	11H1702_P
11H1702-MS1	PD-1	Total	Soil	SW846 6010C	11H1702_P
11H1702-MSD1	PD-1	Total	Soil	SW846 6010C	11H1702_P

Prep Batch: 11H1702_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H1702-BLK1	Method Blank	Total	Soil	EPA 3051A/6010	
11H1702-BS1	Lab Control Sample	Total	Soil	EPA 3051A/6010	
11H1702-BSD1	Lab Control Sample Dup	Total	Soil	EPA 3051A/6010	
NUH0541-02	PD-1	Total	Soil	EPA 3051A/6010	
11H1702-MS1	PD-1	Total	Soil	EPA 3051A/6010	
11H1702-MSD1	PD-1	Total	Soil	EPA 3051A/6010	

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652) TestAmerica Job ID: NUH0541
Project/Site: SAP 100700

Extractions

Analysis Batch: 11H3510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H3510-DUP1	Duplicate	Total	Soil	SW-846	11H3510_P
NUH0541-02	PD-1	Total	Soil	SW-846	11H3510_P

Prep Batch: 11H3510_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H3510-DUP1	Duplicate	Total	Soil	% Solids	
NUH0541-02	PD-1	Total	Soil	% Solids	

DRAFT

Lab Chronicle

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH0541

Client Sample ID: SB-4A

Lab Sample ID: NUH0541-01

Date Collected: 08/02/11 09:59

Matrix: Soil

Date Received: 08/04/11 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035A (GC)		0.982	11H2450_P	08/02/11 09:59	AAN	TAL NSH
Total	Analysis	SW846 8021B		50.0	U014319	08/11/11 15:53	SSN	TAL NSH

Client Sample ID: PD-1

Lab Sample ID: NUH0541-02

Date Collected: 08/02/11 16:15

Matrix: Soil

Date Received: 08/04/11 08:30

Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035A (GC)		0.822	11H2450_P	08/02/11 16:15	AAN	TAL NSH
Total	Analysis	SW846 8021B		50.0	U014319	08/11/11 16:10	SSN	TAL NSH
Total	Prep	EPA 3550B		0.994	11H1865_P	08/11/11 08:55	JJR	TAL NSH
Total	Analysis	TPH-FL PRO		1.00	U014343	08/11/11 20:13	KKH	TAL NSH
Total	Prep	EPA 3051A/6010		0.998	11H1702_P	08/12/11 07:14	RSO	TAL NSH
Total	Analysis	SW846 6010C		1.00	11H1702	08/12/11 18:01	LTB	TAL NSH
Total	Prep	% Solids		1.00	11H3510_P	08/15/11 13:37	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11H3510	08/16/11 12:30	JJR	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

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Method Summary

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH0541

Method	Method Description	Protocol	Laboratory
SW-846	General Chemistry Parameters		TAL NSH
SW846 8021B	Volatile Organic Compounds by EPA Method 8021B		TAL NSH
TPH-FL PRO	Extractable Petroleum Hydrocarbons		TAL NSH
SW846 6010C	Total Metals by EPA 6010C		TAL NSH

Protocol References:

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

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Certification Summary

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH0541

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	A2LA	WY UST		453.07
TestAmerica Nashville	AIHA	IHLAP		100790
TestAmerica Nashville	Alabama	State Program	4	41150
TestAmerica Nashville	Alaska	Alaska UST	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas	State Program	6	88-0737
TestAmerica Nashville	CALA	CALA		3744
TestAmerica Nashville	California	NELAC	9	1168CA
TestAmerica Nashville	Colorado	State Program	8	N/A
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAC	4	E87358
TestAmerica Nashville	Illinois	NELAC	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAC	7	E-10229
TestAmerica Nashville	Kentucky	Kentucky UST	4	19
TestAmerica Nashville	Kentucky	State Program	4	90038
TestAmerica Nashville	Louisiana	NELAC	6	LA100011
TestAmerica Nashville	Louisiana	NELAC	6	30613
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAC	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana	MT DEQ UST	8	NA
TestAmerica Nashville	Nevada	State Program	9	TN00032
TestAmerica Nashville	New Hampshire	NELAC	1	2963
TestAmerica Nashville	New Jersey	NELAC	2	TN965
TestAmerica Nashville	New York	NELAC	2	11342
TestAmerica Nashville	North Carolina	North Carolina DENR	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio	OVAP	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAC	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAC	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAC	6	T104704077-09-TX
TestAmerica Nashville	USDA	USDA		S-48469
TestAmerica Nashville	Utah	NELAC	8	TAN
TestAmerica Nashville	Virginia	NELAC Secondary AB	3	460152
TestAmerica Nashville	Virginia	State Program	3	00323
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia	West Virginia DEP	3	219
TestAmerica Nashville	Wisconsin	State Program	5	998020430

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

DRAFT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEI

NUH0541

Cooler Received/Opened On 8/4/2011 @ 0830

1. Tracking # 6844 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 97460373

2. Temperature of rep. sample or temp blank when opened: 3.7 *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) _____

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

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

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) _____

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) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO / # _____

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville Division
2960 Foster Creighton
Nashville, TN 37204
Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

Shell Oil

Consultant Name: Groundwater & Environmental Services, Inc.
Address: 6500 NW 12th Ave, Suite 109
City/State/Zip: Ft. Lauderdale, FL 33309
Shell Project Mgr: Annette Dokken
Consultant Project Mgr: Mike Berzinsky

Consultant Telephone Number: (866) 565-7650 Fax No.: (866) 334-9883
Sampler Name: (Print) JESSICA JEFFERY JORGE KERRERO
Sampler Signature:

TA Account #: 1318 PO#:
Invoice To: GES, Inc.
Report To: Mike Berzinsky
Project Name: SHE-390
SAP #: 100700
Incident #:
Site Address 390 S Powerline Rd
City, State, Zip Deerfield Beach, FL
Regulatory District (CA)

Sample ID or Field ID	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Methanol	DI Water	HCl (Blue Label)	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass(Yellow Label)	HNO_3 (Red Label)	None (Black Label)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify)	Analyze For: BTEX/MTBE 8021	TRPH by FL-PRO	As, Cd, Cr, Pb by 6010B	RUSH TAT (Pre-Schedule) *	TAT request (in Bus. Days)	Fax Results (yes or no)	Due Date of Report
SB-4A	8/2/11	9:57	3	X			1	2											X		X						
PD-1	8/2/11	10:15	5		X		1	2						2							X	X	X				

NUH0541
08/18/11 23:59

Ref:
Dep:
Date: 23Jun11
Wgt: 10.0 LBS
DV:
0.00
Svcs: PRIORITY OVERNIGHT Master 4810 3533 5892
TRCK: 4810 3533 6844

SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00

Comments/Special Instructions:
FDEP RATES: BTEX | MTBE $ 67.23/5 sample; TRPH $ 98.58/5 sample; (FL-PRO)
(SW8260B) As, Cd, Cr, Pb (6010A) $ 70.70/1 sample

Relinquished by:	Date	Time	Received by:	Date	Time
	8/2/11	17:00		8/3/11	1100
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
				8/4/11	8:30

Temperature Upon Receipt: 3.7
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
QC Deliverables (please circle one)
Level 2 Level 3 Level 4 Other

* It will be the responsibility of ExxonMobil or its consultant to notify the TestAmerica Project Manager by phone or fax that a rush sample will be submitted.
TA Project Manager: Date:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Road
Nashville, TN 37204
Tel: 800-765-0980

TestAmerica Job ID: NUI1823
Client Project/Site: SAP 100700
Client Project Description: 390 S Powerline Rd, Deerfield Beach

For:
GES (Fort Lauderdale) / SHELL (13652)
6500 N.W. 12th Avenue, Suite 109
Ft. Lauderdale, FL 33309

Attn: Michael Berzinsky

Authorized for release by:
09/22/2011 02:37:15 PM

Leah R. Klingensmith
Senior Project Management
leah.klingensmith@testamericainc.com

DRAFT

LINKS

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Have a Question? Ask The Expert

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Results relate only to the items tested and the sample(s) as received by the laboratory. 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.

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DRAFT

Sample Summary

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUI1823

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NUI1823-01	SS-10 (6-8')	Soil	09/14/11 09:52	09/15/11 15:01

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUI1823

Job ID: NUI1823

Laboratory: TestAmerica Nashville

NELAC Certification

NELAC certifications are not held for the following analytes included in this report:

Method	Matrix	Analyte
SW846 1312/8260	Soil	Benzene
		Ethylbenzene
		Methyl tert-Butyl Ether
		Toluene
		Xylenes, total

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUI1823

Qualifiers

GCMS Volatiles

Qualifier	Qualifier Description
MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike.

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUI1823

Client Sample ID: SS-10 (6-8')
Date Collected: 09/14/11 09:52
Date Received: 09/15/11 15:01

Lab Sample ID: NUI1823-01
Matrix: Soil
Percent Solids: 82.4

Method: SW846 1312/8260 - SPLP Volatile Organics Method SW846 1312/8260B - SPLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100		0.00100		mg/L		09/19/11 08:52	09/19/11 12:46	1.00
Ethylbenzene	<0.00100		0.00100		mg/L		09/19/11 08:52	09/19/11 12:46	1.00
Toluene	<0.00100		0.00100		mg/L		09/19/11 08:52	09/19/11 12:46	1.00
Xylenes, total	<0.00300		0.00300		mg/L		09/19/11 08:52	09/19/11 12:46	1.00
Methyl tert-Butyl Ether	<0.00100		0.00100		mg/L		09/19/11 08:52	09/19/11 12:46	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*100*		*70 - 130*	*09/19/11 08:52*	*09/19/11 12:46*	*1.00*
Dibromofluoromethane	*99*		*70 - 130*	*09/19/11 08:52*	*09/19/11 12:46*	*1.00*
Toluene-d8	*98*		*70 - 130*	*09/19/11 08:52*	*09/19/11 12:46*	*1.00*
4-Bromofluorobenzene	*95*		*70 - 130*	*09/19/11 08:52*	*09/19/11 12:46*	*1.00*

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUI1823

Method: SW846 1312/8260 - SPLP Volatile Organics Method SW846 1312/8260B

Lab Sample ID: 11I3558-BLK1
Matrix: Water
Analysis Batch: U016546

Client Sample ID: Method Blank
Prep Type: SPLP
Prep Batch: 11I3558_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100		0.00100		mg/L		09/19/11 08:52	09/19/11 11:53	1.00
Ethylbenzene	<0.00100		0.00100		mg/L		09/19/11 08:52	09/19/11 11:53	1.00
Toluene	<0.00100		0.00100		mg/L		09/19/11 08:52	09/19/11 11:53	1.00
Xylenes, total	<0.00300		0.00300		mg/L		09/19/11 08:52	09/19/11 11:53	1.00
Methyl tert-Butyl Ether	<0.00100		0.00100		mg/L		09/19/11 08:52	09/19/11 11:53	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*103*		*70 - 130*	*09/19/11 08:52*	*09/19/11 11:53*	*1.00*
Dibromofluoromethane	*98*		*70 - 130*	*09/19/11 08:52*	*09/19/11 11:53*	*1.00*
Toluene-d8	*101*		*70 - 130*	*09/19/11 08:52*	*09/19/11 11:53*	*1.00*
4-Bromofluorobenzene	*96*		*70 - 130*	*09/19/11 08:52*	*09/19/11 11:53*	*1.00*

Lab Sample ID: 11I3558-BLK2
Matrix: Water
Analysis Batch: U016546

Client Sample ID: Method Blank
Prep Type: SPLP
Prep Batch: 11I3558_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100		0.00100		mg/L		09/19/11 08:52	09/19/11 12:20	1.00
Ethylbenzene	<0.00100		0.00100		mg/L		09/19/11 08:52	09/19/11 12:20	1.00
Toluene	<0.00100		0.00100		mg/L		09/19/11 08:52	09/19/11 12:20	1.00
Xylenes, total	<0.00300		0.00300		mg/L		09/19/11 08:52	09/19/11 12:20	1.00
Methyl tert-Butyl Ether	<0.00100		0.00100		mg/L		09/19/11 08:52	09/19/11 12:20	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*101*		*70 - 130*	*09/19/11 08:52*	*09/19/11 12:20*	*1.00*
Dibromofluoromethane	*100*		*70 - 130*	*09/19/11 08:52*	*09/19/11 12:20*	*1.00*
Toluene-d8	*102*		*70 - 130*	*09/19/11 08:52*	*09/19/11 12:20*	*1.00*
4-Bromofluorobenzene	*95*		*70 - 130*	*09/19/11 08:52*	*09/19/11 12:20*	*1.00*

Lab Sample ID: 11I3558-BS1
Matrix: Water
Analysis Batch: U016546

Client Sample ID: Lab Control Sample
Prep Type: SPLP
Prep Batch: 11I3558_P

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Benzene			50.0	47.0	MNR1	ug/L		94	80 - 121		
Ethylbenzene			50.0	45.8	MNR1	ug/L		92	80 - 130		
Toluene			50.0	47.5	MNR1	ug/L		95	80 - 126		
Xylenes, total			150	132	MNR1	ug/L		88	80 - 132		
Methyl tert-Butyl Ether			50.0	47.4	MNR1	ug/L		95	72 - 133		

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*95*		*70 - 130*
Dibromofluoromethane	*101*		*70 - 130*
Toluene-d8	*102*		*70 - 130*
4-Bromofluorobenzene	*102*		*70 - 130*

DRAFT

Method: SW846 1312/8260 - SPLP Volatile Organics Method SW846 1312/8260B (Continued)

Lab Sample ID: 11I3558-BSD1
Matrix: Water
Analysis Batch: U016546

Client Sample ID: Lab Control Sample Dup
Prep Type: SPLP
Prep Batch: 11I3558_P

Analyte			Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Benzene			50.0	51.2		ug/L		102	80 - 121	9	17
Ethylbenzene			50.0	48.1		ug/L		96	80 - 130	5	15
Toluene			50.0	50.3		ug/L		101	80 - 126	6	15
Xylenes, total			150	139		ug/L		93	80 - 132	5	15
Methyl tert-Butyl Ether			50.0	51.7		ug/L		103	72 - 133	9	16

Surrogate	*LCS Dup % Recovery*	*LCS Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*96*		*70 - 130*
Dibromofluoromethane	*100*		*70 - 130*
Toluene-d8	*101*		*70 - 130*
4-Bromofluorobenzene	*101*		*70 - 130*

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUI1823

GCMS Volatiles

Analysis Batch: U016546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11I3558-BLK1	Method Blank	SPLP	Water	SW846 1312/8260	11I3558_P
11I3558-BLK2	Method Blank	SPLP	Water	SW846 1312/8260	11I3558_P
11I3558-BS1	Lab Control Sample	SPLP	Water	SW846 1312/8260	11I3558_P
11I3558-BSD1	Lab Control Sample Dup	SPLP	Water	SW846 1312/8260	11I3558_P
NUI1823-01	SS-10 (6-8')	SPLP	Soil	SW846 1312/8260	11I3558_P

Prep Batch: 11I3558_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11I3558-BLK1	Method Blank	SPLP	Water	EPA 5030B	
11I3558-BLK2	Method Blank	SPLP	Water	EPA 5030B	
11I3558-BS1	Lab Control Sample	SPLP	Water	EPA 5030B	
11I3558-BSD1	Lab Control Sample Dup	SPLP	Water	EPA 5030B	
NUI1823-01	SS-10 (6-8')	SPLP	Soil	EPA 5030B	

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Lab Chronicle

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUI1823

Client Sample ID: SS-10 (6-8')
Date Collected: 09/14/11 09:52
Date Received: 09/15/11 15:01

Lab Sample ID: NUI1823-01
Matrix: Soil
Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
SPLP	Prep	EPA 5030B		1.00	11I3558_P	09/19/11 08:52	MLG	TAL NSH
SPLP	Analysis	SW846 1312/8260		1.00	U016546	09/19/11 12:46	MLG	TAL NSH

Laboratory References:
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

DRAFT

Method Summary

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUI1823

Method	Method Description	Protocol	Laboratory
SW846 1312/8260	SPLP Volatile Organics Method SW846 1312/8260B		TAL NSH

Protocol References:

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

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Certification Summary

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUI1823

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	A2LA	WY UST		453.07
TestAmerica Nashville	AIHA	IHLAP		100790
TestAmerica Nashville	Alabama	State Program	4	41150
TestAmerica Nashville	Alaska	Alaska UST	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas	State Program	6	88-0737
TestAmerica Nashville	CALA	CALA		3744
TestAmerica Nashville	California	NELAC	9	1168CA
TestAmerica Nashville	Colorado	State Program	8	N/A
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAC	4	E87358
TestAmerica Nashville	Illinois	NELAC	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAC	7	E-10229
TestAmerica Nashville	Kentucky	Kentucky UST	4	19
TestAmerica Nashville	Kentucky	State Program	4	90038
TestAmerica Nashville	Louisiana	NELAC	6	30613
TestAmerica Nashville	Louisiana	NELAC	6	LA100011
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAC	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana	MT DEQ UST	8	NA
TestAmerica Nashville	Nevada	State Program	9	TN00032
TestAmerica Nashville	New Hampshire	NELAC	1	2963
TestAmerica Nashville	New Jersey	NELAC	2	TN965
TestAmerica Nashville	New York	NELAC	2	11342
TestAmerica Nashville	North Carolina	North Carolina DENR	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio	OVAP	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAC	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAC	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAC	6	T104704077-09-TX
TestAmerica Nashville	USDA	USDA		S-48469
TestAmerica Nashville	Utah	NELAC	8	TAN
TestAmerica Nashville	Virginia	NELAC Secondary AB	3	460152
TestAmerica Nashville	Virginia	State Program	3	00323
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia	West Virginia DEP	3	219

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

DRAFT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEI

NUI1823

Cooler Received/Opened On 9/15/2011 @0835

1. Tracking # 2019 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 14740456

2. Temperature of rep. sample or temp blank when opened: 4.7 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: 0

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) _____

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, Soil

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) _____

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) _____

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) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...#_____

DRAFT

BIS = Broken in shipment
Cooler Receipt Form.doc

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville Division
2960 Foster Creighton
Nashville, TN 37204
Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

Shell Oil

Consultant Name: Groundwater & Environmental Services, Inc.
Address: 6500 NW 12th Ave, Suite 109
City/State/Zip: Ft. Lauderdale, FL 33309
Shell Project Mgr: Annette Dokken
Consultant Project Mgr: Mike Berzinsky
Consultant Telephone Number: (866) 565-7650
Fax No.: (866) 334-9883
Sampler Name: (Print) Brittney Robinson
Sampler Signature: Brittney Robinson

TA Account #: 1318
PO#:
Invoice To: GES, Inc.
Report To: Mike Berzinsky
Project Name: SHE-390
SAP #: 100700
Incident #:
Site Address 390 S Powerline Rd
City, State, Zip Deerfield Beach, FL
Regulatory District (CA)

Sample ID or Field ID	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Methanol	Di Water	HCl (Blue Label)	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass/Yellow Label)	HNO_3 (Red Label)	None (Black Label)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify)	Analyze For: SPLP Extraction (1312) BTEX/MTBE (8260B)	HOLD SPLP BTEX/MTBE (8260B)	RUSH TAT (Pre-Scheduled) *	TAT request (in Bus. Days)	Fax Results (yes or no)	Due Date of Report
SS-10 (6-8')	9/14/11	9:52	4	X			1	2						1					X		X					
SS-11 (6-8')	9/14/11	12:50	4	X			1	2						1					X		X		5			
~~SS-12 (6-8')~~	~~9/14/11~~		4	X			1	2						1					X		X					

Comments/Special Instructions:
FDEP Rates: BTEX/MTBE (8260B) $67.23 each- soil, if needed.
SPLP Extraction (EPA 1312) $101.10 each, BTEX/MTBE on Extraction sample $60.67 each
Run 8260B BTEX/MTBE on the SS-10 (6-8) Extraction sample.

	Date	Time		Date	Time
Relinquished by:	9/14/11	15:00	Received by:	9-14-11	1500
Relinquished by:	9-14-11	1800	Received by:		
Relinquished by:			Received by TestAmerica:	9-15-11	0835

Laboratory Comments:
Temperature Upon Receipt: 4.7
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
QC Deliverables (please circle one)
Level 2 Level 3 Level 4 Other

* It will be the responsibility of ExxonMobil or its consultant to notify the TestAmerica Project Manager by phone or fax that a rush sample will be submitted.
TA Project Manager: Date:

DRAFT

APPENDIX D

Well Construction and Development Logs and Well Completion Reports

DRAFT

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-17R	SHE-390	06-8731807	8/2/11

Well Location and Type (check appropriate boxes):
- [x] On-Site
- [ ] Right-of-Way
- [ ] Off-Site Private Property
- [ ] Above Grade (AG)
- [x] Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose:
- [ ] Perched Monitoring
- [x] Shallow (Water-Table) Monitoring
- [ ] Intermediate or Deep Monitoring
- [ ] Remediation or Other (describe)

Well Install Method: Auger

Surface Casing Install Method: NA

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
13'	13'	12"	8"	2 feet by 2 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
2" 40 Schedule PVC	[x] Flush-Threaded [ ] Other (describe)	3 feet from 0 feet to 3 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
2" 40 Schedule PVC	0.010"	10 feet from 3 feet to 13 feet

1st Surface Casing Material: NA also check: [ ] Permanent [ ] Temporary	1st Surface Casing I.D. (inches):	1st Surface Casing Length: ____ feet from ____ feet to ____ feet
2nd Surface Casing Material: NA also check: [ ] Permanent [ ] Temporary	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length: ____ feet from ____ feet to ____ feet
3rd Surface Casing Material: NA also check: [ ] Permanent [ ] Temporary	3rd Surface Casing I.D. (inches):	3rd Surface Casing Length: ____ feet from ____ feet to ____ feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
6/20 Silica Sand	[ ] Yes [x] No	11 feet from 2 feet to 13 feet

Filter Pack Seal Material and Size:	Filter Pack Seal Length:
30/65 Silica Sand	1.5 feet from 0.5 feet to 2 feet

Surface Seal Material:	Surface Seal Length:
Grout	0.5 feet from 0 feet to 0.5 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):
8/2/11	[x] Surge/Pump [ ] Pump [ ] Compressed Air [ ] Other (describe)

Development Pump Type (check):	Depth to Groundwater (before developing in feet):
[x] Centrifugal [ ] Peristaltic [ ] Submersible [ ] Other (describe)	7.41' bls.

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
~2.2 gpm	~1-2'	[ ] Yes [x] No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
[x] Continuous [ ] Intermittent	55 gal.	25 min.	[x] Yes [ ] No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
Cloudy, odor.	Clear, odor.

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

14:05 - start developing well.
14:30 - end developing well.

DRAFT

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-18R	SHE-390	06-8731807	8/2/11

Well Location and Type (check appropriate boxes): [x] On-Site [ ] Right-of-Way [ ] Off-Site Private Property [ ] Above Grade (AG) [x] Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose: [ ] Perched Monitoring [x] Shallow (Water-Table) Monitoring [ ] Intermediate or Deep Monitoring [ ] Remediation or Other (describe)

Well Install Method: Auger

Surface Casing Install Method: NA

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
13'	13'	12"	8"	2 feet by 2 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
2" 40 Schedule PVC	[x] Flush-Threaded [ ] Other (describe)	3 feet from 0 feet to 3 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
2" 40 Schedule PVC	0.010"	10 feet from 3 feet to 13 feet

1st Surface Casing Material: NA also check: [ ] Permanent [ ] Temporary	1st Surface Casing I.D. (inches):	1st Surface Casing Length: ____ feet from ____ feet to ____ feet
2nd Surface Casing Material: NA also check: [ ] Permanent [ ] Temporary	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length: ____ feet from ____ feet to ____ feet
3rd Surface Casing Material: NA also check: [ ] Permanent [ ] Temporary	3rd Surface Casing I.D. (inches):	3rd Surface Casing Length: ____ feet from ____ feet to ____ feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
6/20 Silica Sand	[ ] Yes [x] No	11 feet from 2 feet to 13 feet

Filter Pack Seal Material and Size:	Filter Pack Seal Length:
30/65 Silica Sand	1.5 feet from 0.5 feet to 2 feet

Surface Seal Material:	Surface Seal Length:
Grout	0.5 feet from 0 feet to 0.5 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):
8/2/11	[x] Surge/Pump [ ] Pump [ ] Compressed Air [ ] Other (describe)

Development Pump Type (check):	Depth to Groundwater (before developing in feet):
[x] Centrifugal [ ] Peristaltic [ ] Submersible [ ] Other (describe)	7.44 to 7.77

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
~2.75 gpm	~1-2'	[ ] Yes [x] No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
[x] Continuous [ ] Intermittent	55 gal.	20 min.	[x] Yes [ ] No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
Cloudy, odor	Clear, odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

15:00 - Start developing well.

15:20 - end

DRAFT

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-19R	SHE-390	06-8731807	8/2/11

Well Location and Type (check appropriate boxes):
- [x] On-Site
- [ ] Right-of-Way
- [ ] Off-Site Private Property
- [ ] Above Grade (AG)
- [x] Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose:
- [ ] Perched Monitoring
- [x] Shallow (Water-Table) Monitoring
- [ ] Intermediate or Deep Monitoring
- [ ] Remediation or Other (describe)

Well Install Method: Auger

Surface Casing Install Method: NA

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
13'	13'	12"	8"	2 feet by 2 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
2" 40 Schedule PVC	[x] Flush-Threaded [ ] Other (describe)	3 feet from 0 feet to 3 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
2" 40 Schedule PVC	0.010"	10 feet from 3 feet to 13 feet

1st Surface Casing Material: NA also check: [ ] Permanent [ ] Temporary	1st Surface Casing I.D. (inches):	1st Surface Casing Length: ____ feet from ____ feet to ____ feet
2nd Surface Casing Material: NA also check: [ ] Permanent [ ] Temporary	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length: ____ feet from ____ feet to ____ feet
3rd Surface Casing Material: NA also check: [ ] Permanent [ ] Temporary	3rd Surface Casing I.D. (inches):	3rd Surface Casing Length: ____ feet from ____ feet to ____ feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
6/20 Silica Sand	[ ] Yes [x] No	11 feet from 2 feet to 13 feet

Filter Pack Seal Material and Size:	Filter Pack Seal Length:
30/65 Silica Sand	1.5 feet from 0.5 feet to 2 feet

Surface Seal Material:	Surface Seal Length:
Grout	0.5 feet from 0 feet to 0.5 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):
8/2/11	[x] Surge/Pump [ ] Pump [ ] Compressed Air [ ] Other (describe)

Development Pump Type (check):	Depth to Groundwater (before developing in feet):
[x] Centrifugal [ ] Peristaltic [ ] Submersible [ ] Other (describe)	9.95' bls.

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
~2 gpm	~~~1.5'~~ ~1-2'	[ ] Yes [x] No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
[x] Continuous [ ] Intermittent	~40 gal.	20 min	[ ] Yes [x] No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
Milky (cloudy), NO odor	Clear, no odor.

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

13:42 - Start developing well.
14:02 - End developing well.

DRAFT

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-22D-R	SHE-390	06-8731807	8/3/11

Well Location and Type (check appropriate boxes): ☑ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☐ Above Grade (AG) ☑ Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose: ☐ Perched Monitoring ☐ Shallow (Water-Table) Monitoring ☑ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)

Well Install Method: Auger

Surface Casing Install Method: NA

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
35'	35'	12"	8"	2 feet by 2 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
2" 40 Schedule PVC	☑ Flush-Threaded ☐ Other (describe)	30 feet from 0 feet to 30 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
2" 40 Schedule PVC	0.010"	5 feet from 30 feet to 35 feet

	1st Surface Casing I.D. (inches):	1st Surface Casing Length:
1st Surface Casing Material: NA also check: ☐ Permanent ☐ Temporary		feet from feet to feet
2nd Surface Casing Material: NA also check: ☐ Permanent ☐ Temporary	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length: feet from feet to feet
3rd Surface Casing Material: NA also check: ☐ Permanent ☐ Temporary	3rd Surface Casing I.D. (inches):	3rd Surface Casing Length: feet from feet to feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
6/20 Silica Sand	☐ Yes ☑ No	7 feet from 35 feet to 28 feet

Filter Pack Seal Material and Size:	Filter Pack Seal Length:
30/65 Silica Sand	2 feet from 26 feet to 28 feet

Surface Seal Material:	Surface Seal Length:
Grout	26 feet from 0 feet to 26 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):
8/3/11	☑ Surge/Pump ☐ Pump ☐ Compressed Air ☐ Other (describe)

Development Pump Type (check):	Depth to Groundwater (before developing in feet):
☑ Centrifugal ☐ Peristaltic ☐ Submersible ☐ Other (describe)	7.40

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
~2 gal/min.	~0.02'	☐ Yes ☐ No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
☑ Continuous ☐ Intermittent	40 gal.	20 min.	☐ Yes ☑ No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
Milky, NO odor	Clear, NO odor.

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

13:07 - start developing well
13:27 - end developing well

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-39	FCE-1801	06/8731807	8/17/11

Well Location and Type (check appropriate boxes): [X] On-Site [ ] Right-of-Way [ ] Off-Site Private Property [ ] Above Grade (AG) [X] Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose: [ ] Perched Monitoring [X] Shallow (Water-Table) Monitoring [ ] Intermediate or Deep Monitoring [ ] Remediation or Other (describe)

Well Install Method: HSA

Surface Casing Install Method: NA

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
13	13	10	8	2 feet by 2 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
2" PVC / SCH 40	[X] Flush-Threaded [ ] Other (describe)	3 feet from 0 feet to 3 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
2" PVC / SCH 40	0.010	10 feet from 3 feet to 13 feet

1st Surface Casing Material: also check: [ ] Permanent [ ] Temporary	1st Surface Casing I.D. (inches): NA	1st Surface Casing Length: ____ feet from ____ feet to ____ feet
2nd Surface Casing Material: NA also check: [ ] Permanent [ ] Temporary	2nd Surface Casing I.D. (inches): NA	2nd Surface Casing Length: ____ feet from ____ feet to ____ feet
3rd Surface Casing Material: NA also check: [ ] Permanent [ ] Temporary	3rd Surface Casing I.D. (inches): NA	3rd Surface Casing Length: ____ feet from ____ feet to ____ feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
20/30 silica sand	[ ] Yes [ ] No	11 feet from 13 feet to 2 feet

Filter Pack Seal Material and Size:	Filter Pack Seal Length:
fine silica sand	1.5 feet from 2 feet to 0.5 feet

Surface Seal Material:	Surface Seal Length:
Concrete/grout	0.5 feet from 0.5 feet to 0 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one): [X] Surge/Pump [ ] Pump [ ] Compressed Air [ ] Other (describe)
8/17/2011	

Development Pump Type (check): [X] Centrifugal [ ] Peristaltic [ ] Submersible [ ] Other (describe)	Depth to Groundwater (before developing in feet):
	6.5

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): [ ] Yes [X] No
3.68	0.85	

Pumping Condition (check one): [X] Continuous [ ] Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): [X] Yes [ ] No
	55	15	

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
Start Time: 1:20pm / cloudy / odor	Stop Time: 1:35pm clear / odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

7.35 ft (After) − 6.5 ft (before) = 0.85 ft Drawdown

DRAFT

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-40	FCE-1801	06/8731807	8/17/11

Well Location and Type (check appropriate boxes): [X] On-Site [ ] Right-of-Way [ ] Off-Site Private Property [ ] Above Grade (AG) [X] Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose: [ ] Perched Monitoring [X] Shallow (Water-Table) Monitoring [ ] Intermediate or Deep Monitoring [ ] Remediation or Other (describe)

Well Install Method: HSA

Surface Casing Install Method: NA

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
13	13	10	8	2 feet by 2 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
2" PVC/SCH 40	[X] Flush-Threaded [ ] Other (describe)	____ feet from ____ feet to ____ feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
2" PVC/SCH 40	0.010	____ feet from ____ feet to ____ feet

1st Surface Casing Material:	1st Surface Casing I.D. (inches):	1st Surface Casing Length:
also check: [ ] Permanent [ ] Temporary	NA	____ feet from ____ feet to ____ feet

2nd Surface Casing Material:	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length:
NA also check: [ ] Permanent [ ] Temporary	NA	____ feet from ____ feet to ____ feet

3rd Surface Casing Material:	3rd Surface Casing I.D. (inches):	3rd Surface Casing Length:
NA also check: [ ] Permanent [ ] Temporary	NA	____ feet from ____ feet to ____ feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
20/30 silica sand	[ ] Yes [X] No	11 feet from 13 feet to 2 feet

Filter Pack Seal Material and Size:	Filter Pack Seal Length:
fine silica sand	1.5 feet from 2 feet to 0.5 feet

Surface Seal Material:	Surface Seal Length:
concrete/grout	0.5 feet from 0.5 feet to 0 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):	
8/17/11	[X] Surge/Pump [ ] Pump [ ] Compressed Air [ ] Other (describe)	

Development Pump Type (check):	Depth to Groundwater (before developing in feet):
[X] Centrifugal [ ] Peristaltic [ ] Submersible [ ] Other (describe)	6.85

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
2.07	0.05	[ ] Yes [X] No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
[X] Continuous [ ] Intermittent	27	13	[X] Yes [ ] No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
Start Time: 1:42pm cloudy/odor	Stop Time: 1:55pm clear/odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

6.4ft 6.85ft = 0.05ft Draw Down

DRAFT

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-41	FCE-1801	06/8731807	8/17/2011

Well Location and Type (check appropriate boxes): ☒ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☐ Above Grade (AG) ☒ Flush-to-Grade
If AG, list feet of riser above land surface:

Well Purpose: ☐ Perched Monitoring ☒ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)

Well Install Method: HSA

Surface Casing Install Method: NA

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
13	13	10	8	2 feet by 2 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
2" PVC / SCH 40	☒ Flush-Threaded ☐ Other (describe)	3 feet from 0 feet to 3 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
2" PVC / SCH 40	0.010	10 feet from 3 feet to 13 feet

1st Surface Casing Material:	1st Surface Casing I.D. (inches):	1st Surface Casing Length:
also check: ☐ Permanent ☐ Temporary	NA	____ feet from ____ feet to ____ feet

2nd Surface Casing Material:	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length:
NA also check: ☐ Permanent ☐ Temporary	NA	____ feet from ____ feet to ____ feet

3rd Surface Casing Material:	3rd Surface Casing I.D. (inches):	3rd Surface Casing Length:
NA also check: ☐ Permanent ☐ Temporary	NA	____ feet from ____ feet to ____ feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
20/30 Silica sand	☐ Yes ☒ No	11 feet from 13 feet to 2 feet

Filter Pack Seal Material and Size:	Filter Pack Seal Length:
fine Silica sand	1.5 feet from 2 feet to 0.5 feet

Surface Seal Material:	Surface Seal Length:
concrete/grout	0.5 feet from 0.5 feet to 0 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):
8/17/2011	☒ Surge/Pump ☐ Pump ☐ Compressed Air ☐ Other (describe)

Development Pump Type (check):	Depth to Groundwater (before developing in feet):
☒ Centrifugal ☐ Peristaltic ☐ Submersible ☐ Other (describe)	6.2ft

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
1.58	0.3	☐ Yes ☒ No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
☒ Continuous ☐ Intermittent	27	17	☒ Yes ☐ No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
Start time: 2:48pm cloudy/odor	Stop time: 3:05pm clear/slight odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

6.5ft - 6.2ft = 0.3ft Draw Down

DRAFT

WELL COMPLETION REPORT

FORM 0124
Rev. 11/90

WELL PERMIT NO. 6-11-1109 — 6-11-1116WP
SFWMD WATER USE PERMIT NO. _____

Owner: First Coast Energy, LLP. Address: 390 S. Powerline Road City: Deerfield Beach State: FL Zip: 33442

Contractor's Signature: _____ License No.: 1031 Completion Date: 8/3/11 Casing Depth: 3' Total Depth: 13' Well #: MW-17R, 18R, 19R

TYPE OF WORK: Construct (✓) Repair ( ) Abandon ( )
WELL USE: Domestic Well ( ) Public ( ) Monitor (✓) Test ( )
Irrigation ( ) FireWell ( ) Other _____
METHOD: Rotary with MUD ( ) or Air ( ), Cable Tool ( ), Jet ( )
Casing Driven ( ), Other HSA
STATIC WATER LEVEL 2.5 Ft. below top of casing
PUMPING WATER LEVEL _____ Ft, after _____ Hrs. at _____ GPM
PUMP SIZE _____ H.P. CAPACITY _____ GPM
PUMP TYPE _____ INTAKE DEPTH _____ From top of ground

LOCATION

Located Near VST

County Broward

3 48S 42E
1/4 1/4 Section Township Range

Latitude-Longitude

Cuttings sent to District? ( ) Yes ( ) No

LOCATE IN SECTION

Grout Thickness & Depth	Casing & Screen Diameter & Depth		Depth (R) From	Depth (R) To	DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes Give color, grain size, and type of material Note cavities, depth to producing zones.
3"	2"		0	13'	BR FM SAND
1	1				
1'	1				
	3'	2"			
		1			
		13'			
Number of bags					
.5					

Casing: Black Steel ( ) Galv. ( ) PVC (✓) Fiberglass ( )
Screen: Type SCH 40 Slot size .010
Screened from 3 (ft.) to 13 (ft.)
Type of grout with % additives Portland
Water: Clear (✓) Colored ( ) Sulphur ( ) Salty ( ) Iron ( )
Conductivity _____ Chlorides _____ mg/l

Note: PWS Wells attach a site map if well location is different from site location on permit application.

DRAFT

WELL COMPLETION REPORT

FORM 0124
Rev. 11/90

WELL PERMIT NO. 6-11-1108-WP
SFWMD WATER USE PERMIT NO. _____

First Coast Energy, LLP, 390 S. Powerline Road, Deerfield Beach, FL 33442
Owner Address City State Zip

Contractor's Signature | 11031 License No. | 8/3/11 Completion Date | 30' Casing Depth | 35' Total Depth | MW-22D-R Well #

TYPE OF WORK: Construct (✓) Repair ( ) Abandon ( )
WELL USE: Domestic Well ( ) Public ( ) Monitor (✓) Test ( )
Irrigation ( ) FireWell ( ) Other _____
METHOD: Rotary with MUD ( ) or Air ( ), Cable Tool ( ), Jet ( )
Casing Driven ( ), Other HSA
STATIC WATER LEVEL 5.5 Ft. below top of casing
PUMPING WATER LEVEL _____ Ft, after _____ Hrs. at _____ GPM
PUMP SIZE _____ H.P. CAPACITY _____ GPM
PUMP TYPE _____ INTAKE DEPTH _____ From top of ground

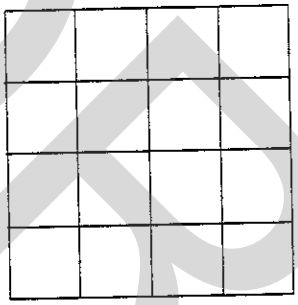
LOCATION

Located Near VST

County Broward

3 (1/4) (1/4) Section | 48S Township | 42E Range

Latitude-Longitude



LOCATE IN SECTION

Cuttings sent to District? ( ) Yes ( ) No

Note: PWS Wells attach a site map if well location is different from site location on permit application.

Grout Thickness & Depth	Casing & Screen Diameter & Depth	Depth (R) From	Depth (R) To	DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes Give color, grain size, and type of material Note cavities, depth to producing zones.
3"	2"	0	35'	BR Fm Sand & LS
27'	30' 2"			
	35'			
Number of bags: 4				

Casing: Black Steel ( ) Galv. ( ) PVC (✓) Fiberglass ( )
Screen: Type SC.40 Slot size .020
Screened from 30 (ft.) to 35 (ft.)
Type of grout with % additives Portland
Water: Clear (✓) Colored ( ) Sulphur ( ) Salty ( ) Iron ( )
Conductivity _____ Chlorides _____ mg/l

DRAFT

WELL COMPLETION REPORT

FORM 0124
Rev. 11/90

WELL PERMIT NO. _____
SFWMD WATER USE PERMIT NO. _____

First Coast Energy, LLP, 390 S. Powerline Rd., Deerfield Beach, FL 33442
Owner — Address — City — State — Zip

Contractor's Signature — License No. 1031 — Completion Date 8/17/11 — Casing Depth 3' — Total Depth 13' — Well # MW-39, 40, 41

TYPE OF WORK: Construct (✓) Repair ( ) Abandon ( )
WELL USE: Domestic Well ( ) Public ( ) Monitor (✓) Test ( )
Irrigation ( ) FireWell ( ) Other _____
METHOD: Rotary with MUD ( ) or Air ( ), Cable Tool ( ), Jet ( )
Casing Driven (✓), Other HSA
STATIC WATER LEVEL 5.2 Ft. below top of casing
PUMPING WATER LEVEL _____ Ft, after _____ Hrs. at _____ GPM
PUMP SIZE _____ H.P. CAPACITY _____ GPM
PUMP TYPE _____ INTAKE DEPTH _____ From top of ground

LOCATION

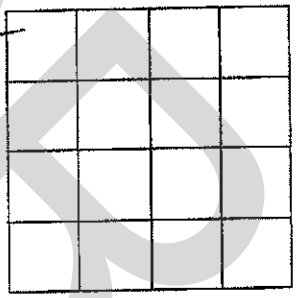
Located Near FORMER UST

County Broward

1/4 1/4 Section 03 Township 48S Range 42E

Latitude-Longitude

Cuttings sent to District? ( ) Yes ( ) No


LOCATE IN SECTION

Note: PWS Wells attach a site map if well location is different from site location on permit application.

Grout Thickness & Depth	Casing & Screen Diameter & Depth	Depth (ft) From	Depth (ft) To	DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes. Give color, grain size, and type of material. Note cavities, depth to producing zones.
3"	2"	0	13'	BR FM SAND
1'	1'			
1'	3'			
	2"			
	13'			
Number of bags				
.50				

Casing: Black Steel ( ) Galv. ( ) PVC (✓) Fiberglass ( )
Screen: Type S.40 Slot size .010
Screened from 3 (ft.) to 13 (ft.)
Type of grout with % additives Portland
Water: Clear (✓) Colored ( ) Sulphur ( ) Salty ( ) Iron ( )
Conductivity _____ Chlorides _____ mg/l

DRAFT

WELL COMPLETION REPORT

FORM 0124
Rev. 11/90

WELL PERMIT NO. _____
SFWMD WATER USE PERMIT NO. _____

First Coast Energy, LLP. 390 S. Powerline Road, Deerfield Beach, FL 33442

Owner	Address	City	State	Zip
Contractor's Signature	License No.	Completion Date	Casing Depth	Total Depth	Well #
	11031	8/3/11	4'	14'	OW-11

TYPE OF WORK: Construct ( ) Repair ( ) Abandon (✓)
WELL USE: Domestic Well ( ) Public ( ) Monitor (✓) Test ( )
Irrigation ( ) FireWell ( ) Other _____
METHOD: Rotary with MUD ( ) or Air ( ), Cable Tool ( ), Jet ( )
Casing Driven ( ), Other HSA
STATIC WATER LEVEL 4.2 Ft. below top of casing
PUMPING WATER LEVEL _____ Ft, after _____ Hrs. at _____ GPM
PUMP SIZE _____ H.P. CAPACITY _____ GPM
PUMP TYPE _____ INTAKE DEPTH _____ From top of ground

LOCATION

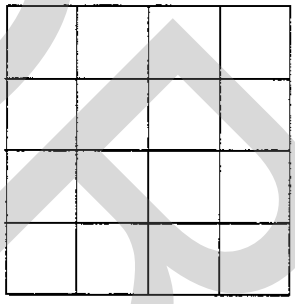
Located Near US1

County Broward

03 48S 42E
1/4 1/4 Section Township Range

Latitude-Longitude

Cuttings sent to District? ( ) Yes ( ) No



LOCATE IN SECTION

Note: PWS Wells attach a site map if well location is different from site location on permit application.

Grout Thickness & Depth	Casing & Screen Diameter & Depth		Depth (ft) From	Depth (ft) To	DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes Give color, grain size, and type of material Note cavities, depth to producing zones.
4"	4"				
	4"	4"			
14'					
		14'			
Number of bags					
1					

Casing: Black Steel ( ) Galv. ( ) PVC (✓) Fiberglass ( )
Screen: Type SC40 Slot size .020
Screened from 4 (ft.) to 14 (ft.)
Type of grout with % additives Portland
Water: Clear (✓) Colored ( ) Sulphur ( ) Salty ( ) Iron ( )
Conductivity _____ Chlorides _____ mg/l

DRAFT

WELL COMPLETION REPORT

FORM 0124
Rev. 11/90

WELL PERMIT NO. _____
SFWMD WATER USE PERMIT NO. _____

Owner	Address	City	State	Zip
First Coast Energy, LLP	390 S. Powerline Rd.	Deerfield Beach	FL	33442

Contractor's Signature	License No.	Completion Date	Casing Depth	Total Depth	Well #
	1031	8/17/11	5'	15'	OW-14

TYPE OF WORK: Construct ( ) Repair ( ) Abandon (✓)
WELL USE: Domestic Well ( ) Public ( ) Monitor (✓) Test ( )
Irrigation ( ) FireWell ( ) Other _____
METHOD: Rotary with MUD ( ) or Air ( ), Cable Tool ( ), Jet ( )
Casing Driven ( ), Other HSA
STATIC WATER LEVEL _____ Ft. below top of casing
PUMPING WATER LEVEL _____ Ft, after _____ Hrs. at _____ GPM
PUMP SIZE _____ H.P. CAPACITY _____ GPM
PUMP TYPE _____ INTAKE DEPTH _____ From top of ground

LOCATION

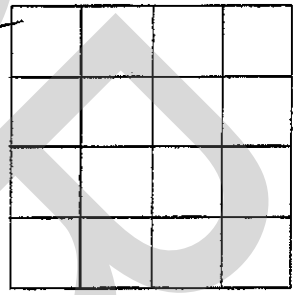
Located Near Edmon US1

County Broward

1/4	1/4	Section	Township	Range
		03	48S	42E

Latitude-Longitude

Cuttings sent to District? ( ) Yes ( ) No



Note: PWS Wells attach a site map if well location is different from site location on permit application.

Grout Thickness & Depth	Casing & Screen Diameter & Depth		Depth (R) From	Depth (R) To	DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes Give color, grain size, and type of material Note cavities, depth to producing zones.
2"	2"				
	5'	2"			
15'		15'			
Number of bags					
1					

Casing: Black Steel ( ) Galv. ( ) PVC (✓) ~~Fiberglass~~ ( )
Screen: Type SCH 40 Slot size .010
Screened from 5 (ft.) to 15 (ft.)
Type of grout with % additives Portland
Water: Clear (✓) ~~Colored~~ ( ) Sulphur ( ) Salty ( ) Iron ( )
Conductivity _____ Chlorides _____ mg/l

DRAFT

WELL COMPLETION REPORT

FORM 0124
Rev. 11/90

WELL PERMIT NO. _____
SFWMD WATER USE PERMIT NO. _____

First Coast Energy, LLP, 390 S. Powerline Road, Deerfield Beach, FL 33442
Owner | Address | City | State | Zip

Contractor's Signature | 11031 License No. | 8/3/11 Completion Date | 20' Casing Depth | 25' Total Depth | OW-16D Well #

TYPE OF WORK: Construct ( ) Repair ( ) Abandon (✓)
WELL USE: Domestic Well ( ) Public ( ) Monitor (✓) Test ( )
Irrigation ( ) FireWell ( ) Other _____
METHOD: Rotary with MUD ( ) or Air ( ), Cable Tool ( ), Jet ( )
Casing Driven ( ), Other HSA
STATIC WATER LEVEL 4.5 Ft. below top of casing
PUMPING WATER LEVEL _____ Ft, after _____ Hrs. at _____ GPM
PUMP SIZE _____ H.P. CAPACITY _____ GPM
PUMP TYPE _____ INTAKE DEPTH _____ From top of ground

LOCATION

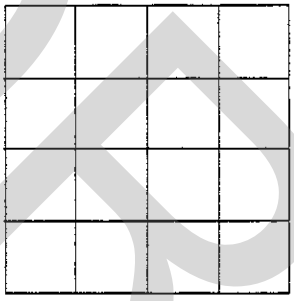
Located Near UST

County Broward

03 | 48S | 42E
1/4 1/4 Section | Township | Range

Latitude-Longitude

Cuttings sent to District? ( ) Yes ( ) No



LOCATE IN SECTION

Note: PWS Wells attach a site map if well location is different from site location on permit application.

Grout Thickness & Depth	Casing & Screen Diameter & Depth	Depth (R) From	Depth (R) To	DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes Give color, grain size, and type of material Note cavities, depth to producing zones.
2" 25'	2" 20'			
	2" 25'			
Number of bags: 1				

Casing: Black Steel ( ) Galv. ( ) PVC (✓) Fiberglass ( )
Screen: Type SC.40 Slot size .020
Screened from 20 (ft.) to 25 (ft.)
Type of grout with % additives Portland
Water: Clear (✓) Colored ( ) Sulphur ( ) Salty ( ) Iron ( )
Conductivity _____ Chlorides _____ mg/l

DRAFT

WELL COMPLETION REPORT

FORM 0124
Rev. 11/90

WELL PERMIT NO. _____
SFWMD WATER USE PERMIT NO. _____

First Coast Energy, LLP, 390 S. Powerline Road, Deerfield Beach, FL 33442
Owner | Address | City | State | Zip

Contractor's Signature | 11031 License No. | 8/3/11 Completion Date | 40' Casing Depth | 45' Total Depth | MW-28I Well #

TYPE OF WORK: Construct ( ) Repair ( ) Abandon (✓)
WELL USE: Domestic Well ( ) Public ( ) Monitor (✓) Test ( )
Irrigation ( ) FireWell ( ) Other _____
METHOD: Rotary with MUD ( ) or Air ( ), Cable Tool ( ), Jet ( )
Casing Driven ( ), Other HSA
STATIC WATER LEVEL 4.5 Ft. below top of casing
PUMPING WATER LEVEL _____ Ft, after _____ Hrs. at _____ GPM
PUMP SIZE _____ H.P. CAPACITY _____ GPM
PUMP TYPE _____ INTAKE DEPTH _____ From top of ground

LOCATION

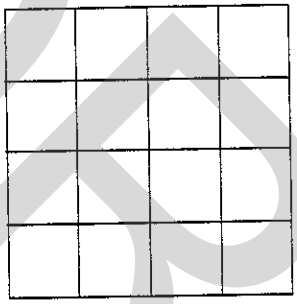
Located Near _____

County Broward

03 48S 42E
1/4 1/4 Section Township Range

Latitude-Longitude

Cuttings sent to District? ( ) Yes ( ) No


LOCATE IN SECTION

Note: PWS Wells attach a site map if well location is different from site location on permit application.

Grout	Casing & Screen	Depth (R)		DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes Give color, grain size, and type of material Note cavities, depth to producing zones.
Thickness & Depth	Diameter & Depth	From	To	
2"	2"			
	40'	2"		
45'		45'		
Number of bags				
2				

Casing: Black Steel ( ) Galv. ( ) PVC (✓) Fiberglass ( )
Screen: Type SC.40 Slot size .010
Screened from 40 (ft.) to 45 (ft.)
Type of grout with % additives Portland
Water: Clear (✓) Colored ( ) Sulphur ( ) Salty ( ) Iron ( )
Conductivity _____ Chlorides _____ mg/l

DRAFT

APPENDIX E

FDEP Groundwater Sampling Logs

DRAFT

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME	SHE-390	SITE LOCATION:	390 S Powerline Rd, Deerfield Beach
WELL NO:	OW-5	SAMPLE ID	OW-5
		DATE:	8/11/11

PURGING DATA

WELL Diameter (Inches):	TUBING DIAMETER (Inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
4.00	0.5	1.00 feet to 9.50 feet	6.61	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

(only fill out if applicable) = (10.12 feet - 6.61 feet) X 0.65 gallons/foot = 2.30 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. =PUMP Vol. + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL Vol.

(only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL:	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOL. PURGED:
6'	6'	10:05	10:21	3.40 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm)	DO (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:15	2.50	2.5	0.15	6.65	6.49	31.5	738	0.32	2.05	clear	none
10:18	0.45	2.95	0.15	6.83	6.50	31.5	723	0.12	1.30	clear	none
10:21	0.45	3.40	0.15	6.83	~~6.83~~ 6.51	31.5	719	0.08	1.39	clear	none

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:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Caitlin Farnsworth / GES, Inc.		10:25	10:30

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: _____ um
6'	PE		

FIELD DECONTAMINATION: PUMP Y (N) TUBING (Y) N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
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)
OW-5	3	CG	40 ml	HCL	NA	<2	8260 (BTEX/MTBE) 14-day	RFPP	100

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **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)

DRAFT

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME	SHE-390	SITE LOCATION:	390 S Powerline Rd, Deerfield Beach
WELL NO:	OW-8	SAMPLE ID OW-8	DATE: 8/11/11

PURGING DATA

WELL Diameter (Inches):	TUBING DIAMETER (Inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
4.00	0.5	4.70 feet to 14.70 feet	7.60	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

(only fill out if applicable) = (14.70 feet – feet) X 0.65 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. =PUMP Vol. + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL Vol.

(only fill out if applicable) = gallons + (0.006 gallons/foot X 14.0 feet) + 0.25 gallons = 0.33 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL:	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOL. PURGED:
10.0	10.0	10:50	11:26	gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm)	DO (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:20	5.0	5.0	0.15	7.60	6.58	30.2	628	0.07	1.37	clear	none
11:23	0.45	5.45	0.15	7.60	6.58	30.2	620	0.07	1.55	clear	none
11:26	0.45	5.90	0.15	7.60	6.58	30.2	618	0.07	1.41	clear	none

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:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Caitlin Farnsworth / GES, Inc.		11:30	11:35

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N)	FILTER SIZE: _____ um
10.0	PE	Filtration Equipment Type:	

FIELD DECONTAMINATION: PUMP Y (N) TUBING (Y) N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
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)
OW-8	3	CG	40 ml	HCL	NA	<2	8260 (BTEX/MTBE) 14-day	RFPP	100
OW-8	1	AG	40 ml	None	NA	NA	8270 (PAH)	APP	500

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **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)

DRAFT

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME	SHE-390	SITE LOCATION:	390 S Powerline Rd, Deerfield Beach
WELL NO:	OW-10	SAMPLE ID	OW-10
		DATE:	8/11/11

PURGING DATA

WELL Diameter (Inches):	TUBING DIAMETER (Inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
4.00	0.5	4.82 feet to 14.82 feet	7.45	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

(only fill out if applicable) = (14.82 feet - 7.45 feet) X 0.65 gallons/foot = 4.80 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. =PUMP Vol. + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL Vol.

(only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL:	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOL. PURGED:
10'	10'	11:40	12:21	5.90 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm)	DO (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
12:15	5.0	5.0	0.15	7.69	6.36	30.2	684	0.00	19.5	pale gray	moderate odors
12:18	0.45	5.45	0.15	7.69	6.36	30.2	688	0.00	17.3	clear	none
12:21	0.45	5.90	0.15	7.69	6.36	30.2	703	0.00	17.3	clear	none

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:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Caitlin Farnsworth / GES, Inc.		12:25	12:30

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: _____ um
10'	PE		

FIELD DECONTAMINATION: PUMP Y (N) TUBING (Y) N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
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)
OW-10	3	CG	40 ml	HCL	NA	<2	8260B (BTEX/MTBE/Oxyg.) 1	RFPP	100
OW-10	1	AG	40 ml	None	NA	NA	8270 (PAH)	APP	500

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME	SHE-390	SITE LOCATION:	390 S Powerline Rd, Deerfield Beach
WELL NO:	OW-12	SAMPLE ID	OW-12	DATE:	8/11/11

PURGING DATA

WELL Diameter (Inches):	TUBING DIAMETER (Inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2.00	0.5	4.33 feet to 14.33 feet	5.81	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY

(only fill out if applicable) = (14.33 feet - 5.81 feet) X 0.16 gallons/foot = 1.36 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. =PUMP Vol. + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL Vol.

(only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL:	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOL. PURGED:
7'	8'	15:12	15:30	2.25 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm)	DO (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
15:24	1.50	1.50	0.125	7.37	6.76	30.2	494	0.24	1.2	CLEAR	ODOR
15:27	0.375	1.875	0.125	7.38	6.76	30.1	491	0.20	1.3	CLEAR	ODOR
15:30	0.375	2.25	0.125	7.38	6.76	30.1	486	0.22	1.0	CLEAR	ODOR

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:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Jessica Sasser / GES, Inc.	Jessica Sasser	15:31	15:35

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N)	FILTER SIZE: _____ um
8'	PE	Filtration Equipment Type:	

FIELD DECONTAMINATION: PUMP Y (N) TUBING (Y) N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
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)
OW-12	3	CG	40 ml	HCL	NA	<2	8260B (BTEX/MTBE/Oxyg.) 1	RFPP	100
OW-12	1	AG	40 ml	None	NA	NA	8270 (PAH)	APP	500

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **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)

DRAFT

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME	SHE-390	SITE LOCATION:	390 S Powerline Rd, Deerfield Beach
WELL NO:	OW-15	SAMPLE ID OW-15	DATE: 8/11/11

PURGING DATA

WELL Diameter (Inches):	TUBING DIAMETER (Inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2.00	0.5	5.00 feet to 15.00 feet	5.79	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

(only fill out if applicable) = (15.00 feet - 5.79 feet) X 0.16 gallons/foot = 1.47 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. =PUMP Vol. + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL Vol.

(only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL:	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOL. PURGED:
7'	7'	13:35	13:53	2.25 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm)	DO (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
13:41	1.50	1.50	0.125	5.88	7.42	29.7	190.3	3.69	9.6	CLEAR	NONE
13:50	0.375	1.875	0.125	5.88	7.44	29.7	188.9	3.65	9.5	CLEAR	NONE
13:53	0.375	2.25	0.125	5.88	7.44	29.7	188.5	3.56	9.0	CLEAR	NONE

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:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Jessica Sasser / GES, Inc.	Jessica Sasser	13:54	13:56

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N)	FILTER SIZE: _____ um
7'	PE	Filtration Equipment Type:	

FIELD DECONTAMINATION: PUMP Y (N) TUBING (Y) (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
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)
OW-15	3	CG	40 ml	HCL	NA	<2	8260 (BTEX/MTBE) 14-day	RFPP	100

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **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)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME	SHE-390	SITE LOCATION:	390 S Powerline Rd, Deerfield Beach
WELL NO:	OW-16	SAMPLE ID	OW-16 DATE: 8/11/11

PURGING DATA

WELL Diameter (Inches):	TUBING DIAMETER (Inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2.00	0.5	4.91 feet to 14.91 feet	6.09	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

(only fill out if applicable) = (14.91 feet - 6.09 feet) X 0.16 gallons/foot = 1.41 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. =PUMP Vol. + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL Vol.

(only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL:	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOL. PURGED:
7'	7'	14:09	14:27	2.25 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm)	DO (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
14:21	1.50	1.50	0.125	6.10	7.06	29.1	338.4	0.55	1.4	CLEAR	NONE
14:24	0.375	1.875	0.125	6.10	7.06	29.0	340.1	0.52	1.4	CLEAR	NONE
14:27	0.375	2.25	0.125	6.10	7.06	29.1	340.0	0.49	1.5	CLEAR	NONE

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:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Jessica Sasser / GES, Inc.	Jessica Sasser	14:27	14:29

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: _____ um
7'	PE		

FIELD DECONTAMINATION: PUMP Y (N) TUBING (Y) N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# Containers	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
OW-16	3	CG	40 ml	HCL	NA	<2	8260 (BTEX/MTBE) 14-day	RFPP	100

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **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)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME	SHE-390	SITE LOCATION:	390 S Powerline Rd, Deerfield Beach
WELL NO:	OW-17	SAMPLE ID	OW-17 DATE: 8/11/11

PURGING DATA

WELL Diameter (Inches):	TUBING DIAMETER (Inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2.00	0.5	2.00 feet to 12.00 feet	5.81	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY

(only fill out if applicable) = (12.00 feet - 5.81 feet) X 0.16 gallons/foot = 0.99 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. =PUMP Vol. + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL Vol.

(only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL:	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOL. PURGED:
6.5'	6.5'	12:31	13:12	5.125 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm)	DO (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
12:39	1.0	1.0	0.125	5.90	7.06	30.2	234.0	0.61	23	Cloudy	NONE
12:42	0.375	1.375	0.125	5.90	7.06	30.2	233.5	0.58	23	cloudy	NONE
12:45	0.375	1.75	0.125	5.90	7.07	30.2	233.2	0.54	23	cloudy	NONE
12:48	0.375	2.125	0.125	5.90	7.08	30.1	232.2	0.50	24	cloudy	NONE
12:51	0.375	2.50	0.125	5.90	7.12	30.1	232.3	0.41	21	cloudy	NONE
12:54	0.375	2.875	0.125	5.90	7.10	29.8	232.8	0.39	23	cloudy	NONE
12:57	0.375	3.25	0.125	5.90	7.11	29.6	229.8	0.52	23	cloudy	NONE
13:00	0.375	3.625	0.125	5.90	7.14	29.6	226.5	0.40	24	cloudy	NONE
13:06	0.75	4.375	0.125	5.90	7.09	29.7	226.4	0.38	24	cloudy	NONE
13:12	0.75	5.125	0.125	5.90	7.12	29.4	225.6	0.36	22	cloudy	NONE

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:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Jessica Sasser / GES, Inc.	Jessica Sasser	13:12	13:14

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ um
6.5'	PE		

FIELD DECONTAMINATION: PUMP Y (N) TUBING (Y) N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# Containers	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
OW-17	3	CG	40 ml	HCL	NA	<2	8260 (BTEX/MTBE) 14-day	RFPP	100

REMARKS:

Turbidity >20 NTUs; purged 5 well volumes, then sampled.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME	SHE-390	SITE LOCATION:	390 S Powerline Rd, Deerfield Beach
WELL NO:	MW-17R	SAMPLE ID	MW-17R
DATE:	8/11/11		

PURGING DATA

WELL Diameter (Inches):	TUBING DIAMETER (Inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2.00	0.5	3.00 feet to 13.00 feet	6.37	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

(only fill out if applicable) = (13.00 feet - 6.37 feet) X 0.16 gallons/foot = 1.06 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. =PUMP Vol. + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL Vol.

(only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL:	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOL. PURGED:
7'	7'	11:20	11:36	2.0 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm)	DO (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:30	1.25	1.25	0.125	6.45	6.69	31.8	858	0.23	3.5	CLEAR	ODOR
11:33	0.375	1.625	0.125	6.45	6.69	31.8	856	0.18	6.3	CLEAR	ODOR
11:36	0.375 ~~0.375~~	2.0	0.125	6.45	6.70	31.8	848	0.17	14	CLEAR	ODOR

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:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Jessica Salter / GES, Inc.	Jessica Salter	11:36	11:40

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) FILTER SIZE: _____ um Filtration Equipment Type:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING (Y) N (replaced)	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
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-17R	3	CG	40 ml	HCL	NA	<2	8260 (BTEX/MTBE) 14-day	RFPP	100
MW-17R	1	AG	40 ml	None	NA	NA	8270 (PAH)	APP	500

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; T = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **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)

DRAFT

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME	SHE-390	SITE LOCATION:	390 S Powerline Rd, Deerfield Beach
WELL NO:	MW-18R	SAMPLE ID MW-18R	DATE: 8/11/11

PURGING DATA

WELL Diameter (Inches):	TUBING DIAMETER (Inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2.00	0.5	3.00 feet to 13.00 feet	6.90	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

(only fill out if applicable) = (13.00 feet - 6.90 feet) X 0.16 gallons/foot = 0.98 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. =PUMP Vol. + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL Vol.

(only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL:	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOL. PURGED:
8'	8'	10:06	10:20	1.75 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm)	DO (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:14	1.0	1.0	0.125	7.08	6.28	31.6	708	0.22	3.5	CLEAR	ODOR
10:17	0.375	1.375	0.125	7.08	6.33	31.4	709	0.24	2.3	CLEAR	ODOR
10:20	0.375	1.75	0.125	7.08	6.33	31.4	711	0.24	2.2	CLEAR	ODOR

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:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Jessica Sasser / GES, Inc.	Jessica Sasser	10:21	10:25

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: _____ um
8'	PE		

FIELD DECONTAMINATION: PUMP Y (N) TUBING (Y) N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
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-18R	3	CG	40 ml	HCL	NA	<2	8260 (BTEX/MTBE) 14-day	RFPP	100
MW-18R	1	AG	40 ml	None	NA	NA	8270 (PAH)	APP	500

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME	SHE-390	SITE LOCATION:	390 S Powerline Rd, Deerfield Beach
WELL NO:	MW-19R	SAMPLE ID MW-19R	DATE: 8/11/11

PURGING DATA

WELL Diameter (Inches):	TUBING DIAMETER (Inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2.00	0.5	3.00 feet to 13.00 feet	6.51	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

(only fill out if applicable) = (13.00 feet - 6.51 feet) X 0.16 gallons/foot = 1.04 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. =PUMP Vol. + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL Vol.

(only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL:	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOL. PURGED:
7.5'	7.5'	10:38	10:59	2.375 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm)	DO (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:48	1.25	1.25	0.125	6.55	6.83	32.7	546	0.28	1.4	CLEAR	NONE
10:51	0.375	1.625	0.125	6.55	6.85	32.0	541	0.26	1.2	CLEAR	NONE
10:54	0.375	2.0	0.125	6.55	6.87	32.0	542	0.25	1.5	CLEAR	NONE
10:57	0.375	2.375	0.125	6.55	6.87	31.8	545	0.23	1.2	CLEAR	NONE

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:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Jessica Sasser / GES, Inc.	Jessica Sasser	10:57	11:01

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ um
7.5'	PE		

FIELD DECONTAMINATION: PUMP Y (N) TUBING (Y) N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
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-19R	3	CG	40 ml	HCL	NA	<2	8260 (BTEX/MTBE) 14-day	RFPP	100
MW-19R	1	AG	40 ml	None	NA	NA	8270 (PAH)	APP	500

REMARKS:

Temperature jumped > ±0.2°C; took 3 consecutive stable readings, then sampled.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **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)

DRAFT

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	SHE-390	SITE LOCATION:	390 S Powerline Rd, Deerfield Beach
WELL NO:	MW-20	SAMPLE ID: MW-20	DATE: 8/11/11

PURGING DATA

WELL Diameter (Inches):	TUBING DIAMETER (Inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2.00	0.5	3.18 feet to 13.18 feet	6.99	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

(only fill out if applicable) = (13.18 feet - 6.99 feet) X 0.16 gallons/foot = 0.99 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. =PUMP Vol. + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL Vol.

(only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL:	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOL. PURGED:
8'	8'	11:53	12:09	1.75 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm)	DO (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
12:01	1.0	1.0	0.125	7.06	6.61	30.6	590	0.23	3.4	CLEAR	ODOR
12:04	0.375	1.375	0.125	7.07	6.61	30.5	589	0.15	2.2	CLEAR	ODOR
12:09	0.375	1.75	0.125	7.07	6.61	30.5	596	0.14	2.5	CLEAR	ODOR

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:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Jessica Sasser / GES, Inc.	Jessica Sasser	12:08	12:12

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ um
8'	PE		

FIELD DECONTAMINATION: PUMP Y (N) TUBING (Y) N (replaced) DUPLICATE: (Y) N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
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-20	3	CG	40 ml	HCL	NA	<2	8260 (BTEX/MTBE) 14-day	RFPP	100
MW-20	1	AG	40 ml	None	NA	NA	8270 (PAH)	APP	500

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **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)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME	SHE-390	SITE LOCATION:	390 S Powerline Rd, Deerfield Beach
WELL NO:	MW-21D	SAMPLE ID	MW-21D	DATE: 8/11/11

PURGING DATA

WELL Diameter (Inches):	TUBING DIAMETER (Inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2.00	0.5	39.70 feet to 44.70 feet	7.37	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY

(only fill out if applicable) = (44.70 feet − 7.37 feet) X 0.16 gallons/foot = ~~5.97 gf~~ gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. =PUMP Vol. + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL Vol.

(only fill out if applicable) = gallons + (0.006 gallons/foot X 40 feet) + 0.25 gallons = 0.49 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL:	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOL. PURGED:
40'	40'	12:35	12:46	1.40 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm)	DO (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
12:40	~~0.0~~ 0.5	~~0.0~~ 0.5	0.15	7.5	7.07	28.7	259.3	0.15	8.94	clear	~~slight odor~~ none
12:43	0.45	0.95	0.15	7.5	7.06	28.6	258.2	0.10	8.33	clear	none
12:46	0.45	1.40	0.15	7.5	7.06	28.6	259.9	0.07	8.91	clear	none
			~~0.15 cf~~								

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:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Caitlin Farnsworth / GES, Inc.		12:50	12:55

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) FILTER SIZE: _____ um Filtration Equipment Type:
40.0	PE	

FIELD DECONTAMINATION: PUMP Y (N) TUBING (Y) N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
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-21D	3	CG	40 ml	HCL	NA	<2	8260B (BTEX/MTBE/Oxyg.) 1	RFPP	100
MW-21D	1	AG	40 ml	None	NA	NA	8270 (PAH)	APP	500

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME	SHE-390	SITE LOCATION:	390 S Powerline Rd, Deerfield Beach
WELL NO:	MW-22D-R	SAMPLE ID MW-22D-R	DATE: 8/11/11

PURGING DATA

WELL Diameter (Inches):	TUBING DIAMETER (Inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2.00	0.5	30.00 feet to 35.00 feet	6.64	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

(only fill out if applicable) = (35.00 feet - feet) X 0.16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. =PUMP Vol. + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL Vol.

(only fill out if applicable) = gallons + (0.006 gallons/foot X 33.0 feet) + 0.25 gallons = 0.45 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL:	PURGING INITIATED AT: 2:32	PURGING ENDED AT: 2:46	TOTAL VOL. PURGED: 1.40 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm)	DO (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
2:40	0.5	0.5	0.15	6.64	6.65	28.9	614	0.22	6.94	clear	none
2:43	0.45	0.95	0.15	6.64	6.64	28.8	619	0.15	4.07	clear	none
2:46	0.45	1.40	0.15	6.64	6.64	28.8	618	0.14	3.10	clear	none

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:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Caitlin Farnsworth/GES, Inc.		2:50	2:55

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: _____ um
33.0	PE		

FIELD DECONTAMINATION: PUMP Y (N) TUBING (Y) N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
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-22D-R	3	CG	40 ml	HCL	NA	<2	8260 (BTEX/MTBE) 14-day	RFPP	100
MW-22D-R	1	AG	40 ml	None	NA	NA	8270 (PAH)	APP	500

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **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)

DRAFT

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	SHE-390	SITE LOCATION:	390 S Powerline Rd, Deerfield Beach
WELL NO:	MW-23	SAMPLE ID: MW-23	DATE: 8/17/11

PURGING DATA

WELL Diameter (Inches):	TUBING DIAMETER (Inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2.00	0.5	2.00 feet to 12.00 feet	6.23	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

(only fill out if applicable) = (12.00 feet - 6.23 feet) X 0.16 gallons/foot = 0.92 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. =PUMP Vol. + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL Vol.

(only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL:	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOL. PURGED:
7.5'	7.5'	14:40	14:54	1.75 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm)	DO (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
14:48	1.0	1.0	0.125	6.31	6.91	29.4	470	0.57	1.9	CLEAR	NONE
14:51	0.375	1.375	0.125	6.31	6.92	29.4	459	0.50	1.9	CLEAR	NONE
14:54	0.375	1.75	0.125	6.31	6.92	29.3	462	0.48	1.4	CLEAR	NONE

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:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Jessica Sasser / GES, Inc.	Jessica Sasser	14:54	14:56

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N)	FILTER SIZE: _____ um
7.5'	PE	Filtration Equipment Type:	

FIELD DECONTAMINATION: PUMP Y (N) TUBING (Y) N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# Containers	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-23	3	CG	40 ml	HCL	NA	<2	8260 (BTEX/MTBE) 14-day	RFPP	100

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **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)

DRAFT

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME	SHE-390	SITE LOCATION:	390 S Powerline Rd, Deerfield Beach
WELL NO:	MW-26I	SAMPLE ID	MW-26I	DATE: 5/11/11

PURGING DATA

WELL Diameter (Inches):	TUBING DIAMETER (Inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2.00	0.5	40.00 feet to 45.00 feet	6.05	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

(only fill out if applicable) = (45.00 feet – feet) X 0.16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. =PUMP Vol. + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL Vol.

(only fill out if applicable) = gallons + (0.006 gallons/foot X 45.0 feet) + 0.25 gallons = 0.52 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL:	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOL. PURGED:
45'	45'	3:45	3:56	1.9 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm)	DO (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
3:50	1.0	1.0	0.15	6.22	6.78	27.6	305.5	0.09	10.07	clear	none
3:53	0.45	1.45	0.15	6.22	6.80	27.6	318.1	0.80	10.07	clear	none
3:56	0.45	1.9	0.15	6.22	6.81	27.7	309.5	0.60	3.19	clear	none

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:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Cantim Farnsworth / GES, Inc.		4:00	4:10

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: _____ um
45.0	PE		

FIELD DECONTAMINATION: PUMP Y (N) TUBING (Y) N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# Containers	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-26I	3	CG	40 ml	HCL	NA	<2	8260B (BTEX/MTBE/Oxyg.) 1	RFPP	100

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME	SHE-390	SITE LOCATION:	390 S Powerline Rd, Deerfield Beach
WELL NO:	MW-29D	SAMPLE ID	MW-29D
		DATE:	8/11/25

PURGING DATA

WELL Diameter (Inches):	TUBING DIAMETER (Inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2.00	0.5	55.00 feet to 60.00 feet	7.44	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

(only fill out if applicable) = (60.00 feet – feet) X 0.16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. =PUMP Vol. + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL Vol.

(only fill out if applicable) = gallons + (0.006 gallons/foot X 60 feet) + 0.25 gallons = 0.61 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL:	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOL. PURGED:
60'	60'	~~1:10~~ 1:25	1:41	1.90 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm)	DO (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1:35	1.0	1.0	0.15	8.41	7.23	27.8	409.3	0.12	17.6	clear	none
1:38	0.45	1.45	0.15	8.41	7.20	28.0	405.2	0.09	17.1	clear	none
1:41	0.45	1.90	0.15	8.41	7.11	28.0	401.5	0.09	19.1	clear	none

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:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Caitlin Farnsworth / GES, Inc.		1:45	1:50

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ um
60.0	PE		

FIELD DECONTAMINATION: PUMP Y (N) TUBING (Y) N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
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-29D	3	CG	40 ml	HCL	NA	<2	8260B (BTEX/MTBE/Oxyg.) 1	RFPP	100

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; T = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME	SHE-390	SITE LOCATION:	390 S Powerline Rd, Deerfield Beach
WELL NO:	MW-31D	SAMPLE ID	MW-31D
		DATE:	8/11/11

PURGING DATA

WELL Diameter (Inches):	TUBING DIAMETER (Inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2.00	0.5	55.00 feet to 60.00 feet	5.68	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

(only fill out if applicable) = (60.00 feet - ~~SDF~~ feet) X 0.16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. =PUMP Vol. + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL Vol.

(only fill out if applicable) = gallons + (0.006 gallons/foot X 60.0 feet) + 0.25 gallons = 0.61 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL:	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOL. PURGED:
		3:15	3:26	1.90 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm)	DO (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
3:20	1.0	1.0	0.15	6.56	7.83	27.9	150.8	0.15	12.0	Clear	none
3:23	0.45	1.45	0.15	6.56	7.82	28.0	151.1	0.13	10.39	Clear	none
3:26	0.45	1.90	0.15	6.56	7.79	28.1	153.2	0.16	9.03	Clear	none

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:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Caitlin Farnsworth / GES, Inc.		3:30	3:35

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) FILTER SIZE: _____ um Filtration Equipment Type:
60.0	PE	

FIELD DECONTAMINATION: PUMP Y (N) TUBING (Y) N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
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-31D	3	CG	40 ml	HCL	NA	<2	8260 (BTEX/MTBE) 14-day	RFPP	100

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME	SHE-390	SITE LOCATION:	390 S Powerline Rd, Deerfield Beach	
WELL NO:	MW-34I	SAMPLE ID	MW-34I	DATE: 8/11/11

PURGING DATA

WELL Diameter (Inches):	TUBING DIAMETER (Inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2.00	0.5	40.00 feet to 45.00 feet	5.88	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

(only fill out if applicable) = (45.00 feet - ~~5.88~~ feet) X 0.16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. =PUMP Vol. + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL Vol.

(only fill out if applicable) = gallons + (0.006 gallons/foot X 45' feet) + 0.25 gallons = 0.97 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL:	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOL. PURGED:
42'	42'	15:47	16:01	1.75 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm)	DO (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
15:55	1.0	1.0	0.125	16.40	6.79	28.8	418.3	0.21	1.5	CLEAR	NONE
15:58	0.375	1.375	0.125	6.38	6.79	28.7	415.4	0.24	1.2	CLEAR	NONE
16:01	0.375	1.75	0.125	6.38	6.81	28.7	414.7	0.26	1.00	CLEAR	NONE

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"** = 5.86

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:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Jessica Sasser / GES, Inc.	Jessica Sasser	16:01	16:03

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N)	FILTER SIZE: ____ µm
42'	PE	Filtration Equipment Type:	

FIELD DECONTAMINATION: PUMP Y (N) TUBING (Y) N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
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-34I	3	CG	40 ml	HCL	NA	<2	8260 (BTEX/MTBE) 14-day	RFPP	100

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **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)

DRAFT

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME	FCE-1801	SITE LOCATION:	390 S Powerline Rd, Deerfield Beach
WELL NO:	MW-39	SAMPLE ID MW-39	DATE: 8-18-11

PURGING DATA

WELL Diameter (Inches):	TUBING DIAMETER (Inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2.00	0.5	3.00 feet to 13.00 feet	7.03	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

(only fill out if applicable) = (13.00 feet - 7.03 feet) X 0.16 gallons/foot = ~~14.62~~ 0.96 cf gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. =PUMP Vol. + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL Vol.

(only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL:	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOL. PURGED:
10'	10'	9:35	9:46	1.45 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm)	DO (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
9:40	~~15.0~~ cf 1.0	1.0	0.15	7.03	6.39	29.9	408	1.03	6.15	clear	Strong odor
9:43	0.45	1.45	0.15	7.03	6.38	29.9	407.8	1.01	6.71	clear	slight odor
9:46	0.45	1.45	0.15	7.03	6.39	29.9	407.9	0.63	6.69	clear	slight odor

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:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Caitlin Farnsworth / GES, Inc.		9:52	9:58

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ um
10'	PE		

FIELD DECONTAMINATION: PUMP Y (N) TUBING (Y) N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# Containers	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-39	3	CG	40 ml	HCL	NA	<2	8260B (BTEX/MTBE/Oxyg.) 1	RFPP	100

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **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)

DRAFT

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	FCE-1801	SITE LOCATION:	390 S Powerline Rd, Deerfield Beach
WELL NO:	MW-40	SAMPLE ID: MW-40	DATE: 8-18-11

PURGING DATA

WELL Diameter (Inches):	TUBING DIAMETER (Inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2.00	0.5	3.00 feet to 13.00 feet	6.81	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

(only fill out if applicable) = (13.00 feet - 6.81 feet) X 0.16 gallons/foot = 0.99 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. =PUMP Vol. + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL Vol.

(only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL:	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOL. PURGED:
10'	10'	10:13	11:07	5.05 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm)	DO (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:20	1.0	1.0	0.15	7.01	6.69	31.3	370.5	0.10	170	cloudy	slight odor
10:23	0.45	1.45	0.15	7.01	6.69	31.3	370.9	0.23	241	cloudy	slight odor
10:26	0.45	1.90	0.15	7.01	6.68	31.2	376.6	0.23	222	cloudy	slight
10:29	0.45	2.35	0.15	7.01	6.69	31.2	375.9	0.55	191	cloudy	slight
10:32	0.45	2.8	0.15	7.01	6.72	31.2	371.8	1.20	181	cloudy	slight
10:35	0.45	3.25	0.15	7.01	6.72	31.2	371.5	0.89	139	cloudy	slight
10:38	0.45	3.7	0.15	7.01	6.72	31.2	370.8	0.83	88.1	cloudy	slight
11:01	0.45	4.15	0.15	7.01	6.72	31.2	370.8	0.78	62.1	cloudy	slight
11:09	0.45	4.6	0.15	7.01	6.72	31.2	371.1	0.77	47.6	cloudy	slight
11:07	0.45	5.05	0.15	7.01	6.72	31.2	370.9	0.76	44.5	cloudy	slight

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:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Caitlin Farnsworth / GES, Inc.		11:10	11:15

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) FILTER SIZE: _____ um Filtration Equipment Type:
10'		

FIELD DECONTAMINATION: PUMP Y (N) TUBING (Y) N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
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-40	3	CG	40 ml	HCL	NA	<2	8260B (BTEX/MTBE/Oxyg.) 1	RFPP	100

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME	FCE-1801	SITE LOCATION:	390 S Powerline Rd, Deerfield Beach
WELL NO:	MW-41	SAMPLE ID MW-41	DATE: 8-18-11

PURGING DATA

WELL Diameter (Inches):	TUBING DIAMETER (Inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2.00	0.5	3.00 feet to 13.00 feet	5.37	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

(only fill out if applicable) = (13.00 feet - 5.37 feet) X 0.16 gallons/foot = 1.22 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. =PUMP Vol. + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL Vol.

(only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL:	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOL. PURGED:
10'	10'	11:26	~~11:31~~ CF 11:58 ~~11:34~~	gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm)	DO (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:25	1.5	1.50	0.15	5.37	6.96	32.1	266.4	0.03	185	cloudy	none
11:28	0.45	1.95	0.15	5.37	6.97	32.1	266.6	0.03	39.7	clear	none
11:31	0.45	2.4	0.15	5.40	6.97	32.1	266.7	0.02	26.3	clear	none
11:34	0.45	2.85	0.15	5.40	6.97	32.1	267.0	0.03	23.7	clear	none
11:37	0.45	3.30	0.15	6.00	6.98	32.0	266.9	0.03	21.0	clear	none
11:40	0.45	3.75	0.15	6.00	6.97	32.0	267.0	0.03	17.7	clear	none
11:43	0.45	4.20	0.15	6.00	6.97	32.0	267.2	0.03	18.8	clear	none
11:46	0.45	4.65	0.15	6.22	6.98	32.0	267.3	0.03	18.0	clear	none
11:49	0.45	5.1	0.15	6.22	6.97	32.0	267.4	0.03	15.9	clear	none
11:52	0.45	5.55	0.15	6.32	6.97	32.0	267.3	0.03	16.6	clear	none

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:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Caitlin Farnsworth / GES, Inc.		12:00 ~~11:55~~ CF	~~12:05~~ CF 12:05

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) FILTER SIZE: _____ um
10'	PE	Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y (N) TUBING (Y) N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
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-41	3	CG	40 ml	HCL	NA	<2	8260B (BTEX/MTBE/Oxyg.) 1	RFPP	100

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME	FCE-1801	SITE LOCATION:	390 S Powerline Rd, Deerfield Beach
WELL NO:	MW-41	SAMPLE ID MW-41	DATE: 8-18-11

PURGING DATA

WELL Diameter (Inches):	TUBING DIAMETER (Inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2.00	0.5	3.00 feet to 13.00 feet	5.37	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

(only fill out if applicable) = (13.00 feet - 5.37 feet) X 0.16 gallons/foot = 1.22 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. =PUMP Vol. + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL Vol.

(only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL:	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOL. PURGED:
10'	10'	11:20	11:58	6.45 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm)	DO (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:55	0.45	~~0.45~~ 6.0	0.15	6.32	6.97	32.0	267.1	0.03	16.0	clear	none
11:58	0.45	6.45	0.15	6.32	6.97	32.0	266.9	0.03	13.2	clear	none

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./FL): **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:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Caitlin Farnsworth / GES, Inc.		12:00	12:05

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: _____ um
10'	PE		

FIELD DECONTAMINATION: PUMP Y (N) TUBING (Y) N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
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-41	3	CG	40 ml	HCL	NA	<2	8260B (BTEX/MTBE/Oxyg.) 1	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; 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)

DRAFT

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME	SHE-390	SITE LOCATION:	390 S Powerline Rd, Deerfield Beach
WELL NO:	OW-15	SAMPLE ID OW-15	DATE: 9/14/11

PURGING DATA

WELL Diameter (Inches):	TUBING DIAMETER (Inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2.00	0.5	5.00 feet to 15.00 feet	4.45	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

(only fill out if applicable) = (15.00 feet - 4.45 feet) X 0.16 gallons/foot = 1.69 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. =PUMP Vol. + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL Vol.

(only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL:	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOL. PURGED:
5.5'	5.5'	12:50	13:06	4.0 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm)	DO (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
12:59	1.75	1.75	0.25	4.34	7.33	29.6	227.5	1.39	CLEAR	2.95	NONE
13:00	0.75	2.50	0.25	4.34	7.34	29.5	225.1	1.41	CLEAR	2.96	NONE
13:03	0.75	3.25	0.25	4.34	7.31	29.3	222.2	1.33	CLEAR	2.63	NONE
13:06	0.75	4.0	0.25	4.34	7.30	29.3	220.9	1.18	CLEAR	3.33	NONE

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:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Jessica Sasser / GES, Inc.		13:07	13:11

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ um
5.5'	PE		

FIELD DECONTAMINATION: PUMP Y (N) TUBING (Y) N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
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)
OW-15	2	AG	1 L	None	NA	NA	PAH (8270C)	APP	500

REMARKS:

Temperature > ± 0.2°C; took 3 consecutive stabilized readings, then sampled

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **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)

DRAFT

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME	SHE-390	SITE LOCATION:	390 S Powerline Rd, Deerfield Beach
WELL NO:	OW-16	SAMPLE ID	OW-16 DATE: 9/14/11

PURGING DATA

WELL Diameter (Inches):	TUBING DIAMETER (Inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2.00	0.5	4.91 feet to 14.91 feet	4.52	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

(only fill out if applicable) = (14.91 feet - 4.52 feet) X 0.16 gallons/foot = 1.66 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. =PUMP Vol. + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL Vol.

(only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL:	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOL. PURGED:
5.5'	5.5'	10:11	10:24	3.25 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm)	DO (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:18	1.75	1.75	0.25	4.56	6.93	29.2	405.4	1.05	CLEAR	4.1	NONE
10:21	0.75	2.50	0.25	4.58	6.94	29.2	401.7	0.93	CLEAR	2.9	NONE
10:24	0.75	3.25	0.25	4.58	6.95	29.1	402.3	0.89	CLEAR	2.5	NONE

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:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Jessica Sasser / GES, Inc.	Jessica Sasser	10:25	10:29

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) FILTER SIZE: ____ um Filtration Equipment Type:
5.5'	PE	

FIELD DECONTAMINATION: PUMP Y (N) TUBING (Y) N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
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)
OW-16	2	AG	1 L	None	NA	NA	PAH (8270C)	APP	500

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **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)

DRAFT

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME	SHE-390	SITE LOCATION:	390 S Powerline Rd, Deerfield Beach
WELL NO:	MW-22D-R	SAMPLE ID	MW-22D-R
		DATE:	9/14/11

PURGING DATA

WELL Diameter (Inches):	TUBING DIAMETER (Inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2.00	0.5	30.00 feet to 35.00 feet	5.10	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

(only fill out if applicable) = (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. =PUMP Vol. + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL Vol.

(only fill out if applicable) = gallons + (0.006 gallons/foot X 35 feet) + 0.25 gallons = 0.46 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL:	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOL. PURGED:
32'	32'	9:42	9:52	2.50 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm)	DO (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
9:46	1.0	1.0	0.25	5.11	6.55	28.8	475	0.24	CLEAR	LO	ODOR
9:49	0.75	1.75	0.25	5.11	6.52	28.8	470	0.19	CLEAR	S-S	ODOR
9:52	0.75	2.50	0.25	5.11	6.52	28.8	468	0.17	CLEAR	S-I	ODOR

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:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Jessica Sasser / GES, Inc.	Jessica Sasser	9:53	9:55

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N)	FILTER SIZE: _____ um
32'	PE	Filtration Equipment Type:	

FIELD DECONTAMINATION: PUMP Y (N) TUBING (Y) N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# Containers	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-22D-R	3	CG	40 mL	~~None~~ HCL	NA	<2 NaOH	~~PAH (8270C)~~ BTEX MTBE (8260B)	APP RFPP	100

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **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)

DRAFT

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME	SHE-390	SITE LOCATION:	390 S Powerline Rd, Deerfield Beach
WELL NO:	MW-24	SAMPLE ID	MW-24 DATE: 9/14/11

PURGING DATA

WELL Diameter (Inches):	TUBING DIAMETER (Inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2.00	0.5	2.00 feet to 12.00 feet	4.62	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

(only fill out if applicable) = (12.00 feet - 4.62 feet) X 0.16 gallons/foot = 1.18 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. =PUMP Vol. + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL Vol.

(only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL:	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOL. PURGED:
6'	6'	10:39	10:50	2.75 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm)	DO (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:44	1.25	1.25	0.25	4.70	7.02	29.3	369.8	3.70	2.55	CLEAR	NONE
10:47	0.75	2.0	0.25	4.69	7.01	29.2	368.1	3.34	2.52	CLEAR	NONE
10:50	0.75	2.75	0.25	4.69	7.00	29.2	368.5	3.56	2.09	CLEAR	NONE
~~10:53~~	~~0.75~~	~~3.50~~	~~0.25~~								~~NONE~~

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:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Jessica Sasser / GES, Inc.	Jessica Sasser	10:51	10:59

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: _____ um
6'	PE		

FIELD DECONTAMINATION: PUMP Y (N) TUBING (Y) N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
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-24	2	AG	1 L	None	NA	NA	PAH (8270C)	APP	500
MW-24	3	CG	40mL	HCL	NA	<2	BTEXMTBE (8260 B)	RFPP	100

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **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)

APPENDIX F

Groundwater Laboratory Analytical Reports and Chain of Custody Documentation

DRAFT

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Road
Nashville, TN 37204
Tel: 800-765-0980

TestAmerica Job ID: NUH1989
Client Project/Site: SAP 100700
Client Project Description: 390 S Powerline Rd, Deerfield Beach

For:
GES (Fort Lauderdale) / SHELL (13652)
6500 N.W. 12th Avenue, Suite 109
Ft. Lauderdale, FL 33309

Attn: Michael Berzinsky

Authorized for release by:
08/25/2011 12:16:56 PM

Leah R. Klingensmith
Senior Project Management
leah.klingensmith@testamericainc.com

DRAFT

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

Results relate only to the items tested and the sample(s) as received by the laboratory. 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.

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DRAFT

Sample Summary

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH1989

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NUH1989-01	OW-5	Ground Water	08/11/11 10:30	08/13/11 08:00
NUH1989-02	OW-8	Ground Water	08/11/11 11:35	08/13/11 08:00
NUH1989-03	OW-10	Ground Water	08/11/11 12:30	08/13/11 08:00
NUH1989-04	OW-12	Ground Water	08/11/11 15:35	08/13/11 08:00
NUH1989-05	OW-15	Ground Water	08/11/11 13:56	08/13/11 08:00
NUH1989-06	OW-16	Ground Water	08/11/11 14:29	08/13/11 08:00
NUH1989-07	OW-17	Ground Water	08/11/11 13:14	08/13/11 08:00
NUH1989-08	MW-17R	Ground Water	08/11/11 11:40	08/13/11 08:00
NUH1989-09	MW-18R	Ground Water	08/11/11 10:25	08/13/11 08:00
NUH1989-10	MW-19R	Ground Water	08/11/11 11:01	08/13/11 08:00
NUH1989-11	MW-20	Ground Water	08/11/11 12:12	08/13/11 08:00
NUH1989-12	MW-21D	Ground Water	08/11/11 12:55	08/13/11 08:00
NUH1989-13	MW-22D-R	Ground Water	08/11/11 14:55	08/13/11 08:00
NUH1989-14	MW-23	Ground Water	08/11/11 14:56	08/13/11 08:00
NUH1989-15	MW-26I	Ground Water	08/11/11 16:10	08/13/11 08:00
NUH1989-16	MW-29D	Ground Water	08/11/11 13:50	08/13/11 08:00
NUH1989-17	MW-31D	Ground Water	08/11/11 14:35	08/13/11 08:00
NUH1989-18	MW-34I	Ground Water	08/11/11 16:03	08/13/11 08:00

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652) TestAmerica Job ID: NUH1989
Project/Site: SAP 100700

Qualifiers

GCMS Volatiles

Qualifier	Qualifier Description
U	The compound was analyzed for but not detected
I	The reported value is between the laboratory method detection limit and method reporting limit.
V	The analyte was detected in both the sample and the associated method blank.

GCMS Semivolatiles

Qualifier	Qualifier Description
U	The compound was analyzed for but not detected
MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike.
I	The reported value is between the laboratory method detection limit and method reporting limit.

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH1989

Client Sample ID: OW-5
Date Collected: 08/11/11 10:30
Date Received: 08/13/11 08:00

Lab Sample ID: NUH1989-01
Matrix: Ground Water

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.270	U	1.00	0.270	ug/L		08/17/11 08:15	08/17/11 18:10	1.00
Ethylbenzene	<0.320	U	1.00	0.320	ug/L		08/17/11 08:15	08/17/11 18:10	1.00
Methyl tert-Butyl Ether	<0.320	U	1.00	0.320	ug/L		08/17/11 08:15	08/17/11 18:10	1.00
Toluene	<0.330	U	1.00	0.330	ug/L		08/17/11 08:15	08/17/11 18:10	1.00
Xylenes, total	<0.870	U	3.00	0.870	ug/L		08/17/11 08:15	08/17/11 18:10	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*80*		*63 - 140*	*08/17/11 08:15*	*08/17/11 18:10*	*1.00*
Dibromofluoromethane	*94*		*73 - 131*	*08/17/11 08:15*	*08/17/11 18:10*	*1.00*
Toluene-d8	*105*		*80 - 120*	*08/17/11 08:15*	*08/17/11 18:10*	*1.00*
4-Bromofluorobenzene	*96*		*79 - 125*	*08/17/11 08:15*	*08/17/11 18:10*	*1.00*

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH1989

Client Sample ID: OW-8
Date Collected: 08/11/11 11:35
Date Received: 08/13/11 08:00

Lab Sample ID: NUH1989-02
Matrix: Ground Water

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.270	U	1.00	0.270	ug/L		08/17/11 08:15	08/17/11 18:37	1.00
Ethylbenzene	<0.320	U	1.00	0.320	ug/L		08/17/11 08:15	08/17/11 18:37	1.00
Methyl tert-Butyl Ether	<0.320	U	1.00	0.320	ug/L		08/17/11 08:15	08/17/11 18:37	1.00
Toluene	<0.330	U	1.00	0.330	ug/L		08/17/11 08:15	08/17/11 18:37	1.00
Xylenes, total	<0.870	U	3.00	0.870	ug/L		08/17/11 08:15	08/17/11 18:37	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*77*		*63 - 140*	*08/17/11 08:15*	*08/17/11 18:37*	*1.00*
Dibromofluoromethane	*95*		*73 - 131*	*08/17/11 08:15*	*08/17/11 18:37*	*1.00*
Toluene-d8	*106*		*80 - 120*	*08/17/11 08:15*	*08/17/11 18:37*	*1.00*
4-Bromofluorobenzene	*95*		*79 - 125*	*08/17/11 08:15*	*08/17/11 18:37*	*1.00*

Method: SW846 8270D SIM - Polyaromatic Hydrocarbons by EPA 8270D SIM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0267	U	0.0952	0.0267	ug/L		08/15/11 08:05	08/20/11 20:16	1.00
Acenaphthylene	<0.0238	U	0.0952	0.0238	ug/L		08/15/11 08:05	08/20/11 20:16	1.00
Anthracene	<0.0295	U	0.0952	0.0295	ug/L		08/15/11 08:05	08/20/11 20:16	1.00
Benzo (a) anthracene	<0.0171	U	0.0952	0.0171	ug/L		08/15/11 08:05	08/20/11 20:16	1.00
Benzo (a) pyrene	<0.0305	U	0.0952	0.0305	ug/L		08/15/11 08:05	08/20/11 20:16	1.00
Benzo (b) fluoranthene	<0.0248	U	0.0952	0.0248	ug/L		08/15/11 08:05	08/20/11 20:16	1.00
Benzo (g,h,i) perylene	<0.0229	U	0.0952	0.0229	ug/L		08/15/11 08:05	08/20/11 20:16	1.00
Benzo (k) fluoranthene	<0.0381	U	0.0952	0.0381	ug/L		08/15/11 08:05	08/20/11 20:16	1.00
Chrysene	<0.0333	U	0.0952	0.0333	ug/L		08/15/11 08:05	08/20/11 20:16	1.00
Dibenz (a,h) anthracene	<0.0229	U	0.0952	0.0229	ug/L		08/15/11 08:05	08/20/11 20:16	1.00
Fluoranthene	<0.0324	U	0.0952	0.0324	ug/L		08/15/11 08:05	08/20/11 20:16	1.00
Fluorene	<0.0238	U	0.0952	0.0238	ug/L		08/15/11 08:05	08/20/11 20:16	1.00
Indeno (1,2,3-cd) pyrene	<0.0267	U	0.0952	0.0267	ug/L		08/15/11 08:05	08/20/11 20:16	1.00
1-Methylnaphthalene	<0.0210	U	0.0952	0.0210	ug/L		08/15/11 08:05	08/20/11 20:16	1.00
2-Methylnaphthalene	<0.0324	U	0.0952	0.0324	ug/L		08/15/11 08:05	08/20/11 20:16	1.00
Naphthalene	<0.0238	U	0.0952	0.0238	ug/L		08/15/11 08:05	08/20/11 20:16	1.00
Phenanthrene	<0.0600	U	0.0952	0.0600	ug/L		08/15/11 08:05	08/20/11 20:16	1.00
Pyrene	<0.0238	U	0.0952	0.0238	ug/L		08/15/11 08:05	08/20/11 20:16	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*83*		*27 - 120*	*08/15/11 08:05*	*08/20/11 20:16*	*1.00*
2-Fluorobiphenyl	*87*		*29 - 120*	*08/15/11 08:05*	*08/20/11 20:16*	*1.00*
Terphenyl-d14	*96*		*13 - 120*	*08/15/11 08:05*	*08/20/11 20:16*	*1.00*

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH1989

Client Sample ID: OW-10
Date Collected: 08/11/11 12:30
Date Received: 08/13/11 08:00

Lab Sample ID: NUH1989-03
Matrix: Ground Water

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-Amyl Methyl Ether	<0.220	U	1.00	0.220	ug/L		08/17/11 08:15	08/17/11 19:04	1.00
Benzene	**9.35**		1.00	0.270	ug/L		08/17/11 08:15	08/17/11 19:04	1.00
Ethylbenzene	**78.5**		1.00	0.320	ug/L		08/17/11 08:15	08/17/11 19:04	1.00
Ethyl tert-Butyl Ether	**0.450**	**I**	1.00	0.250	ug/L		08/17/11 08:15	08/17/11 19:04	1.00
Toluene	**1.87**		1.00	0.330	ug/L		08/17/11 08:15	08/17/11 19:04	1.00
Diisopropyl Ether	<0.370	U	1.00	0.370	ug/L		08/17/11 08:15	08/17/11 19:04	1.00
Methyl tert-Butyl Ether	<0.320	U	1.00	0.320	ug/L		08/17/11 08:15	08/17/11 19:04	1.00
Tertiary Butyl Alcohol	**45.5**		20.0	2.00	ug/L		08/17/11 08:15	08/17/11 19:04	1.00
Xylenes, total	**182**		3.00	0.870	ug/L		08/17/11 08:15	08/17/11 19:04	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*82*		*63 - 140*	*08/17/11 08:15*	*08/17/11 19:04*	*1.00*
Dibromofluoromethane	*95*		*73 - 131*	*08/17/11 08:15*	*08/17/11 19:04*	*1.00*
Toluene-d8	*106*		*80 - 120*	*08/17/11 08:15*	*08/17/11 19:04*	*1.00*
4-Bromofluorobenzene	*99*		*79 - 125*	*08/17/11 08:15*	*08/17/11 19:04*	*1.00*

Method: SW846 8270D SIM - Polyaromatic Hydrocarbons by EPA 8270D SIM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.324**		0.0952	0.0267	ug/L		08/15/11 08:05	08/20/11 20:37	1.00
Acenaphthylene	**0.0857**	**I**	0.0952	0.0238	ug/L		08/15/11 08:05	08/20/11 20:37	1.00
Anthracene	<0.0295	U	0.0952	0.0295	ug/L		08/15/11 08:05	08/20/11 20:37	1.00
Benzo (a) anthracene	<0.0171	U	0.0952	0.0171	ug/L		08/15/11 08:05	08/20/11 20:37	1.00
Benzo (a) pyrene	<0.0305	U	0.0952	0.0305	ug/L		08/15/11 08:05	08/20/11 20:37	1.00
Benzo (b) fluoranthene	<0.0248	U	0.0952	0.0248	ug/L		08/15/11 08:05	08/20/11 20:37	1.00
Benzo (g,h,i) perylene	<0.0229	U	0.0952	0.0229	ug/L		08/15/11 08:05	08/20/11 20:37	1.00
Benzo (k) fluoranthene	<0.0381	U	0.0952	0.0381	ug/L		08/15/11 08:05	08/20/11 20:37	1.00
Chrysene	<0.0333	U	0.0952	0.0333	ug/L		08/15/11 08:05	08/20/11 20:37	1.00
Dibenz (a,h) anthracene	<0.0229	U	0.0952	0.0229	ug/L		08/15/11 08:05	08/20/11 20:37	1.00
Fluoranthene	<0.0324	U	0.0952	0.0324	ug/L		08/15/11 08:05	08/20/11 20:37	1.00
Fluorene	**0.190**		0.0952	0.0238	ug/L		08/15/11 08:05	08/20/11 20:37	1.00
Indeno (1,2,3-cd) pyrene	<0.0267	U	0.0952	0.0267	ug/L		08/15/11 08:05	08/20/11 20:37	1.00
Phenanthrene	**0.276**		0.0952	0.0600	ug/L		08/15/11 08:05	08/20/11 20:37	1.00
Pyrene	**0.0762**	**I**	0.0952	0.0238	ug/L		08/15/11 08:05	08/20/11 20:37	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*90*		*27 - 120*	*08/15/11 08:05*	*08/20/11 20:37*	*1.00*
2-Fluorobiphenyl	*46*		*29 - 120*	*08/15/11 08:05*	*08/20/11 20:37*	*1.00*
Terphenyl-d14	*40*		*13 - 120*	*08/15/11 08:05*	*08/20/11 20:37*	*1.00*

Method: SW846 8270D SIM - Polyaromatic Hydrocarbons by EPA 8270D SIM - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**70.5**		4.76	1.05	ug/L		08/15/11 08:05	08/21/11 16:25	50.0
2-Methylnaphthalene	**104**		4.76	1.62	ug/L		08/15/11 08:05	08/21/11 16:25	50.0
Naphthalene	**164**		4.76	1.19	ug/L		08/15/11 08:05	08/21/11 16:25	50.0

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH1989

Client Sample ID: OW-12
Date Collected: 08/11/11 15:35
Date Received: 08/13/11 08:00

Lab Sample ID: NUH1989-04
Matrix: Ground Water

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-Amyl Methyl Ether	<0.220	U	1.00	0.220	ug/L		08/17/11 20:52	08/18/11 00:01	1.00
Benzene	**33.3**		1.00	0.270	ug/L		08/17/11 20:52	08/18/11 00:01	1.00
Ethylbenzene	**9.46**		1.00	0.320	ug/L		08/17/11 20:52	08/18/11 00:01	1.00
Ethyl tert-Butyl Ether	**0.410**	**I**	1.00	0.250	ug/L		08/17/11 20:52	08/18/11 00:01	1.00
Toluene	**1.46**		1.00	0.330	ug/L		08/17/11 20:52	08/18/11 00:01	1.00
Diisopropyl Ether	<0.370	U	1.00	0.370	ug/L		08/17/11 20:52	08/18/11 00:01	1.00
Methyl tert-Butyl Ether	**0.830**	**I**	1.00	0.320	ug/L		08/17/11 20:52	08/18/11 00:01	1.00
Tertiary Butyl Alcohol	**27.0**		20.0	2.00	ug/L		08/17/11 20:52	08/18/11 00:01	1.00
Xylenes, total	**17.4**		3.00	0.870	ug/L		08/17/11 20:52	08/18/11 00:01	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*88*		*63 - 140*	*08/17/11 20:52*	*08/18/11 00:01*	*1.00*
Dibromofluoromethane	*91*		*73 - 131*	*08/17/11 20:52*	*08/18/11 00:01*	*1.00*
Toluene-d8	*115*		*80 - 120*	*08/17/11 20:52*	*08/18/11 00:01*	*1.00*
4-Bromofluorobenzene	*92*		*79 - 125*	*08/17/11 20:52*	*08/18/11 00:01*	*1.00*

Method: SW846 8270D SIM - Polyaromatic Hydrocarbons by EPA 8270D SIM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.311**		0.0971	0.0272	ug/L		08/15/11 08:05	08/20/11 20:57	1.00
Acenaphthylene	**0.0583**	**I**	0.0971	0.0243	ug/L		08/15/11 08:05	08/20/11 20:57	1.00
Anthracene	<0.0301	U	0.0971	0.0301	ug/L		08/15/11 08:05	08/20/11 20:57	1.00
Benzo (a) anthracene	<0.0175	U	0.0971	0.0175	ug/L		08/15/11 08:05	08/20/11 20:57	1.00
Benzo (a) pyrene	<0.0311	U	0.0971	0.0311	ug/L		08/15/11 08:05	08/20/11 20:57	1.00
Benzo (b) fluoranthene	<0.0252	U	0.0971	0.0252	ug/L		08/15/11 08:05	08/20/11 20:57	1.00
Benzo (g,h,i) perylene	<0.0233	U	0.0971	0.0233	ug/L		08/15/11 08:05	08/20/11 20:57	1.00
Benzo (k) fluoranthene	<0.0388	U	0.0971	0.0388	ug/L		08/15/11 08:05	08/20/11 20:57	1.00
Chrysene	<0.0340	U	0.0971	0.0340	ug/L		08/15/11 08:05	08/20/11 20:57	1.00
Dibenz (a,h) anthracene	<0.0233	U	0.0971	0.0233	ug/L		08/15/11 08:05	08/20/11 20:57	1.00
Fluoranthene	<0.0330	U	0.0971	0.0330	ug/L		08/15/11 08:05	08/20/11 20:57	1.00
Fluorene	**0.194**		0.0971	0.0243	ug/L		08/15/11 08:05	08/20/11 20:57	1.00
Indeno (1,2,3-cd) pyrene	<0.0272	U	0.0971	0.0272	ug/L		08/15/11 08:05	08/20/11 20:57	1.00
Phenanthrene	**0.204**		0.0971	0.0612	ug/L		08/15/11 08:05	08/20/11 20:57	1.00
Pyrene	<0.0243	U	0.0971	0.0243	ug/L		08/15/11 08:05	08/20/11 20:57	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*98*		*27 - 120*	*08/15/11 08:05*	*08/20/11 20:57*	*1.00*
2-Fluorobiphenyl	*82*		*29 - 120*	*08/15/11 08:05*	*08/20/11 20:57*	*1.00*
Terphenyl-d14	*86*		*13 - 120*	*08/15/11 08:05*	*08/20/11 20:57*	*1.00*

Method: SW846 8270D SIM - Polyaromatic Hydrocarbons by EPA 8270D SIM - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**41.7**		2.43	0.534	ug/L		08/15/11 08:05	08/21/11 19:10	25.0
2-Methylnaphthalene	**95.4**		2.43	0.825	ug/L		08/15/11 08:05	08/21/11 19:10	25.0
Naphthalene	**47.8**		2.43	0.607	ug/L		08/15/11 08:05	08/21/11 19:10	25.0

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH1989

Client Sample ID: OW-15
Date Collected: 08/11/11 13:56
Date Received: 08/13/11 08:00

Lab Sample ID: NUH1989-05
Matrix: Ground Water

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.270	U	1.00	0.270	ug/L		08/20/11 09:18	08/20/11 13:21	1.00
Ethylbenzene	<0.320	U	1.00	0.320	ug/L		08/20/11 09:18	08/20/11 13:21	1.00
Methyl tert-Butyl Ether	<0.320	U	1.00	0.320	ug/L		08/20/11 09:18	08/20/11 13:21	1.00
Toluene	<0.330	U	1.00	0.330	ug/L		08/20/11 09:18	08/20/11 13:21	1.00
Xylenes, total	<0.870	U	3.00	0.870	ug/L		08/20/11 09:18	08/20/11 13:21	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*91*		*63 - 140*	*08/20/11 09:18*	*08/20/11 13:21*	*1.00*
Dibromofluoromethane	*100*		*73 - 131*	*08/20/11 09:18*	*08/20/11 13:21*	*1.00*
Toluene-d8	*106*		*80 - 120*	*08/20/11 09:18*	*08/20/11 13:21*	*1.00*
4-Bromofluorobenzene	*112*		*79 - 125*	*08/20/11 09:18*	*08/20/11 13:21*	*1.00*

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH1989

Client Sample ID: OW-16
Date Collected: 08/11/11 14:29
Date Received: 08/13/11 08:00

Lab Sample ID: NUH1989-06
Matrix: Ground Water

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.270	U	1.00	0.270	ug/L		08/20/11 09:18	08/20/11 13:48	1.00
Ethylbenzene	<0.320	U	1.00	0.320	ug/L		08/20/11 09:18	08/20/11 13:48	1.00
Methyl tert-Butyl Ether	<0.320	U	1.00	0.320	ug/L		08/20/11 09:18	08/20/11 13:48	1.00
Toluene	<0.330	U	1.00	0.330	ug/L		08/20/11 09:18	08/20/11 13:48	1.00
Xylenes, total	<0.870	U	3.00	0.870	ug/L		08/20/11 09:18	08/20/11 13:48	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*92*		*63 - 140*	*08/20/11 09:18*	*08/20/11 13:48*	*1.00*
Dibromofluoromethane	*100*		*73 - 131*	*08/20/11 09:18*	*08/20/11 13:48*	*1.00*
Toluene-d8	*106*		*80 - 120*	*08/20/11 09:18*	*08/20/11 13:48*	*1.00*
4-Bromofluorobenzene	*110*		*79 - 125*	*08/20/11 09:18*	*08/20/11 13:48*	*1.00*

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH1989

Client Sample ID: OW-17
Date Collected: 08/11/11 13:14
Date Received: 08/13/11 08:00

Lab Sample ID: NUH1989-07
Matrix: Ground Water

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.270	U	1.00	0.270	ug/L		08/20/11 09:18	08/20/11 14:15	1.00
Ethylbenzene	<0.320	U	1.00	0.320	ug/L		08/20/11 09:18	08/20/11 14:15	1.00
Methyl tert-Butyl Ether	<0.320	U	1.00	0.320	ug/L		08/20/11 09:18	08/20/11 14:15	1.00
Toluene	<0.330	U	1.00	0.330	ug/L		08/20/11 09:18	08/20/11 14:15	1.00
Xylenes, total	<0.870	U	3.00	0.870	ug/L		08/20/11 09:18	08/20/11 14:15	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*94*		*63 - 140*	*08/20/11 09:18*	*08/20/11 14:15*	*1.00*
Dibromofluoromethane	*101*		*73 - 131*	*08/20/11 09:18*	*08/20/11 14:15*	*1.00*
Toluene-d8	*107*		*80 - 120*	*08/20/11 09:18*	*08/20/11 14:15*	*1.00*
4-Bromofluorobenzene	*99*		*79 - 125*	*08/20/11 09:18*	*08/20/11 14:15*	*1.00*

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH1989

Client Sample ID: MW-17R
Date Collected: 08/11/11 11:40
Date Received: 08/13/11 08:00

Lab Sample ID: NUH1989-08
Matrix: Ground Water

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**15.7**		1.00	0.270	ug/L		08/20/11 09:18	08/20/11 14:42	1.00
Ethylbenzene	**2.73**		1.00	0.320	ug/L		08/20/11 09:18	08/20/11 14:42	1.00
Methyl tert-Butyl Ether	<0.320	U	1.00	0.320	ug/L		08/20/11 09:18	08/20/11 14:42	1.00
Toluene	<0.330	U	1.00	0.330	ug/L		08/20/11 09:18	08/20/11 14:42	1.00
Xylenes, total	**2.18**	**I**	3.00	0.870	ug/L		08/20/11 09:18	08/20/11 14:42	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*102*		*63 - 140*	*08/20/11 09:18*	*08/20/11 14:42*	*1.00*
Dibromofluoromethane	*101*		*73 - 131*	*08/20/11 09:18*	*08/20/11 14:42*	*1.00*
Toluene-d8	*108*		*80 - 120*	*08/20/11 09:18*	*08/20/11 14:42*	*1.00*
4-Bromofluorobenzene	*110*		*79 - 125*	*08/20/11 09:18*	*08/20/11 14:42*	*1.00*

Method: SW846 8270D SIM - Polyaromatic Hydrocarbons by EPA 8270D SIM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.208**		0.0990	0.0277	ug/L		08/15/11 08:05	08/20/11 21:17	1.00
Acenaphthylene	<0.0248	U	0.0990	0.0248	ug/L		08/15/11 08:05	08/20/11 21:17	1.00
Anthracene	<0.0307	U	0.0990	0.0307	ug/L		08/15/11 08:05	08/20/11 21:17	1.00
Benzo (a) anthracene	<0.0178	U	0.0990	0.0178	ug/L		08/15/11 08:05	08/20/11 21:17	1.00
Benzo (a) pyrene	<0.0317	U	0.0990	0.0317	ug/L		08/15/11 08:05	08/20/11 21:17	1.00
Benzo (b) fluoranthene	<0.0257	U	0.0990	0.0257	ug/L		08/15/11 08:05	08/20/11 21:17	1.00
Benzo (g,h,i) perylene	<0.0238	U	0.0990	0.0238	ug/L		08/15/11 08:05	08/20/11 21:17	1.00
Benzo (k) fluoranthene	<0.0396	U	0.0990	0.0396	ug/L		08/15/11 08:05	08/20/11 21:17	1.00
Chrysene	<0.0347	U	0.0990	0.0347	ug/L		08/15/11 08:05	08/20/11 21:17	1.00
Dibenz (a,h) anthracene	<0.0238	U	0.0990	0.0238	ug/L		08/15/11 08:05	08/20/11 21:17	1.00
Fluoranthene	<0.0337	U	0.0990	0.0337	ug/L		08/15/11 08:05	08/20/11 21:17	1.00
Fluorene	**0.109**		0.0990	0.0248	ug/L		08/15/11 08:05	08/20/11 21:17	1.00
Indeno (1,2,3-cd) pyrene	<0.0277	U	0.0990	0.0277	ug/L		08/15/11 08:05	08/20/11 21:17	1.00
Phenanthrene	**0.0891**	**I**	0.0990	0.0624	ug/L		08/15/11 08:05	08/20/11 21:17	1.00
Pyrene	<0.0248	U	0.0990	0.0248	ug/L		08/15/11 08:05	08/20/11 21:17	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*83*		*27 - 120*	*08/15/11 08:05*	*08/20/11 21:17*	*1.00*
2-Fluorobiphenyl	*70*		*29 - 120*	*08/15/11 08:05*	*08/20/11 21:17*	*1.00*
Terphenyl-d14	*75*		*13 - 120*	*08/15/11 08:05*	*08/20/11 21:17*	*1.00*

Method: SW846 8270D SIM - Polyaromatic Hydrocarbons by EPA 8270D SIM - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**19.8**		0.990	0.218	ug/L		08/15/11 08:05	08/21/11 17:48	10.0
2-Methylnaphthalene	**38.0**		0.990	0.337	ug/L		08/15/11 08:05	08/21/11 17:48	10.0
Naphthalene	**56.1**		0.990	0.248	ug/L		08/15/11 08:05	08/21/11 17:48	10.0

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH1989

Client Sample ID: MW-18R
Date Collected: 08/11/11 10:25
Date Received: 08/13/11 08:00

Lab Sample ID: NUH1989-09
Matrix: Ground Water

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	47.2		1.00	0.270	ug/L		08/17/11 20:52	08/18/11 02:17	1.00
Methyl tert-Butyl Ether	<0.320	U	1.00	0.320	ug/L		08/17/11 20:52	08/18/11 02:17	1.00
Toluene	11.2		1.00	0.330	ug/L		08/17/11 20:52	08/18/11 02:17	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*98*		*63 - 140*	*08/17/11 20:52*	*08/18/11 02:17*	*1.00*
Dibromofluoromethane	*92*		*73 - 131*	*08/17/11 20:52*	*08/18/11 02:17*	*1.00*
Toluene-d8	*112*		*80 - 120*	*08/17/11 20:52*	*08/18/11 02:17*	*1.00*
4-Bromofluorobenzene	*102*		*79 - 125*	*08/17/11 20:52*	*08/18/11 02:17*	*1.00*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	705		10.0	3.20	ug/L		08/20/11 09:18	08/20/11 19:12	10.0
Xylenes, total	965		30.0	8.70	ug/L		08/20/11 09:18	08/20/11 19:12	10.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*92*		*63 - 140*	*08/20/11 09:18*	*08/20/11 19:12*	*10.0*
Dibromofluoromethane	*99*		*73 - 131*	*08/20/11 09:18*	*08/20/11 19:12*	*10.0*
Toluene-d8	*106*		*80 - 120*	*08/20/11 09:18*	*08/20/11 19:12*	*10.0*
4-Bromofluorobenzene	*99*		*79 - 125*	*08/20/11 09:18*	*08/20/11 19:12*	*10.0*

Method: SW846 8270D SIM - Polyaromatic Hydrocarbons by EPA 8270D SIM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.560		0.100	0.0280	ug/L		08/15/11 08:05	08/20/11 21:38	1.00
Acenaphthylene	0.100		0.100	0.0250	ug/L		08/15/11 08:05	08/20/11 21:38	1.00
Anthracene	<0.0310	U	0.100	0.0310	ug/L		08/15/11 08:05	08/20/11 21:38	1.00
Benzo (a) anthracene	<0.0180	U	0.100	0.0180	ug/L		08/15/11 08:05	08/20/11 21:38	1.00
Benzo (a) pyrene	<0.0320	U	0.100	0.0320	ug/L		08/15/11 08:05	08/20/11 21:38	1.00
Benzo (b) fluoranthene	<0.0260	U	0.100	0.0260	ug/L		08/15/11 08:05	08/20/11 21:38	1.00
Benzo (g,h,i) perylene	<0.0240	U	0.100	0.0240	ug/L		08/15/11 08:05	08/20/11 21:38	1.00
Benzo (k) fluoranthene	<0.0400	U	0.100	0.0400	ug/L		08/15/11 08:05	08/20/11 21:38	1.00
Chrysene	<0.0350	U	0.100	0.0350	ug/L		08/15/11 08:05	08/20/11 21:38	1.00
Dibenz (a,h) anthracene	<0.0240	U	0.100	0.0240	ug/L		08/15/11 08:05	08/20/11 21:38	1.00
Fluoranthene	<0.0340	U	0.100	0.0340	ug/L		08/15/11 08:05	08/20/11 21:38	1.00
Fluorene	0.340		0.100	0.0250	ug/L		08/15/11 08:05	08/20/11 21:38	1.00
Indeno (1,2,3-cd) pyrene	<0.0280	U	0.100	0.0280	ug/L		08/15/11 08:05	08/20/11 21:38	1.00
Phenanthrene	0.220		0.100	0.0630	ug/L		08/15/11 08:05	08/20/11 21:38	1.00
Pyrene	<0.0250	U	0.100	0.0250	ug/L		08/15/11 08:05	08/20/11 21:38	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*102*		*27 - 120*	*08/15/11 08:05*	*08/20/11 21:38*	*1.00*
2-Fluorobiphenyl	*67*		*29 - 120*	*08/15/11 08:05*	*08/20/11 21:38*	*1.00*
Terphenyl-d14	*69*		*13 - 120*	*08/15/11 08:05*	*08/20/11 21:38*	*1.00*

Method: SW846 8270D SIM - Polyaromatic Hydrocarbons by EPA 8270D SIM - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	71.5		5.00	1.10	ug/L		08/15/11 08:05	08/21/11 18:30	50.0
2-Methylnaphthalene	180		5.00	1.70	ug/L		08/15/11 08:05	08/21/11 18:30	50.0
Naphthalene	116		5.00	1.25	ug/L		08/15/11 08:05	08/21/11 18:30	50.0

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH1989

Client Sample ID: MW-19R
Date Collected: 08/11/11 11:01
Date Received: 08/13/11 08:00

Lab Sample ID: NUH1989-10
Matrix: Ground Water

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.270	U	1.00	0.270	ug/L		08/17/11 20:52	08/18/11 02:44	1.00
Ethylbenzene	<0.320	U	1.00	0.320	ug/L		08/17/11 20:52	08/18/11 02:44	1.00
Methyl tert-Butyl Ether	<0.320	U	1.00	0.320	ug/L		08/17/11 20:52	08/18/11 02:44	1.00
Toluene	<0.330	U	1.00	0.330	ug/L		08/17/11 20:52	08/18/11 02:44	1.00
Xylenes, total	<0.870	U	3.00	0.870	ug/L		08/17/11 20:52	08/18/11 02:44	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*89*		*63 - 140*	*08/17/11 20:52*	*08/18/11 02:44*	*1.00*
Dibromofluoromethane	*96*		*73 - 131*	*08/17/11 20:52*	*08/18/11 02:44*	*1.00*
Toluene-d8	*104*		*80 - 120*	*08/17/11 20:52*	*08/18/11 02:44*	*1.00*
4-Bromofluorobenzene	*114*		*79 - 125*	*08/17/11 20:52*	*08/18/11 02:44*	*1.00*

Method: SW846 8270D SIM - Polyaromatic Hydrocarbons by EPA 8270D SIM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0280	U	0.100	0.0280	ug/L		08/15/11 08:05	08/20/11 21:58	1.00
Acenaphthylene	<0.0250	U	0.100	0.0250	ug/L		08/15/11 08:05	08/20/11 21:58	1.00
Anthracene	<0.0310	U	0.100	0.0310	ug/L		08/15/11 08:05	08/20/11 21:58	1.00
Benzo (a) anthracene	<0.0180	U	0.100	0.0180	ug/L		08/15/11 08:05	08/20/11 21:58	1.00
Benzo (a) pyrene	<0.0320	U	0.100	0.0320	ug/L		08/15/11 08:05	08/20/11 21:58	1.00
Benzo (b) fluoranthene	<0.0260	U	0.100	0.0260	ug/L		08/15/11 08:05	08/20/11 21:58	1.00
Benzo (g,h,i) perylene	<0.0240	U	0.100	0.0240	ug/L		08/15/11 08:05	08/20/11 21:58	1.00
Benzo (k) fluoranthene	<0.0400	U	0.100	0.0400	ug/L		08/15/11 08:05	08/20/11 21:58	1.00
Chrysene	<0.0350	U	0.100	0.0350	ug/L		08/15/11 08:05	08/20/11 21:58	1.00
Dibenz (a,h) anthracene	<0.0240	U	0.100	0.0240	ug/L		08/15/11 08:05	08/20/11 21:58	1.00
Fluoranthene	<0.0340	U	0.100	0.0340	ug/L		08/15/11 08:05	08/20/11 21:58	1.00
Fluorene	<0.0250	U	0.100	0.0250	ug/L		08/15/11 08:05	08/20/11 21:58	1.00
Indeno (1,2,3-cd) pyrene	<0.0280	U	0.100	0.0280	ug/L		08/15/11 08:05	08/20/11 21:58	1.00
1-Methylnaphthalene	**0.140**		0.100	0.0220	ug/L		08/15/11 08:05	08/20/11 21:58	1.00
2-Methylnaphthalene	**0.330**		0.100	0.0340	ug/L		08/15/11 08:05	08/20/11 21:58	1.00
Naphthalene	**0.240**		0.100	0.0250	ug/L		08/15/11 08:05	08/20/11 21:58	1.00
Phenanthrene	<0.0630	U	0.100	0.0630	ug/L		08/15/11 08:05	08/20/11 21:58	1.00
Pyrene	<0.0250	U	0.100	0.0250	ug/L		08/15/11 08:05	08/20/11 21:58	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*82*		*27 - 120*	*08/15/11 08:05*	*08/20/11 21:58*	*1.00*
2-Fluorobiphenyl	*80*		*29 - 120*	*08/15/11 08:05*	*08/20/11 21:58*	*1.00*
Terphenyl-d14	*86*		*13 - 120*	*08/15/11 08:05*	*08/20/11 21:58*	*1.00*

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH1989

Client Sample ID: MW-20
Date Collected: 08/11/11 12:12
Date Received: 08/13/11 08:00

Lab Sample ID: NUH1989-11
Matrix: Ground Water

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.270	U	1.00	0.270	ug/L		08/17/11 20:52	08/18/11 03:11	1.00
Ethylbenzene	<0.320	U	1.00	0.320	ug/L		08/17/11 20:52	08/18/11 03:11	1.00
Methyl tert-Butyl Ether	<0.320	U	1.00	0.320	ug/L		08/17/11 20:52	08/18/11 03:11	1.00
Toluene	<0.330	U	1.00	0.330	ug/L		08/17/11 20:52	08/18/11 03:11	1.00
Xylenes, total	**1.84**	**I**	3.00	0.870	ug/L		08/17/11 20:52	08/18/11 03:11	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*84*		*63 - 140*	*08/17/11 20:52*	*08/18/11 03:11*	*1.00*
Dibromofluoromethane	*83*		*73 - 131*	*08/17/11 20:52*	*08/18/11 03:11*	*1.00*
Toluene-d8	*101*		*80 - 120*	*08/17/11 20:52*	*08/18/11 03:11*	*1.00*
4-Bromofluorobenzene	*91*		*79 - 125*	*08/17/11 20:52*	*08/18/11 03:11*	*1.00*

Method: SW846 8270D SIM - Polyaromatic Hydrocarbons by EPA 8270D SIM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.0792**	**I**	0.0990	0.0277	ug/L		08/15/11 08:30	08/20/11 22:18	1.00
Acenaphthylene	<0.0248	U	0.0990	0.0248	ug/L		08/15/11 08:30	08/20/11 22:18	1.00
Anthracene	<0.0307	U	0.0990	0.0307	ug/L		08/15/11 08:30	08/20/11 22:18	1.00
Benzo (a) anthracene	<0.0178	U	0.0990	0.0178	ug/L		08/15/11 08:30	08/20/11 22:18	1.00
Benzo (a) pyrene	<0.0317	U	0.0990	0.0317	ug/L		08/15/11 08:30	08/20/11 22:18	1.00
Benzo (b) fluoranthene	<0.0257	U	0.0990	0.0257	ug/L		08/15/11 08:30	08/20/11 22:18	1.00
Benzo (g,h,i) perylene	<0.0238	U	0.0990	0.0238	ug/L		08/15/11 08:30	08/20/11 22:18	1.00
Benzo (k) fluoranthene	<0.0396	U	0.0990	0.0396	ug/L		08/15/11 08:30	08/20/11 22:18	1.00
Chrysene	<0.0347	U	0.0990	0.0347	ug/L		08/15/11 08:30	08/20/11 22:18	1.00
Dibenz (a,h) anthracene	<0.0238	U	0.0990	0.0238	ug/L		08/15/11 08:30	08/20/11 22:18	1.00
Fluoranthene	<0.0337	U	0.0990	0.0337	ug/L		08/15/11 08:30	08/20/11 22:18	1.00
Fluorene	**0.0495**	**I**	0.0990	0.0248	ug/L		08/15/11 08:30	08/20/11 22:18	1.00
Indeno (1,2,3-cd) pyrene	<0.0277	U	0.0990	0.0277	ug/L		08/15/11 08:30	08/20/11 22:18	1.00
1-Methylnaphthalene	**4.90**		0.0990	0.0218	ug/L		08/15/11 08:30	08/20/11 22:18	1.00
2-Methylnaphthalene	**5.19**		0.0990	0.0337	ug/L		08/15/11 08:30	08/20/11 22:18	1.00
Naphthalene	**0.208**		0.0990	0.0248	ug/L		08/15/11 08:30	08/20/11 22:18	1.00
Phenanthrene	<0.0624	U	0.0990	0.0624	ug/L		08/15/11 08:30	08/20/11 22:18	1.00
Pyrene	<0.0248	U	0.0990	0.0248	ug/L		08/15/11 08:30	08/20/11 22:18	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*61*		*27 - 120*	*08/15/11 08:30*	*08/20/11 22:18*	*1.00*
2-Fluorobiphenyl	*69*		*29 - 120*	*08/15/11 08:30*	*08/20/11 22:18*	*1.00*
Terphenyl-d14	*80*		*13 - 120*	*08/15/11 08:30*	*08/20/11 22:18*	*1.00*

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH1989

Client Sample ID: MW-21D
Date Collected: 08/11/11 12:55
Date Received: 08/13/11 08:00

Lab Sample ID: NUH1989-12
Matrix: Ground Water

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-Amyl Methyl Ether	0.450	I V	1.00	0.220	ug/L		08/17/11 20:52	08/18/11 03:38	1.00
Benzene	<0.270	U	1.00	0.270	ug/L		08/17/11 20:52	08/18/11 03:38	1.00
Ethylbenzene	<0.320	U	1.00	0.320	ug/L		08/17/11 20:52	08/18/11 03:38	1.00
Ethyl tert-Butyl Ether	<0.250	U	1.00	0.250	ug/L		08/17/11 20:52	08/18/11 03:38	1.00
Toluene	<0.330	U	1.00	0.330	ug/L		08/17/11 20:52	08/18/11 03:38	1.00
Diisopropyl Ether	<0.370	U	1.00	0.370	ug/L		08/17/11 20:52	08/18/11 03:38	1.00
Methyl tert-Butyl Ether	<0.320	U	1.00	0.320	ug/L		08/17/11 20:52	08/18/11 03:38	1.00
Tertiary Butyl Alcohol	<2.00	U	20.0	2.00	ug/L		08/17/11 20:52	08/18/11 03:38	1.00
Xylenes, total	<0.870	U	3.00	0.870	ug/L		08/17/11 20:52	08/18/11 03:38	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*109*		*63 - 140*	*08/17/11 20:52*	*08/18/11 03:38*	*1.00*
Dibromofluoromethane	*110*		*73 - 131*	*08/17/11 20:52*	*08/18/11 03:38*	*1.00*
Toluene-d8	*80*		*80 - 120*	*08/17/11 20:52*	*08/18/11 03:38*	*1.00*
4-Bromofluorobenzene	*113*		*79 - 125*	*08/17/11 20:52*	*08/18/11 03:38*	*1.00*

Method: SW846 8270D SIM - Polyaromatic Hydrocarbons by EPA 8270D SIM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0267	U	0.0952	0.0267	ug/L		08/15/11 08:30	08/20/11 22:39	1.00
Acenaphthylene	<0.0238	U	0.0952	0.0238	ug/L		08/15/11 08:30	08/20/11 22:39	1.00
Anthracene	<0.0295	U	0.0952	0.0295	ug/L		08/15/11 08:30	08/20/11 22:39	1.00
Benzo (a) anthracene	<0.0171	U	0.0952	0.0171	ug/L		08/15/11 08:30	08/20/11 22:39	1.00
Benzo (a) pyrene	<0.0305	U	0.0952	0.0305	ug/L		08/15/11 08:30	08/20/11 22:39	1.00
Benzo (b) fluoranthene	<0.0248	U	0.0952	0.0248	ug/L		08/15/11 08:30	08/20/11 22:39	1.00
Benzo (g,h,i) perylene	<0.0229	U	0.0952	0.0229	ug/L		08/15/11 08:30	08/20/11 22:39	1.00
Benzo (k) fluoranthene	<0.0381	U	0.0952	0.0381	ug/L		08/15/11 08:30	08/20/11 22:39	1.00
Chrysene	<0.0333	U	0.0952	0.0333	ug/L		08/15/11 08:30	08/20/11 22:39	1.00
Dibenz (a,h) anthracene	<0.0229	U	0.0952	0.0229	ug/L		08/15/11 08:30	08/20/11 22:39	1.00
Fluoranthene	<0.0324	U	0.0952	0.0324	ug/L		08/15/11 08:30	08/20/11 22:39	1.00
Fluorene	<0.0238	U	0.0952	0.0238	ug/L		08/15/11 08:30	08/20/11 22:39	1.00
Indeno (1,2,3-cd) pyrene	<0.0267	U	0.0952	0.0267	ug/L		08/15/11 08:30	08/20/11 22:39	1.00
1-Methylnaphthalene	<0.0210	U	0.0952	0.0210	ug/L		08/15/11 08:30	08/20/11 22:39	1.00
2-Methylnaphthalene	<0.0324	U	0.0952	0.0324	ug/L		08/15/11 08:30	08/20/11 22:39	1.00
Naphthalene	<0.0238	U	0.0952	0.0238	ug/L		08/15/11 08:30	08/20/11 22:39	1.00
Phenanthrene	<0.0600	U	0.0952	0.0600	ug/L		08/15/11 08:30	08/20/11 22:39	1.00
Pyrene	<0.0238	U	0.0952	0.0238	ug/L		08/15/11 08:30	08/20/11 22:39	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*67*		*27 - 120*	*08/15/11 08:30*	*08/20/11 22:39*	*1.00*
2-Fluorobiphenyl	*76*		*29 - 120*	*08/15/11 08:30*	*08/20/11 22:39*	*1.00*
Terphenyl-d14	*85*		*13 - 120*	*08/15/11 08:30*	*08/20/11 22:39*	*1.00*

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH1989

Client Sample ID: MW-22D-R
Date Collected: 08/11/11 14:55
Date Received: 08/13/11 08:00

Lab Sample ID: NUH1989-13
Matrix: Ground Water

DRAFT

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2.36**		1.00	0.270	ug/L		08/20/11 09:18	08/20/11 15:10	1.00
Ethylbenzene	<0.320	U	1.00	0.320	ug/L		08/20/11 09:18	08/20/11 15:10	1.00
Methyl tert-Butyl Ether	<0.320	U	1.00	0.320	ug/L		08/20/11 09:18	08/20/11 15:10	1.00
Toluene	<0.330	U	1.00	0.330	ug/L		08/20/11 09:18	08/20/11 15:10	1.00
Xylenes, total	<0.870	U	3.00	0.870	ug/L		08/20/11 09:18	08/20/11 15:10	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*90*		*63 - 140*	*08/20/11 09:18*	*08/20/11 15:10*	*1.00*
Dibromofluoromethane	*98*		*73 - 131*	*08/20/11 09:18*	*08/20/11 15:10*	*1.00*
Toluene-d8	*107*		*80 - 120*	*08/20/11 09:18*	*08/20/11 15:10*	*1.00*
4-Bromofluorobenzene	*111*		*79 - 125*	*08/20/11 09:18*	*08/20/11 15:10*	*1.00*

Method: SW846 8270D SIM - Polyaromatic Hydrocarbons by EPA 8270D SIM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.0571**	**I**	0.0952	0.0267	ug/L		08/15/11 08:30	08/20/11 23:00	1.00
Acenaphthylene	<0.0238	U	0.0952	0.0238	ug/L		08/15/11 08:30	08/20/11 23:00	1.00
Anthracene	<0.0295	U	0.0952	0.0295	ug/L		08/15/11 08:30	08/20/11 23:00	1.00
Benzo (a) anthracene	<0.0171	U	0.0952	0.0171	ug/L		08/15/11 08:30	08/20/11 23:00	1.00
Benzo (a) pyrene	<0.0305	U	0.0952	0.0305	ug/L		08/15/11 08:30	08/20/11 23:00	1.00
Benzo (b) fluoranthene	<0.0248	U	0.0952	0.0248	ug/L		08/15/11 08:30	08/20/11 23:00	1.00
Benzo (g,h,i) perylene	<0.0229	U	0.0952	0.0229	ug/L		08/15/11 08:30	08/20/11 23:00	1.00
Benzo (k) fluoranthene	<0.0381	U	0.0952	0.0381	ug/L		08/15/11 08:30	08/20/11 23:00	1.00
Chrysene	<0.0333	U	0.0952	0.0333	ug/L		08/15/11 08:30	08/20/11 23:00	1.00
Dibenz (a,h) anthracene	<0.0229	U	0.0952	0.0229	ug/L		08/15/11 08:30	08/20/11 23:00	1.00
Fluoranthene	<0.0324	U	0.0952	0.0324	ug/L		08/15/11 08:30	08/20/11 23:00	1.00
Fluorene	**0.105**		0.0952	0.0238	ug/L		08/15/11 08:30	08/20/11 23:00	1.00
Indeno (1,2,3-cd) pyrene	<0.0267	U	0.0952	0.0267	ug/L		08/15/11 08:30	08/20/11 23:00	1.00
1-Methylnaphthalene	**0.295**		0.0952	0.0210	ug/L		08/15/11 08:30	08/20/11 23:00	1.00
2-Methylnaphthalene	<0.0324	U	0.0952	0.0324	ug/L		08/15/11 08:30	08/20/11 23:00	1.00
Naphthalene	**2.08**		0.0952	0.0238	ug/L		08/15/11 08:30	08/20/11 23:00	1.00
Phenanthrene	<0.0600	U	0.0952	0.0600	ug/L		08/15/11 08:30	08/20/11 23:00	1.00
Pyrene	<0.0238	U	0.0952	0.0238	ug/L		08/15/11 08:30	08/20/11 23:00	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*82*		*27 - 120*	*08/15/11 08:30*	*08/20/11 23:00*	*1.00*
2-Fluorobiphenyl	*89*		*29 - 120*	*08/15/11 08:30*	*08/20/11 23:00*	*1.00*
Terphenyl-d14	*96*		*13 - 120*	*08/15/11 08:30*	*08/20/11 23:00*	*1.00*

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH1989

Client Sample ID: MW-23
Date Collected: 08/11/11 14:56
Date Received: 08/13/11 08:00

Lab Sample ID: NUH1989-14
Matrix: Ground Water

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.270	U	1.00	0.270	ug/L		08/17/11 20:52	08/18/11 04:32	1.00
Ethylbenzene	<0.320	U	1.00	0.320	ug/L		08/17/11 20:52	08/18/11 04:32	1.00
Methyl tert-Butyl Ether	<0.320	U	1.00	0.320	ug/L		08/17/11 20:52	08/18/11 04:32	1.00
Toluene	<0.330	U	1.00	0.330	ug/L		08/17/11 20:52	08/18/11 04:32	1.00
Xylenes, total	<0.870	U	3.00	0.870	ug/L		08/17/11 20:52	08/18/11 04:32	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*100*		*63 - 140*	*08/17/11 20:52*	*08/18/11 04:32*	*1.00*
Dibromofluoromethane	*99*		*73 - 131*	*08/17/11 20:52*	*08/18/11 04:32*	*1.00*
Toluene-d8	*104*		*80 - 120*	*08/17/11 20:52*	*08/18/11 04:32*	*1.00*
4-Bromofluorobenzene	*90*		*79 - 125*	*08/17/11 20:52*	*08/18/11 04:32*	*1.00*

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH1989

Client Sample ID: MW-26I
Date Collected: 08/11/11 16:10
Date Received: 08/13/11 08:00

Lab Sample ID: NUH1989-15
Matrix: Ground Water

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-Amyl Methyl Ether	**0.470**	**I V**	1.00	0.220	ug/L		08/17/11 20:52	08/18/11 04:59	1.00
Benzene	<0.270	U	1.00	0.270	ug/L		08/17/11 20:52	08/18/11 04:59	1.00
Ethylbenzene	<0.320	U	1.00	0.320	ug/L		08/17/11 20:52	08/18/11 04:59	1.00
Ethyl tert-Butyl Ether	<0.250	U	1.00	0.250	ug/L		08/17/11 20:52	08/18/11 04:59	1.00
Toluene	<0.330	U	1.00	0.330	ug/L		08/17/11 20:52	08/18/11 04:59	1.00
Diisopropyl Ether	<0.370	U	1.00	0.370	ug/L		08/17/11 20:52	08/18/11 04:59	1.00
Methyl tert-Butyl Ether	<0.320	U	1.00	0.320	ug/L		08/17/11 20:52	08/18/11 04:59	1.00
Tertiary Butyl Alcohol	**2.25**	**I**	20.0	2.00	ug/L		08/17/11 20:52	08/18/11 04:59	1.00
Xylenes, total	<0.870	U	3.00	0.870	ug/L		08/17/11 20:52	08/18/11 04:59	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*89*		*63 - 140*	*08/17/11 20:52*	*08/18/11 04:59*	*1.00*
Dibromofluoromethane	*73*		*73 - 131*	*08/17/11 20:52*	*08/18/11 04:59*	*1.00*
Toluene-d8	*120*		*80 - 120*	*08/17/11 20:52*	*08/18/11 04:59*	*1.00*
4-Bromofluorobenzene	*88*		*79 - 125*	*08/17/11 20:52*	*08/18/11 04:59*	*1.00*

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH1989

Client Sample ID: MW-29D
Date Collected: 08/11/11 13:50
Date Received: 08/13/11 08:00

Lab Sample ID: NUH1989-16
Matrix: Ground Water

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-Amyl Methyl Ether	<0.220	U	1.00	0.220	ug/L		08/20/11 09:18	08/20/11 15:37	1.00
Benzene	<0.270	U	1.00	0.270	ug/L		08/20/11 09:18	08/20/11 15:37	1.00
Ethylbenzene	<0.320	U	1.00	0.320	ug/L		08/20/11 09:18	08/20/11 15:37	1.00
Ethyl tert-Butyl Ether	<0.250	U	1.00	0.250	ug/L		08/20/11 09:18	08/20/11 15:37	1.00
Toluene	<0.330	U	1.00	0.330	ug/L		08/20/11 09:18	08/20/11 15:37	1.00
Diisopropyl Ether	<0.370	U	1.00	0.370	ug/L		08/20/11 09:18	08/20/11 15:37	1.00
Methyl tert-Butyl Ether	<0.320	U	1.00	0.320	ug/L		08/20/11 09:18	08/20/11 15:37	1.00
Tertiary Butyl Alcohol	**71.9**		20.0	2.00	ug/L		08/20/11 09:18	08/20/11 15:37	1.00
Xylenes, total	<0.870	U	3.00	0.870	ug/L		08/20/11 09:18	08/20/11 15:37	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*92*		*63 - 140*	*08/20/11 09:18*	*08/20/11 15:37*	*1.00*
Dibromofluoromethane	*100*		*73 - 131*	*08/20/11 09:18*	*08/20/11 15:37*	*1.00*
Toluene-d8	*107*		*80 - 120*	*08/20/11 09:18*	*08/20/11 15:37*	*1.00*
4-Bromofluorobenzene	*99*		*79 - 125*	*08/20/11 09:18*	*08/20/11 15:37*	*1.00*

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH1989

Client Sample ID: MW-31D
Date Collected: 08/11/11 14:35
Date Received: 08/13/11 08:00

Lab Sample ID: NUH1989-17
Matrix: Ground Water

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.270	U	1.00	0.270	ug/L		08/20/11 09:18	08/20/11 16:03	1.00
Ethylbenzene	<0.320	U	1.00	0.320	ug/L		08/20/11 09:18	08/20/11 16:03	1.00
Methyl tert-Butyl Ether	<0.320	U	1.00	0.320	ug/L		08/20/11 09:18	08/20/11 16:03	1.00
Toluene	<0.330	U	1.00	0.330	ug/L		08/20/11 09:18	08/20/11 16:03	1.00
Xylenes, total	<0.870	U	3.00	0.870	ug/L		08/20/11 09:18	08/20/11 16:03	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*91*		*63 - 140*	*08/20/11 09:18*	*08/20/11 16:03*	*1.00*
Dibromofluoromethane	*99*		*73 - 131*	*08/20/11 09:18*	*08/20/11 16:03*	*1.00*
Toluene-d8	*107*		*80 - 120*	*08/20/11 09:18*	*08/20/11 16:03*	*1.00*
4-Bromofluorobenzene	*110*		*79 - 125*	*08/20/11 09:18*	*08/20/11 16:03*	*1.00*

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH1989

Client Sample ID: MW-34I
Date Collected: 08/11/11 16:03
Date Received: 08/13/11 08:00

Lab Sample ID: NUH1989-18
Matrix: Ground Water

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.270	U	1.00	0.270	ug/L		08/17/11 20:52	08/18/11 06:20	1.00
Ethylbenzene	<0.320	U	1.00	0.320	ug/L		08/17/11 20:52	08/18/11 06:20	1.00
Methyl tert-Butyl Ether	<0.320	U	1.00	0.320	ug/L		08/17/11 20:52	08/18/11 06:20	1.00
Toluene	<0.330	U	1.00	0.330	ug/L		08/17/11 20:52	08/18/11 06:20	1.00
Xylenes, total	<0.870	U	3.00	0.870	ug/L		08/17/11 20:52	08/18/11 06:20	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*79*		*63 - 140*	*08/17/11 20:52*	*08/18/11 06:20*	*1.00*
Dibromofluoromethane	*76*		*73 - 131*	*08/17/11 20:52*	*08/18/11 06:20*	*1.00*
Toluene-d8	*97*		*80 - 120*	*08/17/11 20:52*	*08/18/11 06:20*	*1.00*
4-Bromofluorobenzene	*95*		*79 - 125*	*08/17/11 20:52*	*08/18/11 06:20*	*1.00*

DRAFT

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Lab Sample ID: 11H3467-BLK1
Matrix: Water
Analysis Batch: U014926

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11H3467_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-Amyl Methyl Ether	<0.220	U	1.00	0.220	ug/L		08/20/11 09:18	08/20/11 12:54	1.00
Benzene	<0.270	U	1.00	0.270	ug/L		08/20/11 09:18	08/20/11 12:54	1.00
Ethylbenzene	<0.320	U	1.00	0.320	ug/L		08/20/11 09:18	08/20/11 12:54	1.00
Ethyl tert-Butyl Ether	<0.250	U	1.00	0.250	ug/L		08/20/11 09:18	08/20/11 12:54	1.00
Methyl tert-Butyl Ether	<0.320	U	1.00	0.320	ug/L		08/20/11 09:18	08/20/11 12:54	1.00
Diisopropyl Ether	<0.370	U	1.00	0.370	ug/L		08/20/11 09:18	08/20/11 12:54	1.00
Toluene	<0.330	U	1.00	0.330	ug/L		08/20/11 09:18	08/20/11 12:54	1.00
Methyl tert-Butyl Ether	<0.320	U	1.00	0.320	ug/L		08/20/11 09:18	08/20/11 12:54	1.00
Tertiary Butyl Alcohol	<2.00	U	20.0	2.00	ug/L		08/20/11 09:18	08/20/11 12:54	1.00
Xylenes, total	<0.870	U	3.00	0.870	ug/L		08/20/11 09:18	08/20/11 12:54	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*92*		*63 - 140*	*08/20/11 09:18*	*08/20/11 12:54*	*1.00*
Dibromofluoromethane	*99*		*73 - 131*	*08/20/11 09:18*	*08/20/11 12:54*	*1.00*
Toluene-d8	*107*		*80 - 120*	*08/20/11 09:18*	*08/20/11 12:54*	*1.00*
4-Bromofluorobenzene	*111*		*79 - 125*	*08/20/11 09:18*	*08/20/11 12:54*	*1.00*

Lab Sample ID: 11H3467-BS1
Matrix: Water
Analysis Batch: U014926

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11H3467_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Tert-Amyl Methyl Ether	50.0	44.1		ug/L		88	70 - 133
Benzene	50.0	54.8		ug/L		110	80 - 121
Ethylbenzene	50.0	54.4		ug/L		109	78 - 133
Ethyl tert-Butyl Ether	50.0	44.6		ug/L		89	68 - 138
Methyl tert-Butyl Ether	50.0	49.3		ug/L		99	76 - 120
Diisopropyl Ether	50.0	48.7		ug/L		97	63 - 136
Toluene	50.0	59.8		ug/L		120	78 - 125
Methyl tert-Butyl Ether	50.0	49.3		ug/L		99	76 - 120
Tertiary Butyl Alcohol	500	480		ug/L		96	60 - 140
Xylenes, total	150	157		ug/L		105	78 - 134

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*92*		*63 - 140*
Dibromofluoromethane	*98*		*73 - 131*
Toluene-d8	*107*		*80 - 120*
4-Bromofluorobenzene	*101*		*79 - 125*

Lab Sample ID: 11H3467-BSD1
Matrix: Water
Analysis Batch: U014926

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 11H3467_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Tert-Amyl Methyl Ether	50.0	43.7		ug/L		87	70 - 133	1	16
Benzene	50.0	55.9		ug/L		112	80 - 121	2	12
Ethylbenzene	50.0	55.8		ug/L		112	78 - 133	2	12
Ethyl tert-Butyl Ether	50.0	44.7		ug/L		89	68 - 138	0.2	16
Methyl tert-Butyl Ether	50.0	48.8		ug/L		98	76 - 120	1	32

DRAFT

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11H3467-BSD1
Matrix: Water
Analysis Batch: U014926

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 11H3467_P

Analyte			Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Diisopropyl Ether			50.0	49.0		ug/L		98	63 - 136	0.6	32
Toluene			50.0	60.9		ug/L		122	78 - 125	2	35
Methyl tert-Butyl Ether			50.0	48.8		ug/L		98	76 - 120	1	32
Tertiary Butyl Alcohol			500	466		ug/L		93	60 - 140	3	30
Xylenes, total			150	159		ug/L		106	78 - 134	1	18

Surrogate	*LCS Dup % Recovery*	*LCS Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*90*		*63 - 140*
Dibromofluoromethane	*97*		*73 - 131*
Toluene-d8	*108*		*80 - 120*
4-Bromofluorobenzene	*101*		*79 - 125*

Lab Sample ID: 11H3467-MS1
Matrix: Water
Analysis Batch: U014926

Client Sample ID: Matrix Spike
Prep Type: Total
Prep Batch: 11H3467_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Tert-Amyl Methyl Ether	24.5		2500	2240		ug/L		89	69 - 139
Benzene	<13.5		2500	2930		ug/L		117	65 - 151
Ethylbenzene	1280		2500	4210		ug/L		117	68 - 157
Ethyl tert-Butyl Ether	<12.5		2500	2300		ug/L		92	68 - 139
Methyl tert-Butyl Ether	<16.0		2500	2560		ug/L		102	56 - 152
Diisopropyl Ether	<18.5		2500	2530		ug/L		101	59 - 145
Toluene	786		2500	3910		ug/L		125	61 - 153
Methyl tert-Butyl Ether	<16.0		2500	2560		ug/L		102	56 - 152
Tertiary Butyl Alcohol	<100		25000	25700		ug/L		103	14 - 200
Xylenes, total	7560		7500	15100		ug/L		101	68 - 158

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
1,2-Dichloroethane-d4	*92*		*63 - 140*
Dibromofluoromethane	*98*		*73 - 131*
Toluene-d8	*105*		*80 - 120*
4-Bromofluorobenzene	*111*		*79 - 125*

Lab Sample ID: 11H3467-MSD1
Matrix: Water
Analysis Batch: U014926

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 11H3467_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Tert-Amyl Methyl Ether	24.5		2500	2270		ug/L		90	69 - 139	1	16
Benzene	<13.5		2500	2950		ug/L		118	65 - 151	0.9	12
Ethylbenzene	1280		2500	4270		ug/L		119	68 - 157	1	12
Ethyl tert-Butyl Ether	<12.5		2500	2380		ug/L		95	68 - 139	4	16
Methyl tert-Butyl Ether	<16.0		2500	2580		ug/L		103	56 - 152	0.8	32
Diisopropyl Ether	<18.5		2500	2570		ug/L		103	59 - 145	1	32
Toluene	786		2500	4010		ug/L		129	61 - 153	3	35
Methyl tert-Butyl Ether	<16.0		2500	2580		ug/L		103	56 - 152	0.8	32
Tertiary Butyl Alcohol	<100		25000	25900		ug/L		104	14 - 200	1	30
Xylenes, total	7560		7500	15200		ug/L		101	68 - 158	0.2	18

DRAFT

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11H3467-MSD1
Matrix: Water
Analysis Batch: U014926

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 11H3467_P

Surrogate	Matrix Spike Dup % Recovery	Matrix Spike Dup Qualifier	Limits
1,2-Dichloroethane-d4	91		63 - 140
Dibromofluoromethane	98		73 - 131
Toluene-d8	106		80 - 120
4-Bromofluorobenzene	102		79 - 125

Lab Sample ID: 11H3784-BLK1
Matrix: Water
Analysis Batch: U014736

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11H3784_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-Amyl Methyl Ether	<0.220	U	1.00	0.220	ug/L		08/17/11 08:15	08/17/11 10:57	1.00
Benzene	<0.270	U	1.00	0.270	ug/L		08/17/11 08:15	08/17/11 10:57	1.00
Ethylbenzene	<0.320	U	1.00	0.320	ug/L		08/17/11 08:15	08/17/11 10:57	1.00
Ethyl tert-Butyl Ether	<0.250	U	1.00	0.250	ug/L		08/17/11 08:15	08/17/11 10:57	1.00
Toluene	<0.330	U	1.00	0.330	ug/L		08/17/11 08:15	08/17/11 10:57	1.00
Diisopropyl Ether	<0.370	U	1.00	0.370	ug/L		08/17/11 08:15	08/17/11 10:57	1.00
Methyl tert-Butyl Ether	<0.320	U	1.00	0.320	ug/L		08/17/11 08:15	08/17/11 10:57	1.00
Tertiary Butyl Alcohol	<2.00	U	20.0	2.00	ug/L		08/17/11 08:15	08/17/11 10:57	1.00
Xylenes, total	<0.870	U	3.00	0.870	ug/L		08/17/11 08:15	08/17/11 10:57	1.00

Surrogate	Blank % Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	87		63 - 140	08/17/11 08:15	08/17/11 10:57	1.00
Dibromofluoromethane	97		73 - 131	08/17/11 08:15	08/17/11 10:57	1.00
Toluene-d8	105		80 - 120	08/17/11 08:15	08/17/11 10:57	1.00
4-Bromofluorobenzene	96		79 - 125	08/17/11 08:15	08/17/11 10:57	1.00

Lab Sample ID: 11H3784-BS1
Matrix: Water
Analysis Batch: U014736

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11H3784_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Tert-Amyl Methyl Ether	50.0	41.8		ug/L		84	70 - 133
Benzene	50.0	51.3		ug/L		103	80 - 121
Ethylbenzene	50.0	52.0		ug/L		104	78 - 133
Ethyl tert-Butyl Ether	50.0	40.0		ug/L		80	68 - 138
Toluene	50.0	56.7		ug/L		113	78 - 125
Diisopropyl Ether	50.0	44.1		ug/L		88	63 - 136
Methyl tert-Butyl Ether	50.0	45.8		ug/L		92	76 - 120
Tertiary Butyl Alcohol	500	417		ug/L		83	60 - 140
Xylenes, total	150	149		ug/L		100	78 - 134

Surrogate	LCS % Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4	86		63 - 140
Dibromofluoromethane	95		73 - 131
Toluene-d8	105		80 - 120
4-Bromofluorobenzene	93		79 - 125

DRAFT

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11H3784-BSD1
Matrix: Water
Analysis Batch: U014736

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 11H3784_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Tert-Amyl Methyl Ether	50.0	42.0		ug/L		84	70 - 133	0.5	16
Benzene	50.0	52.6		ug/L		105	80 - 121	3	12
Ethylbenzene	50.0	53.3		ug/L		107	78 - 133	3	12
Ethyl tert-Butyl Ether	50.0	40.4		ug/L		81	68 - 138	0.9	16
Toluene	50.0	57.9		ug/L		116	78 - 125	2	35
Diisopropyl Ether	50.0	44.5		ug/L		89	63 - 136	0.9	32
Methyl tert-Butyl Ether	50.0	45.7		ug/L		91	76 - 120	0.3	32
Tertiary Butyl Alcohol	500	420		ug/L		84	60 - 140	0.6	30
Xylenes, total	150	152		ug/L		101	78 - 134	2	18

Surrogate	*LCS Dup % Recovery*	*LCS Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*87*		*63 - 140*
Dibromofluoromethane	*95*		*73 - 131*
Toluene-d8	*105*		*80 - 120*
4-Bromofluorobenzene	*96*		*79 - 125*

Lab Sample ID: 11H3784-MS1
Matrix: Water
Analysis Batch: U014736

Client Sample ID: Matrix Spike
Prep Type: Total
Prep Batch: 11H3784_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Tert-Amyl Methyl Ether	23.5		2500	2290		ug/L		91	69 - 139
Benzene	<13.5		2500	3030		ug/L		121	65 - 151
Ethylbenzene	<16.0		2500	3070		ug/L		123	68 - 157
Ethyl tert-Butyl Ether	<12.5		2500	2280		ug/L		91	68 - 139
Toluene	<16.5		2500	3370		ug/L		135	61 - 153
Diisopropyl Ether	<18.5		2500	2550		ug/L		102	59 - 145
Methyl tert-Butyl Ether	21.0		2500	2520		ug/L		100	56 - 152
Tertiary Butyl Alcohol	30000		25000	55100		ug/L		100	14 - 200
Xylenes, total	<43.5		7500	8660		ug/L		115	68 - 158

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
1,2-Dichloroethane-d4	*84*		*63 - 140*
Dibromofluoromethane	*96*		*73 - 131*
Toluene-d8	*106*		*80 - 120*
4-Bromofluorobenzene	*97*		*79 - 125*

Lab Sample ID: 11H3784-MSD1
Matrix: Water
Analysis Batch: U014736

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 11H3784_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Tert-Amyl Methyl Ether	23.5		2500	2290		ug/L		91	69 - 139	0.04	16
Benzene	<13.5		2500	2770		ug/L		111	65 - 151	9	12
Ethylbenzene	<16.0		2500	2800		ug/L		112	68 - 157	9	12
Ethyl tert-Butyl Ether	<12.5		2500	2190		ug/L		88	68 - 139	4	16
Toluene	<16.5		2500	3060		ug/L		122	61 - 153	10	35
Diisopropyl Ether	<18.5		2500	2380		ug/L		95	59 - 145	7	32
Methyl tert-Butyl Ether	21.0		2500	2540		ug/L		101	56 - 152	0.8	32

DRAFT

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11H3784-MSD1
Matrix: Water
Analysis Batch: U014736

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 11H3784_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Tertiary Butyl Alcohol	30000		25000	64100		ug/L		136	14 - 200	15	30
Xylenes, total	<43.5		7500	7930		ug/L		106	68 - 158	9	18

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*87*		*63 - 140*
Dibromofluoromethane	*96*		*73 - 131*
Toluene-d8	*104*		*80 - 120*
4-Bromofluorobenzene	*93*		*79 - 125*

Lab Sample ID: 11H4820-BLK1
Matrix: Water
Analysis Batch: U014814

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11H4820_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-Amyl Methyl Ether	0.470	I	1.00	0.220	ug/L		08/17/11 20:52	08/17/11 23:34	1.00
Benzene	<0.270	U	1.00	0.270	ug/L		08/17/11 20:52	08/17/11 23:34	1.00
Ethylbenzene	<0.320	U	1.00	0.320	ug/L		08/17/11 20:52	08/17/11 23:34	1.00
Ethyl tert-Butyl Ether	<0.250	U	1.00	0.250	ug/L		08/17/11 20:52	08/17/11 23:34	1.00
Toluene	<0.330	U	1.00	0.330	ug/L		08/17/11 20:52	08/17/11 23:34	1.00
Diisopropyl Ether	<0.370	U	1.00	0.370	ug/L		08/17/11 20:52	08/17/11 23:34	1.00
Methyl tert-Butyl Ether	<0.320	U	1.00	0.320	ug/L		08/17/11 20:52	08/17/11 23:34	1.00
Tertiary Butyl Alcohol	<2.00	U	20.0	2.00	ug/L		08/17/11 20:52	08/17/11 23:34	1.00
Xylenes, total	<0.870	U	3.00	0.870	ug/L		08/17/11 20:52	08/17/11 23:34	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*94*		*63 - 140*	*08/17/11 20:52*	*08/17/11 23:34*	*1.00*
Dibromofluoromethane	*95*		*73 - 131*	*08/17/11 20:52*	*08/17/11 23:34*	*1.00*
Toluene-d8	*90*		*80 - 120*	*08/17/11 20:52*	*08/17/11 23:34*	*1.00*
4-Bromofluorobenzene	*111*		*79 - 125*	*08/17/11 20:52*	*08/17/11 23:34*	*1.00*

Lab Sample ID: 11H4820-BS1
Matrix: Water
Analysis Batch: U014814

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11H4820_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Tert-Amyl Methyl Ether	50.0	42.8	V	ug/L		86	70 - 133
Benzene	50.0	52.9		ug/L		106	80 - 121
Ethylbenzene	50.0	52.4		ug/L		105	78 - 133
Ethyl tert-Butyl Ether	50.0	40.7		ug/L		81	68 - 138
Toluene	50.0	57.1		ug/L		114	78 - 125
Diisopropyl Ether	50.0	44.3		ug/L		89	63 - 136
Methyl tert-Butyl Ether	50.0	46.6		ug/L		93	76 - 120
Tertiary Butyl Alcohol	500	476		ug/L		95	60 - 140
Xylenes, total	150	149		ug/L		99	78 - 134

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*88*		*63 - 140*
Dibromofluoromethane	*97*		*73 - 131*
Toluene-d8	*103*		*80 - 120*

DRAFT

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11H4820-BS1
Matrix: Water
Analysis Batch: U014814

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11H4820_P

Surrogate	LCS % Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	*95*		*79 - 125*

Lab Sample ID: 11H4820-BSD1
Matrix: Water
Analysis Batch: U014814

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 11H4820_P

Analyte			Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Tert-Amyl Methyl Ether			50.0	42.1	V	ug/L		84	70 - 133	2	16
Benzene			50.0	52.4		ug/L		105	80 - 121	1	12
Ethylbenzene			50.0	52.4		ug/L		105	78 - 133	0.02	12
Ethyl tert-Butyl Ether			50.0	40.8		ug/L		82	68 - 138	0.2	16
Toluene			50.0	57.4		ug/L		115	78 - 125	0.5	35
Diisopropyl Ether			50.0	44.7		ug/L		89	63 - 136	0.9	32
Methyl tert-Butyl Ether			50.0	46.2		ug/L		92	76 - 120	0.8	32
Tertiary Butyl Alcohol			500	463		ug/L		93	60 - 140	3	30
Xylenes, total			150	149		ug/L		99	78 - 134	0.2	18

Surrogate	LCS Dup % Recovery	LCS Dup Qualifier	Limits
1,2-Dichloroethane-d4	*86*		*63 - 140*
Dibromofluoromethane	*96*		*73 - 131*
Toluene-d8	*105*		*80 - 120*
4-Bromofluorobenzene	*98*		*79 - 125*

Lab Sample ID: 11H4820-MS1
Matrix: Water
Analysis Batch: U014814

Client Sample ID: OW-12
Prep Type: Total
Prep Batch: 11H4820_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits		
Tert-Amyl Methyl Ether	<0.220	U	50.0	46.7	V	ug/L		93	69 - 139		
Benzene	33.3		50.0	95.9		ug/L		125	65 - 151		
Ethylbenzene	9.46		50.0	70.3		ug/L		122	68 - 157		
Ethyl tert-Butyl Ether	0.410	I	50.0	49.0		ug/L		97	68 - 139		
Toluene	1.46		50.0	67.0		ug/L		131	61 - 153		
Diisopropyl Ether	<0.370	U	50.0	53.2		ug/L		106	59 - 145		
Methyl tert-Butyl Ether	0.830	I	50.0	53.4		ug/L		105	56 - 152		
Tertiary Butyl Alcohol	27.0		500	546		ug/L		104	14 - 200		
Xylenes, total	17.4		150	186		ug/L		112	68 - 158		

Surrogate	Matrix Spike % Recovery	Matrix Spike Qualifier	Limits
1,2-Dichloroethane-d4	*92*		*63 - 140*
Dibromofluoromethane	*98*		*73 - 131*
Toluene-d8	*108*		*80 - 120*
4-Bromofluorobenzene	*117*		*79 - 125*

DRAFT

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11H4820-MSD1
Matrix: Water
Analysis Batch: U014814

Client Sample ID: OW-12
Prep Type: Total
Prep Batch: 11H4820_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Tert-Amyl Methyl Ether	<0.220	U	50.0	48.9	V	ug/L		98	69 - 139	5	16
Benzene	33.3		50.0	96.8		ug/L		127	65 - 151	1	12
Ethylbenzene	9.46		50.0	71.4		ug/L		124	68 - 157	2	12
Ethyl tert-Butyl Ether	0.410	I	50.0	52.1		ug/L		103	68 - 139	6	16
Toluene	1.46		50.0	66.8		ug/L		131	61 - 153	0.2	35
Diisopropyl Ether	<0.370	U	50.0	54.5		ug/L		109	59 - 145	2	32
Methyl tert-Butyl Ether	0.830	I	50.0	56.1		ug/L		111	56 - 152	5	32
Tertiary Butyl Alcohol	27.0		500	651		ug/L		125	14 - 200	17	30
Xylenes, total	17.4		150	190		ug/L		115	68 - 158	2	18

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*91*		*63 - 140*
Dibromofluoromethane	*99*		*73 - 131*
Toluene-d8	*107*		*80 - 120*
4-Bromofluorobenzene	*118*		*79 - 125*

Method: SW846 8270D SIM - Polyaromatic Hydrocarbons by EPA 8270D SIM

Lab Sample ID: 11H3375-BLK1
Matrix: Water
Analysis Batch: 11H3375

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11H3375_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0280	U	0.100	0.0280	ug/L		08/15/11 07:20	08/20/11 15:28	1.00
Acenaphthylene	<0.0250	U	0.100	0.0250	ug/L		08/15/11 07:20	08/20/11 15:28	1.00
Anthracene	<0.0310	U	0.100	0.0310	ug/L		08/15/11 07:20	08/20/11 15:28	1.00
Benzo (a) anthracene	<0.0180	U	0.100	0.0180	ug/L		08/15/11 07:20	08/20/11 15:28	1.00
Benzo (a) pyrene	<0.0320	U	0.100	0.0320	ug/L		08/15/11 07:20	08/20/11 15:28	1.00
Benzo (b) fluoranthene	<0.0260	U	0.100	0.0260	ug/L		08/15/11 07:20	08/20/11 15:28	1.00
Benzo (g,h,i) perylene	<0.0240	U	0.100	0.0240	ug/L		08/15/11 07:20	08/20/11 15:28	1.00
Benzo (k) fluoranthene	<0.0400	U	0.100	0.0400	ug/L		08/15/11 07:20	08/20/11 15:28	1.00
Chrysene	<0.0350	U	0.100	0.0350	ug/L		08/15/11 07:20	08/20/11 15:28	1.00
Dibenz (a,h) anthracene	<0.0240	U	0.100	0.0240	ug/L		08/15/11 07:20	08/20/11 15:28	1.00
Fluoranthene	<0.0340	U	0.100	0.0340	ug/L		08/15/11 07:20	08/20/11 15:28	1.00
Fluorene	<0.0250	U	0.100	0.0250	ug/L		08/15/11 07:20	08/20/11 15:28	1.00
Indeno (1,2,3-cd) pyrene	<0.0280	U	0.100	0.0280	ug/L		08/15/11 07:20	08/20/11 15:28	1.00
1-Methylnaphthalene	<0.0220	U	0.100	0.0220	ug/L		08/15/11 07:20	08/20/11 15:28	1.00
2-Methylnaphthalene	<0.0340	U	0.100	0.0340	ug/L		08/15/11 07:20	08/20/11 15:28	1.00
Naphthalene	<0.0250	U	0.100	0.0250	ug/L		08/15/11 07:20	08/20/11 15:28	1.00
Phenanthrene	<0.0630	U	0.100	0.0630	ug/L		08/15/11 07:20	08/20/11 15:28	1.00
Pyrene	<0.0250	U	0.100	0.0250	ug/L		08/15/11 07:20	08/20/11 15:28	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*100*		*27 - 120*	*08/15/11 07:20*	*08/20/11 15:28*	*1.00*
2-Fluorobiphenyl	*106*		*29 - 120*	*08/15/11 07:20*	*08/20/11 15:28*	*1.00*
Terphenyl-d14	*115*		*13 - 120*	*08/15/11 07:20*	*08/20/11 15:28*	*1.00*

DRAFT

Method: SW846 8270D SIM - Polyaromatic Hydrocarbons by EPA 8270D SIM (Continued)

Lab Sample ID: 11H3375-BS1
Matrix: Water
Analysis Batch: 11H3375

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11H3375_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	1.00	0.830	MNR1	ug/L		83	43 - 122
Acenaphthylene	1.00	0.810	MNR1	ug/L		81	43 - 129
Anthracene	1.00	0.920	MNR1	ug/L		92	50 - 138
Benzo (a) anthracene	1.00	0.980	MNR1	ug/L		98	50 - 135
Benzo (a) pyrene	1.00	1.00	MNR1	ug/L		100	46 - 136
Benzo (b) fluoranthene	1.00	0.940	MNR1	ug/L		94	37 - 147
Benzo (g,h,i) perylene	1.00	0.850	MNR1	ug/L		85	30 - 145
Benzo (k) fluoranthene	1.00	0.950	MNR1	ug/L		95	47 - 135
Chrysene	1.00	0.960	MNR1	ug/L		96	47 - 138
Dibenz (a,h) anthracene	1.00	0.850	MNR1	ug/L		85	36 - 144
Fluoranthene	1.00	0.970	MNR1	ug/L		97	51 - 139
Fluorene	1.00	0.900	MNR1	ug/L		90	47 - 128
Indeno (1,2,3-cd) pyrene	1.00	0.850	MNR1	ug/L		85	32 - 142
1-Methylnaphthalene	1.00	0.720	MNR1	ug/L		72	37 - 126
2-Methylnaphthalene	1.00	0.850	MNR1	ug/L		85	41 - 121
Naphthalene	1.00	0.900	MNR1	ug/L		90	38 - 120
Phenanthrene	1.00	0.900	MNR1	ug/L		90	45 - 133
Pyrene	1.00	0.950	MNR1	ug/L		95	50 - 146

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*71*		*27 - 120*
2-Fluorobiphenyl	*81*		*29 - 120*
Terphenyl-d14	*92*		*13 - 120*

Lab Sample ID: 11H3375-BSD1
Matrix: Water
Analysis Batch: 11H3375

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 11H3375_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acenaphthene	1.00	0.870		ug/L		87	43 - 122	5	35
Acenaphthylene	1.00	0.850		ug/L		85	43 - 129	5	31
Anthracene	1.00	0.920		ug/L		92	50 - 138	0	38
Benzo (a) anthracene	1.00	1.00		ug/L		100	50 - 135	2	50
Benzo (a) pyrene	1.00	1.01		ug/L		101	46 - 136	1	50
Benzo (b) fluoranthene	1.00	0.950		ug/L		95	37 - 147	1	50
Benzo (g,h,i) perylene	1.00	0.920		ug/L		92	30 - 145	8	50
Benzo (k) fluoranthene	1.00	0.980		ug/L		98	47 - 135	3	50
Chrysene	1.00	0.980		ug/L		98	47 - 138	2	50
Dibenz (a,h) anthracene	1.00	0.900		ug/L		90	36 - 144	6	50
Fluoranthene	1.00	0.920		ug/L		92	51 - 139	5	40
Fluorene	1.00	0.900		ug/L		90	47 - 128	0	39
Indeno (1,2,3-cd) pyrene	1.00	0.900		ug/L		90	32 - 142	6	50
1-Methylnaphthalene	1.00	0.730		ug/L		73	37 - 126	1	27
2-Methylnaphthalene	1.00	0.860		ug/L		86	41 - 121	1	29
Naphthalene	1.00	0.940		ug/L		94	38 - 120	4	32
Phenanthrene	1.00	0.910		ug/L		91	45 - 133	1	47
Pyrene	1.00	0.990		ug/L		99	50 - 146	4	37

DRAFT

Method: SW846 8270D SIM - Polyaromatic Hydrocarbons by EPA 8270D SIM (Continued)

Lab Sample ID: 11H3375-BSD1
Matrix: Water
Analysis Batch: 11H3375

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 11H3375_P

Surrogate	LCS Dup % Recovery	LCS Dup Qualifier	Limits
Nitrobenzene-d5	*74*		*27 - 120*
2-Fluorobiphenyl	*86*		*29 - 120*
Terphenyl-d14	*94*		*13 - 120*

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GCMS Volatiles

Analysis Batch: U014736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H3784-BLK1	Method Blank	Total	Water	SW846 8260B	11H3784_P
11H3784-BS1	Lab Control Sample	Total	Water	SW846 8260B	11H3784_P
11H3784-BSD1	Lab Control Sample Dup	Total	Water	SW846 8260B	11H3784_P
11H3784-MS1	Matrix Spike	Total	Water	SW846 8260B	11H3784_P
11H3784-MSD1	Matrix Spike Duplicate	Total	Water	SW846 8260B	11H3784_P
NUH1989-01	OW-5	Total	Ground Water	SW846 8260B	11H3784_P
NUH1989-02	OW-8	Total	Ground Water	SW846 8260B	11H3784_P
NUH1989-03	OW-10	Total	Ground Water	SW846 8260B	11H3784_P

Analysis Batch: U014814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H4820-BLK1	Method Blank	Total	Water	SW846 8260B	11H4820_P
11H4820-BS1	Lab Control Sample	Total	Water	SW846 8260B	11H4820_P
11H4820-BSD1	Lab Control Sample Dup	Total	Water	SW846 8260B	11H4820_P
11H4820-MS1	OW-12	Total	Water	SW846 8260B	11H4820_P
11H4820-MSD1	OW-12	Total	Water	SW846 8260B	11H4820_P
NUH1989-04	OW-12	Total	Ground Water	SW846 8260B	11H4820_P
NUH1989-09	MW-18R	Total	Ground Water	SW846 8260B	11H4820_P
NUH1989-10	MW-19R	Total	Ground Water	SW846 8260B	11H4820_P
NUH1989-11	MW-20	Total	Ground Water	SW846 8260B	11H4820_P
NUH1989-12	MW-21D	Total	Ground Water	SW846 8260B	11H4820_P
NUH1989-14	MW-23	Total	Ground Water	SW846 8260B	11H4820_P
NUH1989-15	MW-26I	Total	Ground Water	SW846 8260B	11H4820_P
NUH1989-18	MW-34I	Total	Ground Water	SW846 8260B	11H4820_P

Analysis Batch: U014926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H3467-BLK1	Method Blank	Total	Water	SW846 8260B	11H3467_P
11H3467-BS1	Lab Control Sample	Total	Water	SW846 8260B	11H3467_P
11H3467-BSD1	Lab Control Sample Dup	Total	Water	SW846 8260B	11H3467_P
11H3467-MS1	Matrix Spike	Total	Water	SW846 8260B	11H3467_P
11H3467-MSD1	Matrix Spike Duplicate	Total	Water	SW846 8260B	11H3467_P
NUH1989-05 - RE1	OW-15	Total	Ground Water	SW846 8260B	11H3467_P
NUH1989-06 - RE1	OW-16	Total	Ground Water	SW846 8260B	11H3467_P
NUH1989-07 - RE1	OW-17	Total	Ground Water	SW846 8260B	11H3467_P
NUH1989-08 - RE1	MW-17R	Total	Ground Water	SW846 8260B	11H3467_P
NUH1989-09 - RE1	MW-18R	Total	Ground Water	SW846 8260B	11H3467_P
NUH1989-13 - RE1	MW-22D-R	Total	Ground Water	SW846 8260B	11H3467_P
NUH1989-16 - RE1	MW-29D	Total	Ground Water	SW846 8260B	11H3467_P
NUH1989-17 - RE1	MW-31D	Total	Ground Water	SW846 8260B	11H3467_P

Prep Batch: 11H3467_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H3467-BLK1	Method Blank	Total	Water	EPA 5030B	
11H3467-BS1	Lab Control Sample	Total	Water	EPA 5030B	
11H3467-BSD1	Lab Control Sample Dup	Total	Water	EPA 5030B	
11H3467-MS1	Matrix Spike	Total	Water	EPA 5030B	
11H3467-MSD1	Matrix Spike Duplicate	Total	Water	EPA 5030B	
NUH1989-05 - RE1	OW-15	Total	Ground Water	EPA 5030B	
NUH1989-06 - RE1	OW-16	Total	Ground Water	EPA 5030B	
NUH1989-07 - RE1	OW-17	Total	Ground Water	EPA 5030B	
NUH1989-08 - RE1	MW-17R	Total	Ground Water	EPA 5030B	

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GCMS Volatiles (Continued)

Prep Batch: 11H3467_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NUH1989-09 - RE1	MW-18R	Total	Ground Water	EPA 5030B	
NUH1989-13 - RE1	MW-22D-R	Total	Ground Water	EPA 5030B	
NUH1989-16 - RE1	MW-29D	Total	Ground Water	EPA 5030B	
NUH1989-17 - RE1	MW-31D	Total	Ground Water	EPA 5030B	

Prep Batch: 11H3784_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H3784-BLK1	Method Blank	Total	Water	EPA 5030B	
11H3784-BS1	Lab Control Sample	Total	Water	EPA 5030B	
11H3784-BSD1	Lab Control Sample Dup	Total	Water	EPA 5030B	
11H3784-MS1	Matrix Spike	Total	Water	EPA 5030B	
11H3784-MSD1	Matrix Spike Duplicate	Total	Water	EPA 5030B	
NUH1989-01	OW-5	Total	Ground Water	EPA 5030B	
NUH1989-02	OW-8	Total	Ground Water	EPA 5030B	
NUH1989-03	OW-10	Total	Ground Water	EPA 5030B	

Prep Batch: 11H4820_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H4820-BLK1	Method Blank	Total	Water	EPA 5030B	
11H4820-BS1	Lab Control Sample	Total	Water	EPA 5030B	
11H4820-BSD1	Lab Control Sample Dup	Total	Water	EPA 5030B	
11H4820-MS1	OW-12	Total	Water	EPA 5030B	
11H4820-MSD1	OW-12	Total	Water	EPA 5030B	
NUH1989-04	OW-12	Total	Ground Water	EPA 5030B	
NUH1989-09	MW-18R	Total	Ground Water	EPA 5030B	
NUH1989-10	MW-19R	Total	Ground Water	EPA 5030B	
NUH1989-11	MW-20	Total	Ground Water	EPA 5030B	
NUH1989-12	MW-21D	Total	Ground Water	EPA 5030B	
NUH1989-14	MW-23	Total	Ground Water	EPA 5030B	
NUH1989-15	MW-26I	Total	Ground Water	EPA 5030B	
NUH1989-18	MW-34I	Total	Ground Water	EPA 5030B	

GCMS Semivolatiles

Analysis Batch: 11H3375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H3375-BLK1	Method Blank	Total	Water	SW846 8270D SIM	11H3375_P
11H3375-BS1	Lab Control Sample	Total	Water	SW846 8270D SIM	11H3375_P
11H3375-BSD1	Lab Control Sample Dup	Total	Water	SW846 8270D SIM	11H3375_P
NUH1989-02	OW-8	Total	Ground Water	SW846 8270D SIM	11H3375_P
NUH1989-03	OW-10	Total	Ground Water	SW846 8270D SIM	11H3375_P
NUH1989-03 - RE1	OW-10	Total	Ground Water	SW846 8270D SIM	11H3375_P
NUH1989-04	OW-12	Total	Ground Water	SW846 8270D SIM	11H3375_P
NUH1989-04 - RE1	OW-12	Total	Ground Water	SW846 8270D SIM	11H3375_P
NUH1989-08	MW-17R	Total	Ground Water	SW846 8270D SIM	11H3375_P

DRAFT

GCMS Semivolatiles (Continued)

Analysis Batch: 11H3375 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NUH1989-08 - RE1	MW-17R	Total	Ground Water	SW846 8270D SIM	11H3375_P
NUH1989-09	MW-18R	Total	Ground Water	SW846 8270D SIM	11H3375_P
NUH1989-09 - RE1	MW-18R	Total	Ground Water	SW846 8270D SIM	11H3375_P
NUH1989-10	MW-19R	Total	Ground Water	SW846 8270D SIM	11H3375_P
NUH1989-11	MW-20	Total	Ground Water	SW846 8270D SIM	11H3375_P
NUH1989-12	MW-21D	Total	Ground Water	SW846 8270D SIM	11H3375_P
NUH1989-13	MW-22D-R	Total	Ground Water	SW846 8270D SIM	11H3375_P

Prep Batch: 11H3375_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H3375-BLK1	Method Blank	Total	Water	EPA 3510C	
11H3375-BS1	Lab Control Sample	Total	Water	EPA 3510C	
11H3375-BSD1	Lab Control Sample Dup	Total	Water	EPA 3510C	
NUH1989-02	OW-8	Total	Ground Water	EPA 3510C	
NUH1989-03	OW-10	Total	Ground Water	EPA 3510C	
NUH1989-03 - RE1	OW-10	Total	Ground Water	EPA 3510C	
NUH1989-04	OW-12	Total	Ground Water	EPA 3510C	
NUH1989-04 - RE1	OW-12	Total	Ground Water	EPA 3510C	
NUH1989-08	MW-17R	Total	Ground Water	EPA 3510C	
NUH1989-08 - RE1	MW-17R	Total	Ground Water	EPA 3510C	
NUH1989-09	MW-18R	Total	Ground Water	EPA 3510C	
NUH1989-09 - RE1	MW-18R	Total	Ground Water	EPA 3510C	
NUH1989-10	MW-19R	Total	Ground Water	EPA 3510C	
NUH1989-11	MW-20	Total	Ground Water	EPA 3510C	
NUH1989-12	MW-21D	Total	Ground Water	EPA 3510C	
NUH1989-13	MW-22D-R	Total	Ground Water	EPA 3510C	

DRAFT

Client Sample ID: OW-5

Date Collected: 08/11/11 10:30
Date Received: 08/13/11 08:00

Lab Sample ID: NUH1989-01
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11H3784_P	08/17/11 08:15	AJF	TAL NSH
Total	Analysis	SW846 8260B		1.00	U014736	08/17/11 18:10	AJF	TAL NSH

Client Sample ID: OW-8

Date Collected: 08/11/11 11:35
Date Received: 08/13/11 08:00

Lab Sample ID: NUH1989-02
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11H3784_P	08/17/11 08:15	AJF	TAL NSH
Total	Analysis	SW846 8260B		1.00	U014736	08/17/11 18:37	AJF	TAL NSH
Total	Prep	EPA 3510C		0.952	11H3375_P	08/15/11 08:05	AMJ	TAL NSH
Total	Analysis	SW846 8270D SIM		1.00	11H3375	08/20/11 20:16	CLJ	TAL NSH

Client Sample ID: OW-10

Date Collected: 08/11/11 12:30
Date Received: 08/13/11 08:00

Lab Sample ID: NUH1989-03
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11H3784_P	08/17/11 08:15	AJF	TAL NSH
Total	Analysis	SW846 8260B		1.00	U014736	08/17/11 19:04	AJF	TAL NSH
Total	Prep	EPA 3510C		0.952	11H3375_P	08/15/11 08:05	AMJ	TAL NSH
Total	Analysis	SW846 8270D SIM		1.00	11H3375	08/20/11 20:37	CLJ	TAL NSH
Total	Prep	EPA 3510C	RE1	0.952	11H3375_P	08/15/11 08:05	AMJ	TAL NSH
Total	Analysis	SW846 8270D SIM	RE1	50.0	11H3375	08/21/11 16:25	CLJ	TAL NSH

Client Sample ID: OW-12

Date Collected: 08/11/11 15:35
Date Received: 08/13/11 08:00

Lab Sample ID: NUH1989-04
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11H4820_P	08/17/11 20:52	AJF	TAL NSH
Total	Analysis	SW846 8260B		1.00	U014814	08/18/11 00:01	AJF	TAL NSH
Total	Prep	EPA 3510C		0.971	11H3375_P	08/15/11 08:05	AMJ	TAL NSH
Total	Analysis	SW846 8270D SIM		1.00	11H3375	08/20/11 20:57	CLJ	TAL NSH
Total	Prep	EPA 3510C	RE1	0.971	11H3375_P	08/15/11 08:05	AMJ	TAL NSH
Total	Analysis	SW846 8270D SIM	RE1	25.0	11H3375	08/21/11 19:10	CLJ	TAL NSH

Client Sample ID: OW-15

Date Collected: 08/11/11 13:56
Date Received: 08/13/11 08:00

Lab Sample ID: NUH1989-05
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B	RE1	1.00	11H3467_P	08/20/11 09:18	AJF	TAL NSH
Total	Analysis	SW846 8260B	RE1	1.00	U014926	08/20/11 13:21	AJF	TAL NSH

DRAFT

Client Sample ID: OW-16

Lab Sample ID: NUH1989-06

Date Collected: 08/11/11 14:29

Matrix: Ground Water

Date Received: 08/13/11 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B	RE1	1.00	11H3467_P	08/20/11 09:18	AJF	TAL NSH
Total	Analysis	SW846 8260B	RE1	1.00	U014926	08/20/11 13:48	AJF	TAL NSH

Client Sample ID: OW-17

Lab Sample ID: NUH1989-07

Date Collected: 08/11/11 13:14

Matrix: Ground Water

Date Received: 08/13/11 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B	RE1	1.00	11H3467_P	08/20/11 09:18	AJF	TAL NSH
Total	Analysis	SW846 8260B	RE1	1.00	U014926	08/20/11 14:15	AJF	TAL NSH

Client Sample ID: MW-17R

Lab Sample ID: NUH1989-08

Date Collected: 08/11/11 11:40

Matrix: Ground Water

Date Received: 08/13/11 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B	RE1	1.00	11H3467_P	08/20/11 09:18	AJF	TAL NSH
Total	Analysis	SW846 8260B	RE1	1.00	U014926	08/20/11 14:42	AJF	TAL NSH
Total	Prep	EPA 3510C		0.990	11H3375_P	08/15/11 08:05	AMJ	TAL NSH
Total	Analysis	SW846 8270D SIM		1.00	11H3375	08/20/11 21:17	CLJ	TAL NSH
Total	Prep	EPA 3510C	RE1	0.990	11H3375_P	08/15/11 08:05	AMJ	TAL NSH
Total	Analysis	SW846 8270D SIM	RE1	10.0	11H3375	08/21/11 17:48	CLJ	TAL NSH

Client Sample ID: MW-18R

Lab Sample ID: NUH1989-09

Date Collected: 08/11/11 10:25

Matrix: Ground Water

Date Received: 08/13/11 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11H4820_P	08/17/11 20:52	AJF	TAL NSH
Total	Analysis	SW846 8260B		1.00	U014814	08/18/11 02:17	AJF	TAL NSH
Total	Prep	EPA 5030B	RE1	1.00	11H3467_P	08/20/11 09:18	AJF	TAL NSH
Total	Analysis	SW846 8260B	RE1	10.0	U014926	08/20/11 19:12	AJF	TAL NSH
Total	Prep	EPA 3510C		1.00	11H3375_P	08/15/11 08:05	AMJ	TAL NSH
Total	Analysis	SW846 8270D SIM		1.00	11H3375	08/20/11 21:38	CLJ	TAL NSH
Total	Prep	EPA 3510C	RE1	1.00	11H3375_P	08/15/11 08:05	AMJ	TAL NSH
Total	Analysis	SW846 8270D SIM	RE1	50.0	11H3375	08/21/11 18:30	CLJ	TAL NSH

Client Sample ID: MW-19R

Lab Sample ID: NUH1989-10

Date Collected: 08/11/11 11:01

Matrix: Ground Water

Date Received: 08/13/11 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11H4820_P	08/17/11 20:52	AJF	TAL NSH
Total	Analysis	SW846 8260B		1.00	U014814	08/18/11 02:44	AJF	TAL NSH
Total	Prep	EPA 3510C		1.00	11H3375_P	08/15/11 08:05	AMJ	TAL NSH

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Lab Chronicle

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH1989

Client Sample ID: MW-19R
Lab Sample ID: NUH1989-10

Date Collected: 08/11/11 11:01
Matrix: Ground Water
Date Received: 08/13/11 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Analysis	SW846 8270D SIM		1.00	11H3375	08/20/11 21:58	CLJ	TAL NSH

Client Sample ID: MW-20
Lab Sample ID: NUH1989-11

Date Collected: 08/11/11 12:12
Matrix: Ground Water
Date Received: 08/13/11 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11H4820_P	08/17/11 20:52	AJF	TAL NSH
Total	Analysis	SW846 8260B		1.00	U014814	08/18/11 03:11	AJF	TAL NSH
Total	Prep	EPA 3510C		0.990	11H3375_P	08/15/11 08:30	AMJ	TAL NSH
Total	Analysis	SW846 8270D SIM		1.00	11H3375	08/20/11 22:18	CLJ	TAL NSH

Client Sample ID: MW-21D
Lab Sample ID: NUH1989-12

Date Collected: 08/11/11 12:55
Matrix: Ground Water
Date Received: 08/13/11 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11H4820_P	08/17/11 20:52	AJF	TAL NSH
Total	Analysis	SW846 8260B		1.00	U014814	08/18/11 03:38	AJF	TAL NSH
Total	Prep	EPA 3510C		0.952	11H3375_P	08/15/11 08:30	AMJ	TAL NSH
Total	Analysis	SW846 8270D SIM		1.00	11H3375	08/20/11 22:39	CLJ	TAL NSH

Client Sample ID: MW-22D-R
Lab Sample ID: NUH1989-13

Date Collected: 08/11/11 14:55
Matrix: Ground Water
Date Received: 08/13/11 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B	RE1	1.00	11H3467_P	08/20/11 09:18	AJF	TAL NSH
Total	Analysis	SW846 8260B	RE1	1.00	U014926	08/20/11 15:10	AJF	TAL NSH
Total	Prep	EPA 3510C		0.952	11H3375_P	08/15/11 08:30	AMJ	TAL NSH
Total	Analysis	SW846 8270D SIM		1.00	11H3375	08/20/11 23:00	CLJ	TAL NSH

Client Sample ID: MW-23
Lab Sample ID: NUH1989-14

Date Collected: 08/11/11 14:56
Matrix: Ground Water
Date Received: 08/13/11 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11H4820_P	08/17/11 20:52	AJF	TAL NSH
Total	Analysis	SW846 8260B		1.00	U014814	08/18/11 04:32	AJF	TAL NSH

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Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH1989

Client Sample ID: MW-26I

Lab Sample ID: NUH1989-15

Date Collected: 08/11/11 16:10
Matrix: Ground Water
Date Received: 08/13/11 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11H4820_P	08/17/11 20:52	AJF	TAL NSH
Total	Analysis	SW846 8260B		1.00	U014814	08/18/11 04:59	AJF	TAL NSH

Client Sample ID: MW-29D

Lab Sample ID: NUH1989-16

Date Collected: 08/11/11 13:50
Matrix: Ground Water
Date Received: 08/13/11 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B	RE1	1.00	11H3467_P	08/20/11 09:18	AJF	TAL NSH
Total	Analysis	SW846 8260B	RE1	1.00	U014926	08/20/11 15:37	AJF	TAL NSH

Client Sample ID: MW-31D

Lab Sample ID: NUH1989-17

Date Collected: 08/11/11 14:35
Matrix: Ground Water
Date Received: 08/13/11 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B	RE1	1.00	11H3467_P	08/20/11 09:18	AJF	TAL NSH
Total	Analysis	SW846 8260B	RE1	1.00	U014926	08/20/11 16:03	AJF	TAL NSH

Client Sample ID: MW-34I

Lab Sample ID: NUH1989-18

Date Collected: 08/11/11 16:03
Matrix: Ground Water
Date Received: 08/13/11 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11H4820_P	08/17/11 20:52	AJF	TAL NSH
Total	Analysis	SW846 8260B		1.00	U014814	08/18/11 06:20	AJF	TAL NSH

Laboratory References:
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

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Method Summary

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH1989

Method	Method Description	Protocol	Laboratory
SW846 8260B	Volatile Organic Compounds by EPA Method 8260B		TAL NSH
SW846 8270D SIM	Polyaromatic Hydrocarbons by EPA 8270D SIM		TAL NSH

Protocol References:

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

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Certification Summary

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH1989

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	A2LA	WY UST		453.07
TestAmerica Nashville	AIHA	IHLAP		100790
TestAmerica Nashville	Alabama	State Program	4	41150
TestAmerica Nashville	Alaska	Alaska UST	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas	State Program	6	88-0737
TestAmerica Nashville	CALA	CALA		3744
TestAmerica Nashville	California	NELAC	9	1168CA
TestAmerica Nashville	Colorado	State Program	8	N/A
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAC	4	E87358
TestAmerica Nashville	Illinois	NELAC	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAC	7	E-10229
TestAmerica Nashville	Kentucky	Kentucky UST	4	19
TestAmerica Nashville	Kentucky	State Program	4	90038
TestAmerica Nashville	Louisiana	NELAC	6	30613
TestAmerica Nashville	Louisiana	NELAC	6	LA100011
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAC	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana	MT DEQ UST	8	NA
TestAmerica Nashville	Nevada	State Program	9	TN00032
TestAmerica Nashville	New Hampshire	NELAC	1	2963
TestAmerica Nashville	New Jersey	NELAC	2	TN965
TestAmerica Nashville	New York	NELAC	2	11342
TestAmerica Nashville	North Carolina	North Carolina DENR	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio	OVAP	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAC	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAC	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAC	6	T104704077-09-TX
TestAmerica Nashville	USDA	USDA		S-48469
TestAmerica Nashville	Utah	NELAC	8	TAN
TestAmerica Nashville	Virginia	NELAC Secondary AB	3	460152
TestAmerica Nashville	Virginia	State Program	3	00323
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia	West Virginia DEP	3	219

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

DRAFT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECI

NUH1989

Cooler Received/Opened On 8/13/2011 @ 0800

1. Tracking # 7808 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 97460373

2. Temperature of rep. sample or temp blank when opened: 1.5 *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) _____

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

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) _____

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) _____

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) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...# _____

Without used on COC.

DRAFT

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville Division
2960 Foster Creighton
Nashville, TN 37204
Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

Shell Oil

Consultant Name: Groundwater & Environmental Services, Inc.
Address: 6500 NW 12th Ave, Suite 109
City/State/Zip: Ft. Lauderdale, FL 33309
Shell Project Mgr: Annette Dokken
Consultant Project Mgr: Mike Berzinsky

Consultant Telephone Number: (866) 565-7650 Fax No.: (866) 334-9883
Sampler Name: (Print) Jessica Sasser/Caitlin Feinsmith
Sampler Signature:

TA Account #: PO#:
Invoice To: GES, Inc.
Report To: Mike Berzinsky
Project Name: SHE-390
SAP #: #####
Incident #:
Site Address 390 S Powerline Rd
City, State, Zip Deerfield Beach, FL
Regulatory District (CA)

Sample ID or Field ID	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Methanol	Sodium Bisulfate	HCl (Blue Label)	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass (Yellow Label)	HNO_3 (Red Label)	None (Black Label)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify)	Analyze For: BTEX/MTBE (8260B)	BTEX/MTBE/Oxygenates (8260B)	PAH (8270C)	RUSH TAT (Pre-Schedule) *	TAT request (in Bus. Days)	Fax Results (yes or no)	Due Date of Report	
OW-5	8/11/11	10:30	3	X					3						X						X							-1
OW-8	8/11/11	11:55	4	X					3					1	X						X		X					-2
OW-10	8/11/11	12:30	4	X					3					1	X							X	X					-3
OW-12	8/11/11	15:35	4	X					3					1	X							X	X					-4
OW-15	8/11/11	13:56	3	X					3						X						X							-5
OW-16	8/11/11	14:29	3	X					3						X						X							-6
OW-17	8/11/11	13:14	3	X					3						X						X							-7
MW-17R	8/11/11	11:40	4	X					3					1	X						X		X					-8
MW-18R	8/11/11	10:25	4	X					3					1	X						X		X					-9
MW-19R	8/11/11	11:01	4	X					3					1	X						X		X					-10

Ref:
Dep:
Date: 29Jun11
Wgt: 10.0 LBS
DV: 0.00
SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00
Svcs: PRIORITY OVERNIGHT Master 4810 3534 7348
TRCK: 4810 3534 7808

Comments/Special Instructions:
FDEP Rates: BTEX/MTBE (8260B) $60.67 each; BTEX/MTBE/OXY (8260B) $60.67 each; PAH (8270C) $128.89 each

Relinquished by:	Date	Time	Received by:	Date	Time
Jessica Sasser	8/12/11	8:00		8/12/11	1145
Relinquished by:	Date	Time	Received by:	Date	Time
	8/12/11	1145		8-13-11	0800
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time

Laboratory Comments:
Temperature Upon Receipt: 1.5
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
QC Deliverables (please circle one)
Level 2 Level 3 Level 4 Other

* It will be the responsibility of ExxonMobil or its consultant to notify the TestAmerica Project Manager by phone or fax that a rush sample will be submitted.
TA Project Manager: Date:

P. 1 of 2

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

Shell Oil

Consultant Name: Groundwater & Environmental Services, Inc.
Address: 6500 NW 12th Ave, Suite 109
City/State/Zip: Ft. Lauderdale, FL 33309
Shell Project Mgr: Annette Dokken
Consultant Project Mgr: Mike Berzinsky

Consultant Telephone Number: (866) 565-7650 Fax No.: (866) 334-9883
Sampler Name: (Print) Jessica Sadler / Caitlin Farnsworth
Sampler Signature:

TA Account #: PO#:
Invoice To: GES, Inc.
Report To: Mike Berzinsky
Project Name: SHE-390
SAP #: #####
Incident #:
Site Address 390 S Powerline Rd
City, State, Zip Deerfield Beach, FL
Regulatory District (CA)

Sample ID or Field ID	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Methanol	Sodium Bisulfate	HCl (Blue Label)	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass (Yellow Label)	HNO_3 (Red Label)	None (Black Label)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify)	Analyze For: BTEX/MTBE (8260B)	BTEX/MTBE/Oxygenates (8260B)	PAH (8270C)	RUSH TAT (Pre-Scheduled) *	TAT request (in Bus. Days)	Fax Results (yes or no)	Due Date of Report	
MW-20	8/11/11	12:12	4	X					3					1	X						X		X					-11
MW-21D	8/11/11	12:55	4	X					3					1	X							X	X					-12
MW-22D-R	8/11/11	14:55	4	X					3					1	X						X		X					-13
MW-23	8/11/11	14:56	3	X					3						X						X							-14
MW-26I	8/11/11	16:10	3	X					3						X							X						-15
MW-29D	8/11/11	13:50	3	X					3						X							X						-16
MW-31D	8/11/11	14:35	3	X					3						X						X							-17
MW-34I	8/11/11	16:03	3	X					3						X						X							-18

Comments/Special Instructions:
FDEP Rates: BTEX/MTBE (8260B) $60.67 each; BTEX/MTBE/OXY (8260B) $60.67 each; PAH (8270C) $128.89 each

Laboratory Comments:
Temperature Upon Receipt: 1.5
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
QC Deliverables (please circle one)
Level 2 Level 3 Level 4 Other

Relinquished by:	Date	Time	Received by:	Date	Time
	8/12/11	5:00		8/12/11	1145
Relinquished by:	Date	Time	Received by:	Date	Time
	8/12/11	1145		8-13-11	0800
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time

* It will be the responsibility of ExxonMobil or its consultant to notify the TestAmerica Project Manager by phone or fax that a rush sample will be submitted.
TA Project Manager: Date:

P. 2 of 2

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Road
Nashville, TN 37204
Tel: 800-765-0980

TestAmerica Job ID: NUH2683
Client Project/Site: SAP 100700
Client Project Description: 390 S Powerline Rd, Deerfield Beach

For:
GES (Fort Lauderdale) / SHELL (13652)
6500 N.W. 12th Avenue, Suite 109
Ft. Lauderdale, FL 33309

Attn: Michael Berzinsky

Authorized for release by:
08/25/2011 11:06:34 AM

Leah R. Klingensmith
Senior Project Management
leah.klingensmith@testamericainc.com

DRAFT

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

Results relate only to the items tested and the sample(s) as received by the laboratory. 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.

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DRAFT

Sample Summary

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH2683

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NUH2683-01	MW-39	Ground Water	08/18/11 09:52	08/19/11 07:40
NUH2683-02	MW-40	Ground Water	08/18/11 11:10	08/19/11 07:40
NUH2683-03	MW-41	Ground Water	08/18/11 12:00	08/19/11 07:40

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH2683

Qualifiers

GCMS Volatiles

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

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH2683

Client Sample ID: MW-39
Date Collected: 08/18/11 09:52
Date Received: 08/19/11 07:40

Lab Sample ID: NUH2683-01
Matrix: Ground Water

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-Amyl Methyl Ether	<0.220	U	1.00	0.220	ug/L		08/21/11 08:43	08/21/11 18:28	1.00
Benzene	**2.98**		1.00	0.270	ug/L		08/21/11 08:43	08/21/11 18:28	1.00
Ethylbenzene	**92.8**		1.00	0.320	ug/L		08/21/11 08:43	08/21/11 18:28	1.00
Ethyl tert-Butyl Ether	<0.250	U	1.00	0.250	ug/L		08/21/11 08:43	08/21/11 18:28	1.00
Toluene	**5.88**		1.00	0.330	ug/L		08/21/11 08:43	08/21/11 18:28	1.00
Diisopropyl Ether	<0.370	U	1.00	0.370	ug/L		08/21/11 08:43	08/21/11 18:28	1.00
Methyl tert-Butyl Ether	<0.320	U	1.00	0.320	ug/L		08/21/11 08:43	08/21/11 18:28	1.00
Tertiary Butyl Alcohol	<2.00	U	20.0	2.00	ug/L		08/21/11 08:43	08/21/11 18:28	1.00
Xylenes, total	**258**		3.00	0.870	ug/L		08/21/11 08:43	08/21/11 18:28	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*94*		*63 - 140*	*08/21/11 08:43*	*08/21/11 18:28*	*1.00*
Dibromofluoromethane	*98*		*73 - 131*	*08/21/11 08:43*	*08/21/11 18:28*	*1.00*
Toluene-d8	*98*		*80 - 120*	*08/21/11 08:43*	*08/21/11 18:28*	*1.00*
4-Bromofluorobenzene	*103*		*79 - 125*	*08/21/11 08:43*	*08/21/11 18:28*	*1.00*

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH2683

Client Sample ID: MW-40
Date Collected: 08/18/11 11:10
Date Received: 08/19/11 07:40

Lab Sample ID: NUH2683-02
Matrix: Ground Water

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-Amyl Methyl Ether	<0.220	U	1.00	0.220	ug/L		08/21/11 08:43	08/21/11 18:53	1.00
Benzene	**160**		1.00	0.270	ug/L		08/21/11 08:43	08/21/11 18:53	1.00
Ethylbenzene	**127**		1.00	0.320	ug/L		08/21/11 08:43	08/21/11 18:53	1.00
Ethyl tert-Butyl Ether	**5.93**		1.00	0.250	ug/L		08/21/11 08:43	08/21/11 18:53	1.00
Toluene	**5.98**		1.00	0.330	ug/L		08/21/11 08:43	08/21/11 18:53	1.00
Diisopropyl Ether	**0.650**	**I**	1.00	0.370	ug/L		08/21/11 08:43	08/21/11 18:53	1.00
Methyl tert-Butyl Ether	**2.48**		1.00	0.320	ug/L		08/21/11 08:43	08/21/11 18:53	1.00
Tertiary Butyl Alcohol	**240**		20.0	2.00	ug/L		08/21/11 08:43	08/21/11 18:53	1.00
Xylenes, total	**333**		3.00	0.870	ug/L		08/21/11 08:43	08/21/11 18:53	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*93*		*63 - 140*	*08/21/11 08:43*	*08/21/11 18:53*	*1.00*
Dibromofluoromethane	*100*		*73 - 131*	*08/21/11 08:43*	*08/21/11 18:53*	*1.00*
Toluene-d8	*99*		*80 - 120*	*08/21/11 08:43*	*08/21/11 18:53*	*1.00*
4-Bromofluorobenzene	*103*		*79 - 125*	*08/21/11 08:43*	*08/21/11 18:53*	*1.00*

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH2683

Client Sample ID: MW-41
Date Collected: 08/18/11 12:00
Date Received: 08/19/11 07:40

Lab Sample ID: NUH2683-03
Matrix: Ground Water

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-Amyl Methyl Ether	<0.220	U	1.00	0.220	ug/L		08/21/11 08:43	08/21/11 19:19	1.00
Benzene	<0.270	U	1.00	0.270	ug/L		08/21/11 08:43	08/21/11 19:19	1.00
Ethylbenzene	<0.320	U	1.00	0.320	ug/L		08/21/11 08:43	08/21/11 19:19	1.00
Ethyl tert-Butyl Ether	<0.250	U	1.00	0.250	ug/L		08/21/11 08:43	08/21/11 19:19	1.00
Toluene	<0.330	U	1.00	0.330	ug/L		08/21/11 08:43	08/21/11 19:19	1.00
Diisopropyl Ether	<0.370	U	1.00	0.370	ug/L		08/21/11 08:43	08/21/11 19:19	1.00
Methyl tert-Butyl Ether	<0.320	U	1.00	0.320	ug/L		08/21/11 08:43	08/21/11 19:19	1.00
Tertiary Butyl Alcohol	<2.00	U	20.0	2.00	ug/L		08/21/11 08:43	08/21/11 19:19	1.00
Xylenes, total	<0.870	U	3.00	0.870	ug/L		08/21/11 08:43	08/21/11 19:19	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*92*		*63 - 140*	*08/21/11 08:43*	*08/21/11 19:19*	*1.00*
Dibromofluoromethane	*101*		*73 - 131*	*08/21/11 08:43*	*08/21/11 19:19*	*1.00*
Toluene-d8	*98*		*80 - 120*	*08/21/11 08:43*	*08/21/11 19:19*	*1.00*
4-Bromofluorobenzene	*101*		*79 - 125*	*08/21/11 08:43*	*08/21/11 19:19*	*1.00*

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH2683

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Lab Sample ID: 11H4753-BLK1
Matrix: Water
Analysis Batch: U015066

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11H4753_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-Amyl Methyl Ether	<0.220	U	1.00	0.220	ug/L		08/21/11 08:43	08/21/11 10:50	1.00
Benzene	<0.270	U	1.00	0.270	ug/L		08/21/11 08:43	08/21/11 10:50	1.00
Ethylbenzene	<0.320	U	1.00	0.320	ug/L		08/21/11 08:43	08/21/11 10:50	1.00
Ethyl tert-Butyl Ether	<0.250	U	1.00	0.250	ug/L		08/21/11 08:43	08/21/11 10:50	1.00
Toluene	<0.330	U	1.00	0.330	ug/L		08/21/11 08:43	08/21/11 10:50	1.00
Diisopropyl Ether	<0.370	U	1.00	0.370	ug/L		08/21/11 08:43	08/21/11 10:50	1.00
Methyl tert-Butyl Ether	<0.320	U	1.00	0.320	ug/L		08/21/11 08:43	08/21/11 10:50	1.00
Tertiary Butyl Alcohol	<2.00	U	20.0	2.00	ug/L		08/21/11 08:43	08/21/11 10:50	1.00
Xylenes, total	<0.870	U	3.00	0.870	ug/L		08/21/11 08:43	08/21/11 10:50	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*92*		*63 - 140*	*08/21/11 08:43*	*08/21/11 10:50*	*1.00*
Dibromofluoromethane	*102*		*73 - 131*	*08/21/11 08:43*	*08/21/11 10:50*	*1.00*
Toluene-d8	*99*		*80 - 120*	*08/21/11 08:43*	*08/21/11 10:50*	*1.00*
4-Bromofluorobenzene	*103*		*79 - 125*	*08/21/11 08:43*	*08/21/11 10:50*	*1.00*

Lab Sample ID: 11H4753-BS1
Matrix: Water
Analysis Batch: U015066

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11H4753_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Tert-Amyl Methyl Ether	50.0	56.3		ug/L		113	70 - 133
Benzene	50.0	49.2		ug/L		98	80 - 121
Ethylbenzene	50.0	48.2		ug/L		96	78 - 133
Ethyl tert-Butyl Ether	50.0	53.2		ug/L		106	68 - 138
Toluene	50.0	48.2		ug/L		96	78 - 125
Diisopropyl Ether	50.0	46.8		ug/L		94	63 - 136
Methyl tert-Butyl Ether	50.0	45.8		ug/L		92	76 - 120
Tertiary Butyl Alcohol	500	485		ug/L		97	60 - 140
Xylenes, total	150	144		ug/L		96	78 - 134

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*95*		*63 - 140*
Dibromofluoromethane	*100*		*73 - 131*
Toluene-d8	*97*		*80 - 120*
4-Bromofluorobenzene	*103*		*79 - 125*

Lab Sample ID: 11H4753-BSD1
Matrix: Water
Analysis Batch: U015066

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 11H4753_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Tert-Amyl Methyl Ether	50.0	57.1		ug/L		114	70 - 133	1	16
Benzene	50.0	49.7		ug/L		99	80 - 121	0.9	12
Ethylbenzene	50.0	49.6		ug/L		99	78 - 133	3	12
Ethyl tert-Butyl Ether	50.0	53.7		ug/L		107	68 - 138	0.9	16
Toluene	50.0	49.5		ug/L		99	78 - 125	3	35
Diisopropyl Ether	50.0	47.7		ug/L		95	63 - 136	2	32
Methyl tert-Butyl Ether	50.0	46.3		ug/L		93	76 - 120	1	32

DRAFT

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11H4753-BSD1
Matrix: Water
Analysis Batch: U015066

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 11H4753_P

Analyte			Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Tertiary Butyl Alcohol			500	506		ug/L		101	60 - 140	4	30
Xylenes, total			150	149		ug/L		99	78 - 134	3	18

Surrogate	*LCS Dup % Recovery*	*LCS Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*94*		*63 - 140*
Dibromofluoromethane	*98*		*73 - 131*
Toluene-d8	*97*		*80 - 120*
4-Bromofluorobenzene	*103*		*79 - 125*

Lab Sample ID: 11H4753-MS1
Matrix: Water
Analysis Batch: U015066

Client Sample ID: Matrix Spike
Prep Type: Total
Prep Batch: 11H4753_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits		
Tert-Amyl Methyl Ether	<0.220		50.0	59.6		ug/L		119	69 - 139		
Benzene	<0.270		50.0	56.4		ug/L		113	65 - 151		
Ethylbenzene	<0.320		50.0	56.0		ug/L		112	68 - 157		
Ethyl tert-Butyl Ether	<0.250		50.0	56.8		ug/L		114	68 - 139		
Toluene	<0.330		50.0	55.9		ug/L		112	61 - 153		
Diisopropyl Ether	<0.370		50.0	53.7		ug/L		107	59 - 145		
Methyl tert-Butyl Ether	<0.320		50.0	50.8		ug/L		102	56 - 152		
Tertiary Butyl Alcohol	<2.00		500	536		ug/L		107	14 - 200		
Xylenes, total	<0.870		150	167		ug/L		111	68 - 158		

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
1,2-Dichloroethane-d4	*96*		*63 - 140*
Dibromofluoromethane	*100*		*73 - 131*
Toluene-d8	*98*		*80 - 120*
4-Bromofluorobenzene	*103*		*79 - 125*

Lab Sample ID: 11H4753-MSD1
Matrix: Water
Analysis Batch: U015066

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 11H4753_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Tert-Amyl Methyl Ether	<0.220		50.0	61.3		ug/L		123	69 - 139	3	16
Benzene	<0.270		50.0	56.0		ug/L		112	65 - 151	0.8	12
Ethylbenzene	<0.320		50.0	56.4		ug/L		113	68 - 157	0.7	12
Ethyl tert-Butyl Ether	<0.250		50.0	57.2		ug/L		114	68 - 139	0.8	16
Toluene	<0.330		50.0	56.6		ug/L		113	61 - 153	1	35
Diisopropyl Ether	<0.370		50.0	53.2		ug/L		106	59 - 145	1	32
Methyl tert-Butyl Ether	<0.320		50.0	50.5		ug/L		101	56 - 152	0.5	32
Tertiary Butyl Alcohol	<2.00		500	642		ug/L		128	14 - 200	18	30
Xylenes, total	<0.870		150	169		ug/L		113	68 - 158	1	18

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*94*		*63 - 140*
Dibromofluoromethane	*100*		*73 - 131*
Toluene-d8	*99*		*80 - 120*

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH2683

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11H4753-MSD1
Matrix: Water
Analysis Batch: U015066

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 11H4753_P

Surrogate	Matrix Spike Dup % Recovery	Matrix Spike Dup Qualifier	Limits
4-Bromofluorobenzene	104		79 - 125

DRAFT

QC Association Summary

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH2683

GCMS Volatiles

Analysis Batch: U015066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H4753-BLK1	Method Blank	Total	Water	SW846 8260B	11H4753_P
11H4753-BS1	Lab Control Sample	Total	Water	SW846 8260B	11H4753_P
11H4753-BSD1	Lab Control Sample Dup	Total	Water	SW846 8260B	11H4753_P
11H4753-MS1	Matrix Spike	Total	Water	SW846 8260B	11H4753_P
11H4753-MSD1	Matrix Spike Duplicate	Total	Water	SW846 8260B	11H4753_P
NUH2683-01	MW-39	Total	Ground Water	SW846 8260B	11H4753_P
NUH2683-02	MW-40	Total	Ground Water	SW846 8260B	11H4753_P
NUH2683-03	MW-41	Total	Ground Water	SW846 8260B	11H4753_P

Prep Batch: 11H4753_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H4753-BLK1	Method Blank	Total	Water	EPA 5030B	
11H4753-BS1	Lab Control Sample	Total	Water	EPA 5030B	
11H4753-BSD1	Lab Control Sample Dup	Total	Water	EPA 5030B	
11H4753-MS1	Matrix Spike	Total	Water	EPA 5030B	
11H4753-MSD1	Matrix Spike Duplicate	Total	Water	EPA 5030B	
NUH2683-01	MW-39	Total	Ground Water	EPA 5030B	
NUH2683-02	MW-40	Total	Ground Water	EPA 5030B	
NUH2683-03	MW-41	Total	Ground Water	EPA 5030B	

DRAFT

Lab Chronicle

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH2683

Client Sample ID: MW-39

Date Collected: 08/18/11 09:52
Date Received: 08/19/11 07:40

Lab Sample ID: NUH2683-01

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11H4753_P	08/21/11 08:43	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U015066	08/21/11 18:28	WMC	TAL NSH

Client Sample ID: MW-40

Date Collected: 08/18/11 11:10
Date Received: 08/19/11 07:40

Lab Sample ID: NUH2683-02

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11H4753_P	08/21/11 08:43	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U015066	08/21/11 18:53	WMC	TAL NSH

Client Sample ID: MW-41

Date Collected: 08/18/11 12:00
Date Received: 08/19/11 07:40

Lab Sample ID: NUH2683-03

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11H4753_P	08/21/11 08:43	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U015066	08/21/11 19:19	WMC	TAL NSH

Laboratory References:
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

DRAFT

Method Summary

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH2683

Method	Method Description	Protocol	Laboratory
SW846 8260B	Volatile Organic Compounds by EPA Method 8260B		TAL NSH

Protocol References:

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

DRAFT

Certification Summary

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUH2683

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	A2LA	WY UST		453.07
TestAmerica Nashville	AIHA	IHLAP		100790
TestAmerica Nashville	Alabama	State Program	4	41150
TestAmerica Nashville	Alaska	Alaska UST	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas	State Program	6	88-0737
TestAmerica Nashville	CALA	CALA		3744
TestAmerica Nashville	California	NELAC	9	1168CA
TestAmerica Nashville	Colorado	State Program	8	N/A
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAC	4	E87358
TestAmerica Nashville	Illinois	NELAC	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAC	7	E-10229
TestAmerica Nashville	Kentucky	Kentucky UST	4	19
TestAmerica Nashville	Kentucky	State Program	4	90038
TestAmerica Nashville	Louisiana	NELAC	6	30613
TestAmerica Nashville	Louisiana	NELAC	6	LA100011
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAC	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana	MT DEQ UST	8	NA
TestAmerica Nashville	Nevada	State Program	9	TN00032
TestAmerica Nashville	New Hampshire	NELAC	1	2963
TestAmerica Nashville	New Jersey	NELAC	2	TN965
TestAmerica Nashville	New York	NELAC	2	11342
TestAmerica Nashville	North Carolina	North Carolina DENR	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio	OVAP	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAC	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAC	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAC	6	T104704077-09-TX
TestAmerica Nashville	USDA	USDA		S-48469
TestAmerica Nashville	Utah	NELAC	8	TAN
TestAmerica Nashville	Virginia	NELAC Secondary AB	3	460152
TestAmerica Nashville	Virginia	State Program	3	00323
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia	West Virginia DEP	3	219

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEI

NUH2683

Cooler Received/Opened On 8/19/2011 @ 0740

1. Tracking # 7749 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 14740456

2. Temperature of rep. sample or temp blank when opened: 1.7 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: 0

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) _____

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

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) _____

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) _____

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) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...#_____

BIS = Broken in shipment

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville Division
2960 Foster Creighton
Nashville, TN 37204
Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

NUH2683

08/26/11 23 59

Consultant Name: Groundwater & Environmental Services, Inc
Address: 6500 NW 12th Ave, Suite 109
City/State/Zip: Ft. Lauderdale, FL 33309
Consultant Project Mgr: Mike Berzinsky
Consultant Telephone Number: (866) 565-7650 Fax No.: (866) 334-9883
Sampler Name: (Print)
Sampler Signature:

TA Account #: PO#:
Invoice To: GES, Inc.
Report To: Mike Berzinsky
Project Name: FCE-1801/SHE-390
SAP #:
Incident #:
Site Address 390 S Powerline Rd
City, State, Zip Deerfield Beach, FL
Regulatory District (CA)

Sample ID or Field ID	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Methanol	Sodium Bisulfate	HCl (Blue Label)	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass(Yellow Label)	HNO_3 (Red Label)	None (Black Label)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify)	Analyze For: BTEX/MTBE/Oxygenates (8260B)	RUSH TAT (Pre-Scheduled) *	TAT request (in Bus. Days)	Fax Results (yes or no)	Due Date of Report
MW-39	8/18/11	9:52	3	X					3						X						X		5		-1
MW-40	↓	11:10	3	X					3						X						X		5		-2
MW-41	✓	12:00	3	X					3						X						X		5		-3

Ref:
Dep:
Date: 29Jun11
Wgt: 10.0 LBS
DV: 0.00

SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00

Svcs: PRIORITY OVERNIGHT Master 4810 3534 7348
TRCK 4810 3534 7749

Comments/Special Instructions:
FDEP Rates:BTEX/MTBE/OXY (8260B) $60.67 each

Relinquished by:	Date	Time	Received by:	Date	Time
	8-18-11	15:2		8-18 11	15:2
Relinquished by:	Date	Time	Received by:	Date	Time
				8-19-11	0746
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time

Laboratory Comments:
Temperature Upon Receipt: 1.7
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
QC Deliverables (please circle one)
Level 2 Level 3 Level 4 Other

* It will be the responsibility of ExxonMobil or its consultant to notify the TestAmerica Project Manager by phone or fax that a rush sample will be submitted.
TA Project Manager: Date:

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TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Road
Nashville, TN 37204
Tel: 800-765-0980

TestAmerica Job ID: NUI1811
Client Project/Site: SAP 100700
Client Project Description: 390 S Powerline Rd, Deerfield Beach

For:
GES (Fort Lauderdale) / SHELL (13652)
6500 N.W. 12th Avenue, Suite 109
Ft. Lauderdale, FL 33309

Attn: Michael Berzinsky

Authorized for release by:
09/27/2011 11:13:02 AM

Leah R. Klingensmith
Senior Project Management
leah.klingensmith@testamericainc.com

DRAFT

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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Results relate only to the items tested and the sample(s) as received by the laboratory. 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.

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DRAFT

Sample Summary

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUI1811

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NUI1811-01	OW-15	Ground Water	09/14/11 13:11	09/15/11 08:35
NUI1811-02	OW-16	Ground Water	09/14/11 10:29	09/15/11 08:35
NUI1811-03	MW-22D-R	Ground Water	09/14/11 09:55	09/15/11 08:35
NUI1811-04	MW-24	Ground Water	09/14/11 10:59	09/15/11 08:35

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUI1811

Qualifiers

GCMS Volatiles

Qualifier	Qualifier Description
U	The compound was analyzed for but not detected
CF7	Result may be elevated due to carry over from previously analyzed sample.
I	The reported value is between the laboratory method detection limit and method reporting limit.

GCMS Semivolatiles

Qualifier	Qualifier Description
U	The compound was analyzed for but not detected
MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike.

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUI1811

Client Sample ID: OW-15
Date Collected: 09/14/11 13:11
Date Received: 09/15/11 08:35

Lab Sample ID: NUI1811-01
Matrix: Ground Water

Method: SW846 8270D SIM - Polyaromatic Hydrocarbons by EPA 8270D SIM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0481	U	0.0962	0.0481	ug/L		09/16/11 12:45	09/22/11 18:16	1.00
Acenaphthylene	<0.0481	U	0.0962	0.0481	ug/L		09/16/11 12:45	09/22/11 18:16	1.00
Anthracene	<0.0481	U	0.0962	0.0481	ug/L		09/16/11 12:45	09/22/11 18:16	1.00
Benzo (a) anthracene	<0.0481	U	0.0962	0.0481	ug/L		09/16/11 12:45	09/22/11 18:16	1.00
Benzo (a) pyrene	<0.0481	U	0.0962	0.0481	ug/L		09/16/11 12:45	09/22/11 18:16	1.00
Benzo (b) fluoranthene	<0.0481	U	0.0962	0.0481	ug/L		09/16/11 12:45	09/22/11 18:16	1.00
Benzo (g,h,i) perylene	<0.0481	U	0.0962	0.0481	ug/L		09/16/11 12:45	09/22/11 18:16	1.00
Benzo (k) fluoranthene	<0.0481	U	0.0962	0.0481	ug/L		09/16/11 12:45	09/22/11 18:16	1.00
Chrysene	<0.0481	U	0.0962	0.0481	ug/L		09/16/11 12:45	09/22/11 18:16	1.00
Dibenz (a,h) anthracene	<0.0481	U	0.0962	0.0481	ug/L		09/16/11 12:45	09/22/11 18:16	1.00
Fluoranthene	<0.0481	U	0.0962	0.0481	ug/L		09/16/11 12:45	09/22/11 18:16	1.00
Fluorene	<0.0481	U	0.0962	0.0481	ug/L		09/16/11 12:45	09/22/11 18:16	1.00
Indeno (1,2,3-cd) pyrene	<0.0481	U	0.0962	0.0481	ug/L		09/16/11 12:45	09/22/11 18:16	1.00
1-Methylnaphthalene	<0.0481	U	0.0962	0.0481	ug/L		09/16/11 12:45	09/22/11 18:16	1.00
2-Methylnaphthalene	<0.0481	U	0.0962	0.0481	ug/L		09/16/11 12:45	09/22/11 18:16	1.00
Naphthalene	<0.0481	U	0.0962	0.0481	ug/L		09/16/11 12:45	09/22/11 18:16	1.00
Phenanthrene	<0.0481	U	0.0962	0.0481	ug/L		09/16/11 12:45	09/22/11 18:16	1.00
Pyrene	<0.0481	U	0.0962	0.0481	ug/L		09/16/11 12:45	09/22/11 18:16	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*58*		*27 - 120*	*09/16/11 12:45*	*09/22/11 18:16*	*1.00*
2-Fluorobiphenyl	*63*		*29 - 120*	*09/16/11 12:45*	*09/22/11 18:16*	*1.00*
Terphenyl-d14	*88*		*13 - 120*	*09/16/11 12:45*	*09/22/11 18:16*	*1.00*

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUI1811

Client Sample ID: OW-16
Date Collected: 09/14/11 10:29
Date Received: 09/15/11 08:35

Lab Sample ID: NUI1811-02
Matrix: Ground Water

Method: SW846 8270D SIM - Polyaromatic Hydrocarbons by EPA 8270D SIM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0513	U	0.103	0.0513	ug/L		09/16/11 12:45	09/22/11 18:36	1.00
Acenaphthylene	<0.0513	U	0.103	0.0513	ug/L		09/16/11 12:45	09/22/11 18:36	1.00
Anthracene	<0.0513	U	0.103	0.0513	ug/L		09/16/11 12:45	09/22/11 18:36	1.00
Benzo (a) anthracene	<0.0513	U	0.103	0.0513	ug/L		09/16/11 12:45	09/22/11 18:36	1.00
Benzo (a) pyrene	<0.0513	U	0.103	0.0513	ug/L		09/16/11 12:45	09/22/11 18:36	1.00
Benzo (b) fluoranthene	<0.0513	U	0.103	0.0513	ug/L		09/16/11 12:45	09/22/11 18:36	1.00
Benzo (g,h,i) perylene	<0.0513	U	0.103	0.0513	ug/L		09/16/11 12:45	09/22/11 18:36	1.00
Benzo (k) fluoranthene	<0.0513	U	0.103	0.0513	ug/L		09/16/11 12:45	09/22/11 18:36	1.00
Chrysene	<0.0513	U	0.103	0.0513	ug/L		09/16/11 12:45	09/22/11 18:36	1.00
Dibenz (a,h) anthracene	<0.0513	U	0.103	0.0513	ug/L		09/16/11 12:45	09/22/11 18:36	1.00
Fluoranthene	<0.0513	U	0.103	0.0513	ug/L		09/16/11 12:45	09/22/11 18:36	1.00
Fluorene	<0.0513	U	0.103	0.0513	ug/L		09/16/11 12:45	09/22/11 18:36	1.00
Indeno (1,2,3-cd) pyrene	<0.0513	U	0.103	0.0513	ug/L		09/16/11 12:45	09/22/11 18:36	1.00
1-Methylnaphthalene	<0.0513	U	0.103	0.0513	ug/L		09/16/11 12:45	09/22/11 18:36	1.00
2-Methylnaphthalene	<0.0513	U	0.103	0.0513	ug/L		09/16/11 12:45	09/22/11 18:36	1.00
Naphthalene	<0.0513	U	0.103	0.0513	ug/L		09/16/11 12:45	09/22/11 18:36	1.00
Phenanthrene	<0.0513	U	0.103	0.0513	ug/L		09/16/11 12:45	09/22/11 18:36	1.00
Pyrene	<0.0513	U	0.103	0.0513	ug/L		09/16/11 12:45	09/22/11 18:36	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*61*		*27 - 120*	*09/16/11 12:45*	*09/22/11 18:36*	*1.00*
2-Fluorobiphenyl	*69*		*29 - 120*	*09/16/11 12:45*	*09/22/11 18:36*	*1.00*
Terphenyl-d14	*99*		*13 - 120*	*09/16/11 12:45*	*09/22/11 18:36*	*1.00*

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUI1811

Client Sample ID: MW-22D-R
Date Collected: 09/14/11 09:55
Date Received: 09/15/11 08:35

Lab Sample ID: NUI1811-03
Matrix: Ground Water

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.800**	**CF7 I**	1.00	0.500	ug/L		09/15/11 22:54	09/16/11 04:00	1.00
Ethylbenzene	<0.500	U	1.00	0.500	ug/L		09/15/11 22:54	09/16/11 04:00	1.00
Methyl tert-Butyl Ether	<0.500	U	1.00	0.500	ug/L		09/15/11 22:54	09/16/11 04:00	1.00
Toluene	**0.550**	**CF7 I**	1.00	0.500	ug/L		09/15/11 22:54	09/16/11 04:00	1.00
Xylenes, total	**1.77**	**CF7 I**	3.00	1.50	ug/L		09/15/11 22:54	09/16/11 04:00	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*89*		*70 - 130*	*09/15/11 22:54*	*09/16/11 04:00*	*1.00*
Dibromofluoromethane	*101*		*70 - 130*	*09/15/11 22:54*	*09/16/11 04:00*	*1.00*
Toluene-d8	*95*		*70 - 130*	*09/15/11 22:54*	*09/16/11 04:00*	*1.00*
4-Bromofluorobenzene	*105*		*70 - 130*	*09/15/11 22:54*	*09/16/11 04:00*	*1.00*

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUI1811

Client Sample ID: MW-24
Date Collected: 09/14/11 10:59
Date Received: 09/15/11 08:35

Lab Sample ID: NUI1811-04
Matrix: Ground Water

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500	U	1.00	0.500	ug/L		09/15/11 22:54	09/16/11 04:25	1.00
Ethylbenzene	<0.500	U	1.00	0.500	ug/L		09/15/11 22:54	09/16/11 04:25	1.00
Methyl tert-Butyl Ether	<0.500	U	1.00	0.500	ug/L		09/15/11 22:54	09/16/11 04:25	1.00
Toluene	<0.500	U	1.00	0.500	ug/L		09/15/11 22:54	09/16/11 04:25	1.00
Xylenes, total	<1.50	U	3.00	1.50	ug/L		09/15/11 22:54	09/16/11 04:25	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*90*		*70 - 130*	*09/15/11 22:54*	*09/16/11 04:25*	*1.00*
Dibromofluoromethane	*101*		*70 - 130*	*09/15/11 22:54*	*09/16/11 04:25*	*1.00*
Toluene-d8	*95*		*70 - 130*	*09/15/11 22:54*	*09/16/11 04:25*	*1.00*
4-Bromofluorobenzene	*106*		*70 - 130*	*09/15/11 22:54*	*09/16/11 04:25*	*1.00*

Method: SW846 8270D SIM - Polyaromatic Hydrocarbons by EPA 8270D SIM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 18:57	1.00
Acenaphthylene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 18:57	1.00
Anthracene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 18:57	1.00
Benzo (a) anthracene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 18:57	1.00
Benzo (a) pyrene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 18:57	1.00
Benzo (b) fluoranthene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 18:57	1.00
Benzo (g,h,i) perylene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 18:57	1.00
Benzo (k) fluoranthene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 18:57	1.00
Chrysene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 18:57	1.00
Dibenz (a,h) anthracene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 18:57	1.00
Fluoranthene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 18:57	1.00
Fluorene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 18:57	1.00
Indeno (1,2,3-cd) pyrene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 18:57	1.00
1-Methylnaphthalene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 18:57	1.00
2-Methylnaphthalene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 18:57	1.00
Naphthalene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 18:57	1.00
Phenanthrene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 18:57	1.00
Pyrene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 18:57	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*64*		*27 - 120*	*09/16/11 12:45*	*09/22/11 18:57*	*1.00*
2-Fluorobiphenyl	*67*		*29 - 120*	*09/16/11 12:45*	*09/22/11 18:57*	*1.00*
Terphenyl-d14	*99*		*13 - 120*	*09/16/11 12:45*	*09/22/11 18:57*	*1.00*

DRAFT

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Lab Sample ID: 11I2943-BLK1
Matrix: Water
Analysis Batch: U016433

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11I2943_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500	U	1.00	0.500	ug/L		09/15/11 22:54	09/16/11 00:36	1.00
Ethylbenzene	<0.500	U	1.00	0.500	ug/L		09/15/11 22:54	09/16/11 00:36	1.00
Methyl tert-Butyl Ether	<0.500	U	1.00	0.500	ug/L		09/15/11 22:54	09/16/11 00:36	1.00
Toluene	<0.500	U	1.00	0.500	ug/L		09/15/11 22:54	09/16/11 00:36	1.00
Xylenes, total	<1.50	U	3.00	1.50	ug/L		09/15/11 22:54	09/16/11 00:36	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*90*		*70 - 130*	*09/15/11 22:54*	*09/16/11 00:36*	*1.00*
Dibromofluoromethane	*102*		*70 - 130*	*09/15/11 22:54*	*09/16/11 00:36*	*1.00*
Toluene-d8	*97*		*70 - 130*	*09/15/11 22:54*	*09/16/11 00:36*	*1.00*
4-Bromofluorobenzene	*105*		*70 - 130*	*09/15/11 22:54*	*09/16/11 00:36*	*1.00*

Lab Sample ID: 11I2943-BS1
Matrix: Water
Analysis Batch: U016433

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11I2943_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Benzene	50.0	57.9		ug/L		116	80 - 121
Ethylbenzene	50.0	53.6		ug/L		107	80 - 130
Methyl tert-Butyl Ether	50.0	49.6		ug/L		99	72 - 133
Toluene	50.0	54.8		ug/L		110	80 - 126
Xylenes, total	150	157		ug/L		105	80 - 132

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*91*		*70 - 130*
Dibromofluoromethane	*100*		*70 - 130*
Toluene-d8	*96*		*70 - 130*
4-Bromofluorobenzene	*105*		*70 - 130*

Lab Sample ID: 11I2943-MS1
Matrix: Water
Analysis Batch: U016433

Client Sample ID: Matrix Spike
Prep Type: Total
Prep Batch: 11I2943_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Benzene	469		500	1070		ug/L		121	75 - 133
Ethylbenzene	<5.00		500	578		ug/L		116	79 - 139
Methyl tert-Butyl Ether	8.30		500	506		ug/L		100	66 - 141
Toluene	55.5		500	605		ug/L		110	75 - 136
Xylenes, total	1630		1500	3220		ug/L		106	74 - 141

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
1,2-Dichloroethane-d4	*91*		*70 - 130*
Dibromofluoromethane	*101*		*70 - 130*
Toluene-d8	*95*		*70 - 130*
4-Bromofluorobenzene	*103*		*70 - 130*

DRAFT

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11I2943-MSD1
Matrix: Water
Analysis Batch: U016433

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 11I2943_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Benzene	469		500	1040		ug/L		115	75 - 133	3	17
Ethylbenzene	<5.00		500	572		ug/L		114	79 - 139	1	15
Methyl tert-Butyl Ether	8.30		500	503		ug/L		99	66 - 141	0.8	16
Toluene	55.5		500	602		ug/L		109	75 - 136	0.5	15
Xylenes, total	1630		1500	3110		ug/L		98	74 - 141	4	15

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*91*		*70 - 130*
Dibromofluoromethane	*99*		*70 - 130*
Toluene-d8	*95*		*70 - 130*
4-Bromofluorobenzene	*104*		*70 - 130*

Method: SW846 8270D SIM - Polyaromatic Hydrocarbons by EPA 8270D SIM

Lab Sample ID: 11I3061-BLK1
Matrix: Water
Analysis Batch: 11I3061

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11I3061_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 17:56	1.00
Acenaphthylene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 17:56	1.00
Anthracene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 17:56	1.00
Benzo (a) anthracene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 17:56	1.00
Benzo (a) pyrene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 17:56	1.00
Benzo (b) fluoranthene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 17:56	1.00
Benzo (g,h,i) perylene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 17:56	1.00
Benzo (k) fluoranthene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 17:56	1.00
Chrysene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 17:56	1.00
Dibenz (a,h) anthracene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 17:56	1.00
Fluoranthene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 17:56	1.00
Fluorene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 17:56	1.00
Indeno (1,2,3-cd) pyrene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 17:56	1.00
1-Methylnaphthalene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 17:56	1.00
2-Methylnaphthalene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 17:56	1.00
Naphthalene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 17:56	1.00
Phenanthrene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 17:56	1.00
Pyrene	<0.0500	U	0.100	0.0500	ug/L		09/16/11 12:45	09/22/11 17:56	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*64*		*27 - 120*	*09/16/11 12:45*	*09/22/11 17:56*	*1.00*
2-Fluorobiphenyl	*64*		*29 - 120*	*09/16/11 12:45*	*09/22/11 17:56*	*1.00*
Terphenyl-d14	*92*		*13 - 120*	*09/16/11 12:45*	*09/22/11 17:56*	*1.00*

Lab Sample ID: 11I3061-BS1
Matrix: Water
Analysis Batch: 11I3061

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11I3061_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	1.00	0.890	MNR1	ug/L		89	46 - 120

DRAFT

Method: SW846 8270D SIM - Polyaromatic Hydrocarbons by EPA 8270D SIM (Continued)

Lab Sample ID: 11I3061-BS1
Matrix: Water
Analysis Batch: 11I3061

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11I3061_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthylene	1.00	0.870	MNR1	ug/L		87	48 - 120
Anthracene	1.00	0.920	MNR1	ug/L		92	58 - 130
Benzo (a) anthracene	1.00	0.940	MNR1	ug/L		94	57 - 120
Benzo (a) pyrene	1.00	0.850	MNR1	ug/L		85	57 - 124
Benzo (b) fluoranthene	1.00	0.940	MNR1	ug/L		94	51 - 125
Benzo (g,h,i) perylene	1.00	0.870	MNR1	ug/L		87	51 - 123
Benzo (k) fluoranthene	1.00	1.01	MNR1	ug/L		101	51 - 120
Chrysene	1.00	0.920	MNR1	ug/L		92	55 - 120
Dibenz (a,h) anthracene	1.00	0.710	MNR1	ug/L		71	50 - 125
Fluoranthene	1.00	0.940	MNR1	ug/L		94	56 - 120
Fluorene	1.00	0.920	MNR1	ug/L		92	52 - 120
Indeno (1,2,3-cd) pyrene	1.00	0.820	MNR1	ug/L		82	54 - 125
1-Methylnaphthalene	1.00	0.690	MNR1	ug/L		69	36 - 120
2-Methylnaphthalene	1.00	0.800	MNR1	ug/L		80	31 - 120
Naphthalene	1.00	0.900	MNR1	ug/L		90	37 - 120
Phenanthrene	1.00	0.940	MNR1	ug/L		94	56 - 120
Pyrene	1.00	0.990	MNR1	ug/L		99	53 - 122

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*77*		*27 - 120*
2-Fluorobiphenyl	*72*		*29 - 120*
Terphenyl-d14	*100*		*13 - 120*

DRAFT

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUI1811

GCMS Volatiles

Analysis Batch: U016433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11I2943-BLK1	Method Blank	Total	Water	SW846 8260B	11I2943_P
11I2943-BS1	Lab Control Sample	Total	Water	SW846 8260B	11I2943_P
11I2943-MS1	Matrix Spike	Total	Water	SW846 8260B	11I2943_P
11I2943-MSD1	Matrix Spike Duplicate	Total	Water	SW846 8260B	11I2943_P
NUI1811-03	MW-22D-R	Total	Ground Water	SW846 8260B	11I2943_P
NUI1811-04	MW-24	Total	Ground Water	SW846 8260B	11I2943_P

Prep Batch: 11I2943_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11I2943-BLK1	Method Blank	Total	Water	EPA 5030B	
11I2943-BS1	Lab Control Sample	Total	Water	EPA 5030B	
11I2943-MS1	Matrix Spike	Total	Water	EPA 5030B	
11I2943-MSD1	Matrix Spike Duplicate	Total	Water	EPA 5030B	
NUI1811-03	MW-22D-R	Total	Ground Water	EPA 5030B	
NUI1811-04	MW-24	Total	Ground Water	EPA 5030B	

GCMS Semivolatiles

Analysis Batch: 11I3061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11I3061-BLK1	Method Blank	Total	Water	SW846 8270D SIM	11I3061_P
11I3061-BS1	Lab Control Sample	Total	Water	SW846 8270D SIM	11I3061_P
NUI1811-01	OW-15	Total	Ground Water	SW846 8270D SIM	11I3061_P
NUI1811-02	OW-16	Total	Ground Water	SW846 8270D SIM	11I3061_P
NUI1811-04	MW-24	Total	Ground Water	SW846 8270D SIM	11I3061_P

Prep Batch: 11I3061_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11I3061-BLK1	Method Blank	Total	Water	EPA 3510C	
11I3061-BS1	Lab Control Sample	Total	Water	EPA 3510C	
NUI1811-01	OW-15	Total	Ground Water	EPA 3510C	
NUI1811-02	OW-16	Total	Ground Water	EPA 3510C	
NUI1811-04	MW-24	Total	Ground Water	EPA 3510C	

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Lab Chronicle

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUI1811

Client Sample ID: OW-15

Lab Sample ID: NUI1811-01

Date Collected: 09/14/11 13:11

Matrix: Ground Water

Date Received: 09/15/11 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3510C		0.962	11I3061_P	09/16/11 12:45	MSR	TAL NSH
Total	Analysis	SW846 8270D SIM		1.00	11I3061	09/22/11 18:16	CLJ	TAL NSH

Client Sample ID: OW-16

Lab Sample ID: NUI1811-02

Date Collected: 09/14/11 10:29

Matrix: Ground Water

Date Received: 09/15/11 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3510C		1.03	11I3061_P	09/16/11 12:45	MSR	TAL NSH
Total	Analysis	SW846 8270D SIM		1.00	11I3061	09/22/11 18:36	CLJ	TAL NSH

Client Sample ID: MW-22D-R

Lab Sample ID: NUI1811-03

Date Collected: 09/14/11 09:55

Matrix: Ground Water

Date Received: 09/15/11 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11I2943_P	09/15/11 22:54	AAN	TAL NSH
Total	Analysis	SW846 8260B		1.00	U016433	09/16/11 04:00	WMC	TAL NSH

Client Sample ID: MW-24

Lab Sample ID: NUI1811-04

Date Collected: 09/14/11 10:59

Matrix: Ground Water

Date Received: 09/15/11 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11I2943_P	09/15/11 22:54	AAN	TAL NSH
Total	Analysis	SW846 8260B		1.00	U016433	09/16/11 04:25	WMC	TAL NSH
Total	Prep	EPA 3510C		1.00	11I3061_P	09/16/11 12:45	MSR	TAL NSH
Total	Analysis	SW846 8270D SIM		1.00	11I3061	09/22/11 18:57	CLJ	TAL NSH

Laboratory References:
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

DRAFT

Method Summary

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUI1811

Method	Method Description	Protocol	Laboratory
SW846 8260B	Volatile Organic Compounds by EPA Method 8260B		TAL NSH
SW846 8270D SIM	Polyaromatic Hydrocarbons by EPA 8270D SIM		TAL NSH

Protocol References:

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

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Certification Summary

Client: GES (Fort Lauderdale) / SHELL (13652)
Project/Site: SAP 100700

TestAmerica Job ID: NUI1811

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	A2LA	WY UST		453.07
TestAmerica Nashville	AIHA	IHLAP		100790
TestAmerica Nashville	Alabama	State Program	4	41150
TestAmerica Nashville	Alaska	Alaska UST	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas	State Program	6	88-0737
TestAmerica Nashville	CALA	CALA		3744
TestAmerica Nashville	California	NELAC	9	1168CA
TestAmerica Nashville	Colorado	State Program	8	N/A
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAC	4	E87358
TestAmerica Nashville	Illinois	NELAC	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAC	7	E-10229
TestAmerica Nashville	Kentucky	Kentucky UST	4	19
TestAmerica Nashville	Kentucky	State Program	4	90038
TestAmerica Nashville	Louisiana	NELAC	6	30613
TestAmerica Nashville	Louisiana	NELAC	6	LA100011
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAC	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana	MT DEQ UST	8	NA
TestAmerica Nashville	Nevada	State Program	9	TN00032
TestAmerica Nashville	New Hampshire	NELAC	1	2963
TestAmerica Nashville	New Jersey	NELAC	2	TN965
TestAmerica Nashville	New York	NELAC	2	11342
TestAmerica Nashville	North Carolina	North Carolina DENR	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio	OVAP	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAC	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAC	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAC	6	T104704077-09-TX
TestAmerica Nashville	USDA	USDA		S-48469
TestAmerica Nashville	Utah	NELAC	8	TAN
TestAmerica Nashville	Virginia	NELAC Secondary AB	3	460152
TestAmerica Nashville	Virginia	State Program	3	00323
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia	West Virginia DEP	3	219

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

DRAFT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER REC

NUI1811

Cooler Received/Opened On 9/15/2011 @0835

1. Tracking # 2019 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 14740456

2. Temperature of rep. sample or temp blank when opened: 4.7 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: 0

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) _____

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

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) _____

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) _____

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) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...# _____

DRAFT

BIS = Broken in shipment
Cooler Receipt Form.doc

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

Shell Oil

Consultant Name: Groundwater & Environmental Services, Inc.
Address: 6500 NW 12th Ave, Suite 109
City/State/Zip: Ft. Lauderdale, FL 33309
Shell Project Mgr: Annette Dokken
Consultant Project Mgr: Mike Berzinsky

Consultant Telephone Number: (866) 565-7650
Fax No.: (866) 334-9883
Sampler Name: (Print)
Sampler Signature:

TA Account #: PO#:
Invoice To: GES, Inc.
Report To: Mike Berzinsky
Project Name: SHE-390
SAP #: 100700
Incident #:
Site Address 390 S Powerline Rd
City, State, Zip Deerfield Beach, FL
Regulatory District (CA)

Sample ID or Field ID	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Methanol	Sodium Bisulfate	HCl (Blue Label)	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass(Yellow Label)	HNO_3 (Red Label)	None (Black Label)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify)	Analyze For: PAH (8270C)	BTEX/MTBE (8260B)	RUSH TAT (Pre-Schedule) *	TAT request (in Bus. Days)	Fax Results (yes or no)	Due Date of Report
OW-15	9/14/11	13:41	2	X										2	X						X					
OW-16	9/14/11	10:24	2	X										2	X						X					
MW-22D-R	9/14/11	9:55	3	X					3						X							X				
MW-24	9/14/11	10:51	5	X					3					2	X						X	X				

NUI1811
09/29/11 23:59

Comments/Special Instructions:
FDEP Rates: PAH (8270C) $128.89 each, BTEX/MTBE (8260B) $60.67 each.

Relinquished by:	Date	Time	Received by:	Date	Time
	9/14/11	15:00		9-14-11	1500
Relinquished by:	Date	Time	Received by:	Date	Time
	9-14-11	1800		9-15-11	0835
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time

Laboratory Comments:
Temperature Upon Receipt: 4.7
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
QC Deliverables (please circle one)
Level 2 Level 3 Level 4 Other

* It will be the responsibility of ExxonMobil or its consultant to notify the TestAmerica Project Manager by phone or fax that a rush sample will be submitted.
TA Project Manager: Date:

Ref:
Dep:
Date: 25Aug11
Wgt: 10.0 LBS
DV:
0.00
Svcs: PRIORITY OVERNIGHT Master 4810 3538 1799
TRCK: 4810 3538 2019

SHIPPING:	0.00
SPECIAL:	0.00
HANDLING:	0.00
TOTAL:	0.00

APPENDIX G

Disposal Manifests

DRAFT

FCC environmental

523 N. Sam Houston Parkway East, Suite 400, Houston, TX 77060

SPECIAL NOTES

SERVICE ORDER

NUMBER 172710

PAGE OF

CALL TYPE | PROBLEM CODE | ORDER ORIGIN

CUSTOMER CONTACT

PHONE NUMBER

SITE NUMBER NAME AND ADDRESS

5255550

SES / Shell
3905 Powerline Rd
Deerfield Bch FL 33442

PRIORITY

CALL WAS TAKEN ON AT BY

P.O. NUMBER

ROUTE ASSIGNED TECH

PROBLEM SYNOPSIS, AS REPORTED

M/A NUMBER PROMISE DATE, TIME

VEHICLE NO.	TRAILER NO.	UPTIME UNIT NO.	TT	TM	ST	ARRIVE DATE	ARRIVE TIME	CLOSE DATE	CLOSE TIME	JOB COMPLETE
941256		509278	3	5	4	9-9-11	836	9-9-11	903	YES NO

PART / DESCRIPTION	U/M	QUANTITY	HM	SHIPPING DESCRIPTION	SERIAL # GLYCOL	SERIAL # pH	# CONT BRIX	# CONT SNIFFER	TYPE C-D-T
SOL-Soil		2		Soil contaminated with Petroleum Hydrocarbon					
SOL-PCW		2	X	UN1203 Gasoline Mixture, 3, PGII ERG# 128					

Reuse Qualification Statement

By signing this document, I hereby certify that I understand the used FCC Environmental, LLC degreasing fluid (i.e. Mineral Spirits, petroleum naphtha) returned to FCC Environmental, LLC for inclusion in the FCC Environmental, LLC Reuse Program will be utilized as an effective substitute for chemical product. For the purpose of qualifying to participate in the Program, I further certify that any used degreasing fluid so returned to FCC Environmental, LLC has not been mixed with hazardous waste or other objectionable substances. All constituents that may be present in the degreasing fluid are contaminants resulting from, and incidental to, normal use of the solvent as a degreaser or cleaner. I have reviewed our physical facilities, administrative practices, and operational procedures and based on this review do willing make this true, accurate and complete certification.

Reuse Solvent QA & QC

Yes	No		Yes	No	
☐	☐	Used solvent passed visual inspection	☐	☐	Light assembly is in good working order
☐	☐	Used solvent has no unusual odor	☐	☐	Lid is unobstructed
☐	☐	Parts Cleaner is clean (front/back)	☐	☐	Parts Cleaner is properly grounded
☐	☐	Fusible link operational			

Rep Initials _____

Authorization Signature

I agree to pay for the above services and/or products and to be bound by the terms and conditions set forth above and on the reverse side of this document.

Caitlin Farnsworth (w/GES) on behalf 9-9-11

PRINT CUSTOMER NAME CUSTOMER SIGNATURE DATE

099136

_____ Initial if Conditionally Exempt Small Quantity Generator as defined in 40 CFR 261.5

_____ Initial if Do-it-yourself collection center

Generator EPA ID# _____

The GENERATOR hereby certifies that the material collected from the GENERATOR'S facility by FCC Environmental, LLC does not contain any PCB's a defined in 40 CFR 761 and is not hazardous waste or been mixed with a listed or characteristic hazardous waste as defined in 40 CFR 261. If the materi collected is a used oil as defined in 40 CFR part 279, the GENERATOR certifies that the total halogen content is less than 1,000 ppm, or the GENERATO hereby certifies that the rebuttable waste presumption under 40 CFR Part 279 has been rebutted. The GENERATOR will be responsible for any and all cos including, but not limited to, proper disposal, testing, and transportation if the material contains PCB's or is determined to be a hazardous waste. I certify tha to the best of my knowledge, the information presented herein is correct and accurate, and I am authorized to sign on behalf of the GENERATOR

Shipping Declaration:

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition fo transportation according to the applicable regulations of the Department of Transportation.

Transporter Information:

FCC Environmental, LLC
523 N. Sam Houston Parkway East, Suite 400 US DOT ID#: 1688621
Houston, TX 77060 EPA ID#: TXR000078094

EMERGENCY CONTACT CHEMTREC (800) 424-9300

9-9-11

DRIVER SIGNATURE / DATE

Designated Facility
1260 N.E. 48th Street
Pompano Beach, FL 33064
(800) 235-0189, Ext 1
EPA ID#: FLD984262410

9/9/11

RECEIVED AT PLANT / DATE

FILE

LF 070 Rev B

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S/D # 178710

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	CESAC	1	800 235 0159	FCC 299845

5. Generator's Name and Mailing Address
Shell Pipeline Rd
350 S Pipeline Rd
Deerfield Bch FL

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name
FCC Environmental LLC

U.S. EPA ID Number
TXR000070894

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
FCC Environmental LLC
12PONE 16th ST
Pompano Bch FL 33064

U.S. EPA ID Number
FLD984202410

Facility's Phone: 954-785-2320

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Soil contaminated with Petroleum Hydrocarbon	002	DM	1,200	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
WO# 299845

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Carlos Reynosa-Ruiz
Signature
Month: 9 Day: 9 Year: 11

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: Richard Rivera
Signature
Month: 9 Day: 9 Year: 11

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: Kellie Roberts
Signature
Month Day Year

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COPY

CONTAINS HAZARDOUS MATERIALS

MEMORANDUM is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, not a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

S/D 1/8/10

Shipper's No. _____

Carrier FCC Environmental LLC SCAC _____ Carrier's No. _____

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations;

at _____, date _____ from _____

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO:	FROM:
Consignee FCC Environmental LLC	Shipper Shell
Street 1280 NE 48th ST.	Street 390 S Powerline Rd
Destination Pompano Bch FL Zip 33064	Origin Deerfield Bch FL Zip 33442
Route	

Delivering Carrier	Vehicle Number	U.S. DOT Hazmat Reg. No.

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
002	X		UN1203, Gasoline Mixture, 3, P.G. II ERG# 128	3	11	100	G	
			WO# 299845					

Remit COD to:
Address:
City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT: $ 21

TOTAL CHARGES: $

COD FEE: Prepaid ☐ Collect ☐ $

FREIGHT CHARGES: ☐ Prepaid ☐ Collect

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

PLACARDS REQUIRED

PLACARDS SUPPLIED ☐ BY SHIPPER ☐ BY CARRIER

DRIVER'S SIGNATURE:

SHIPPER: Caitlin Farnsworth (w/GES)
PER: (on behalf of Motiva) DATE: 9/9/11

CARRIER: FCC Environmental
PER: Tchaly Leandre DATE: 9-9-11

EMERGENCY RESPONSE TELEPHONE NUMBER:

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

CONTAINS HAZARDOUS MATERIALS

CONTAINS HAZARDOUS MATERIALS 3

DRAFT

1836LSAR

ECOTECH
ENVIRONMENTAL SERVICES, INC.

November 12, 2015

BROWARD ENVIRONMENTAL PROTECTION DEPARTMENT PPRAOD
2015 NOV 23 PM 5:01

Mr. John J. Moore
Broward County
Environmental Protection and Growth Management Department
1 North University Drive, Suite 203
Plantation, Florida 33324

Re: Limited Site Assessment Report
First Coast Energy Store #1836
1011 S. Powerline Rd.
Deerfield Beach, Broward County, Florida
FDEP Facility ID #06/9800891

Dear Mr. Moore:

Ecotech Environmental Services, Inc. (Ecotech) was contracted by First Coast Energy, LLP (FCE) to perform Site Assessment (SA) activities at the First Coast Energy (FCE) Store #1836. The subject property is located at 1011 South Powerline Road, Broward County, Florida and identified by the Florida Department of Environmental Protection (FDEP) Facility ID #06/9800891. A Site Plan is included as **Figure 1**. This Report was prepared to summarize groundwater site assessment activities completed post spill bucket upgrade activities within the UST field, to assess the groundwater onsite. The Spill Bucket Closure Assessment Report review letter is included in **Attachment A**.

Background

On March 9, 2015 Ecotech observed Universal Petroleum Services Incorporated (UPSI) during upgrade activities. Upon arrival at the facility, Ecotech personnel observed the following:

- A 7-foot x 3-foot' rectangle was saw-cut in concrete around each USTs fill and vapor bucket. Gravel was excavated down to approximately 3-feet below land surface (bls) during the upgrade activities at each excavation to accommodate the new hardware. The new fill buckets are double walled EMCO #1004-317S. The new vapor buckets are double walled EMCO #1004-317A.
- The existing fill material around the fill buckets were mostly pea gravel, which exhibited some elevated OVA responses above 10 parts per million (ppm) during the March 9, 2015 field event.
- Punctures to both UST #3 and UST #5's fill ports were reported during the upgrade activities. As a result, a Discharge Report Form (DRF) was submitted on March 10, 2015.
- Impacted soil was removed from the excavation and allowed to land farm on the concrete surface pavement for over 24-hours. The soil was OVA screened and confirmed below 10 ppm before its return to the substrate.

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- Soil samples were collected at each UST, between each fill and vapor bucket at 2-3' bls from UST #1, UST #2, UST #3, UST #4, and UST #5 and were analyzed for BTEX/MTBE, PAHs, and TRPH/FLPRO analysis.

The soil laboratory analytical results for the samples collected from UST #1 (2-3'), UST #2 (2-3'), UST #3 (2-3'), UST #4 (2-3'), and UST #5 (2-3') on March 9, 2015 were below Direct Exposure Residential Soil Cleanup Target Levels (SCTLs) for both the parameters analyzed and benzo(a)pyrene equivalents. Although the soil analytical results were below SCTLs, UST #4 (2-3') indicated soil analytical results above leachability for groundwater criteria. Based on the soil analytical data observed and closure review letter, limited groundwater assessment was required in the vicinity of the UST field area.

Monitoring Well Installation

Following upgrade activities to the UST field, on June 29, 2015, Ecotech began site assessment activities. Ecotech oversaw the installation of five monitoring wells (MW-1 through MW-5) by Earth Tech Drilling, a licensed drilling contractor, installed monitoring wells MW-1 through MW-5. Lithologic Soil Boring and Well Construction Logs were recorded at each well installation location.

The screening was conducted in accordance with the headspace technique outlined in Chapter 62-770.200(19), F.A.C. Soil samples were collected and field-screened with an organic vapor analyzer (OVA). Field activities were conducted in general accordance with FDEP Standard Operating Procedures (SOP) and industry accepted practices. Copies of the FDEP Boring Logs, Field Instrument Calibration Logs, and Well Completion Reports are included in **Attachment B.** A summary of the OVA/PID soil screening data collected on June 29, 2015 can be located on the soil boring and well construction logs in **Attachment B**.

On September 18, 2015, Ecotech oversaw the installation of four additional monitoring wells (MW-6, MW-7, MW-8 and MW-9).

On October 30, 2015, Ecotech oversaw the installation of three additional monitoring wells (MW-10, MW-11, and MW-12).

Each of the 2" diameter, Schedule 40 PVC monitoring wells were installed to 12' bls, screened from 2-12' bls.

Groundwater Sampling Activities

Field activities were conducted in general accordance with FDEP Standard Operating Procedures (SOP) and industry accepted practices. Groundwater monitoring tasks were conducted in general accordance with the DEP SOP 001/01 FS 2200 Groundwater Sampling Protocol. The depth-to water measurements were gauged and the measurements were utilized to calculate the groundwater elevation and groundwater flow direction. The groundwater samples were placed on ice in preparation for shipment to Advanced Environmental Laboratories, Inc. (AEL) of Miramar, Florida (Certification No. E82535) for analysis. Chapter 62-777 Florida Administrative Code (F.A.C.) provides Natural Attenuation Default Concentrations (NADCs) and Groundwater Cleanup Target Levels (GCTLs) as evaluation criteria for dissolved chemicals of concern in groundwater.

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On July 2, 2015, Ecotech personnel mobilized to the subject site to collect groundwater samples from MW-1 through MW-5. A review of the July 2, 2015 laboratory analytical data indicated the following:

- Dissolved-phase hydrocarbon concentrations exceeded GCTLs but were below NADCs in MW-1 and MW-2.
- Dissolved phase hydrocarbon concentrations did not exceed GCTLs in the remaining monitoring wells sampled on July 2, 2015.
- Additional horizontal groundwater assessment was required in the vicinity of MW-1 and MW-2.

On July 30, 2015, Ecotech personnel gauged the depth-to-water (DTW) and top of casing (TOC) measurements of monitoring wells MW-1 through MW-5.

On September 22, 2015, Ecotech personnel mobilized to the subject site for the purpose of obtaining groundwater samples and DTW and TOC measurements from MW-6 through MW-9. A review of the September 22, 2015 laboratory analytical data indicated the following:

- Dissolved-phase hydrocarbon concentrations exceeded GCTLs but were below NADCs in monitoring wells MW-1, MW-6 and MW-9.
- Dissolved phase hydrocarbon concentrations did not exceed GCTLs in the remaining monitoring wells sampled on September 22, 2015.

On November 3, 2015, Ecotech personnel mobilized to the subject site to collect groundwater samples and DTW and TOC measurements from MW-10, MW-11, and MW-12. A review of the November 3, 2015 laboratory analytical data indicated the following:

- Dissolved phase hydrocarbon concentrations did not exceed GCTLs or NADCs in the monitoring wells sampled on November 3, 2015.

The DTW measurements, TOC measurements, and calculated groundwater elevation information are summarized on **Table 1.** The Groundwater Contour Elevation Maps, summarizing the elevation data obtained on July 2, July 30, September 22, and November 3, 2015 are illustrated on **Figure 2A** through **Figure 2D** and appears to flow generally toward the north. The groundwater laboratory analytical results from the July 2, September 22, and November 3, 2015, groundwater sampling events are summarized on **Table 2** and **Table 3**, and illustrated on **Figure 3**. The groundwater laboratory analytical report is included as **Attachment C**. Copies of the FDEP Groundwater Sampling Logs and Field Instrument Calibration Logs are included in **Attachment D**.

A South Florida Water Management District Well Survey, documenting permitted wells within a 0.5 mile radius of the subject site is included in **Attachment E**.

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Summary

Ecotech, on behalf of FCE, summarizes the following based on the groundwater analytical data presented herein:

- The interpreted groundwater flow direction on July 2, July 30, September 22, and November 3, 2015 were generally toward the north.
- Dissolved-phase hydrocarbon concentrations exceeded GCTLs but were below NADCs in MW-1, MW-2, MW-6, and MW-9 for benzene sampled on July 2, September 22, and November 3, 2015.
- Dissolved phase hydrocarbon concentrations did not exceed GCTLs for the parameters analyzed in the remaining monitoring wells sampled on July 2, September 22, and November 3, 2015.

Conclusions

- Dissolved-phase hydrocarbon concentrations have been horizontally defined onsite.
- Due to the dissolved phase hydrocarbon concentrations observed below NADCs, additional vertical delineation of groundwater is not required.
- Previously observed soil impacts were removed from the spill bucket excavation and allowed to land farm on the concrete surface pavement for over 24-hours and then returned back into the substrate. Soil assessment results are detailed in the Fill Bucket & Vapor Bucket Closure / Upgrade Report submitted in March 2015, and included in **Attachment F.**

Recommendations

Based on the groundwater analytical results reported herein, Ecotech on behalf of our client FCE recommends the site for a Natural Attenuation Monitoring (NAM) Plan. Ecotech recommends semiannual groundwater sampling of nine monitoring wells MW-1, MW-2, MW-3, MW-6, MW-7, MW-8, MW-9, MW-11, and MW-12 for BTEX/MTBE.

Sincerely,
Ecotech Environmental Services, Inc.

Paul Brackin
Geologist

Irene M. Donaldson
Project Manager

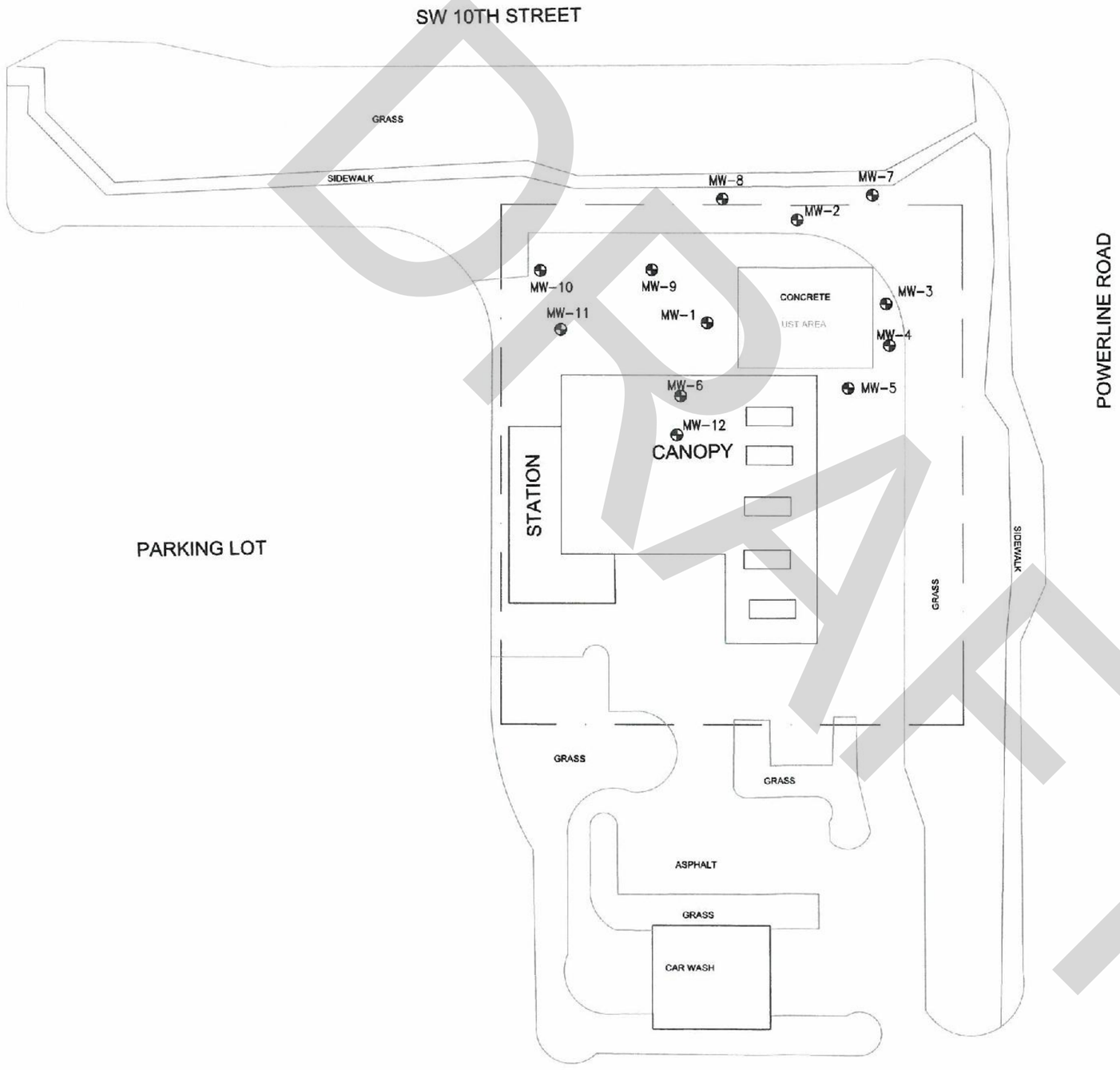
"I, Timothy L. Dehen, P.G. #1222, certify that I currently hold an active license in the state of Florida and I am competent through education or experience to provide the engineering service contained in this report. I further certify, that in my professional judgment, this report meets the requirements of Section 62-770.700, and was prepared by me or under my responsible charge. Moreover, I certify that Ecotech Environmental Services, Inc. holds an active Geology Business License #689 to provide this geologic consulting service."

Timothy L. Dehen, P.G.
Florida License No. 1222
Date: 11/13/15

DRAFT

FIGURES

DRAFT



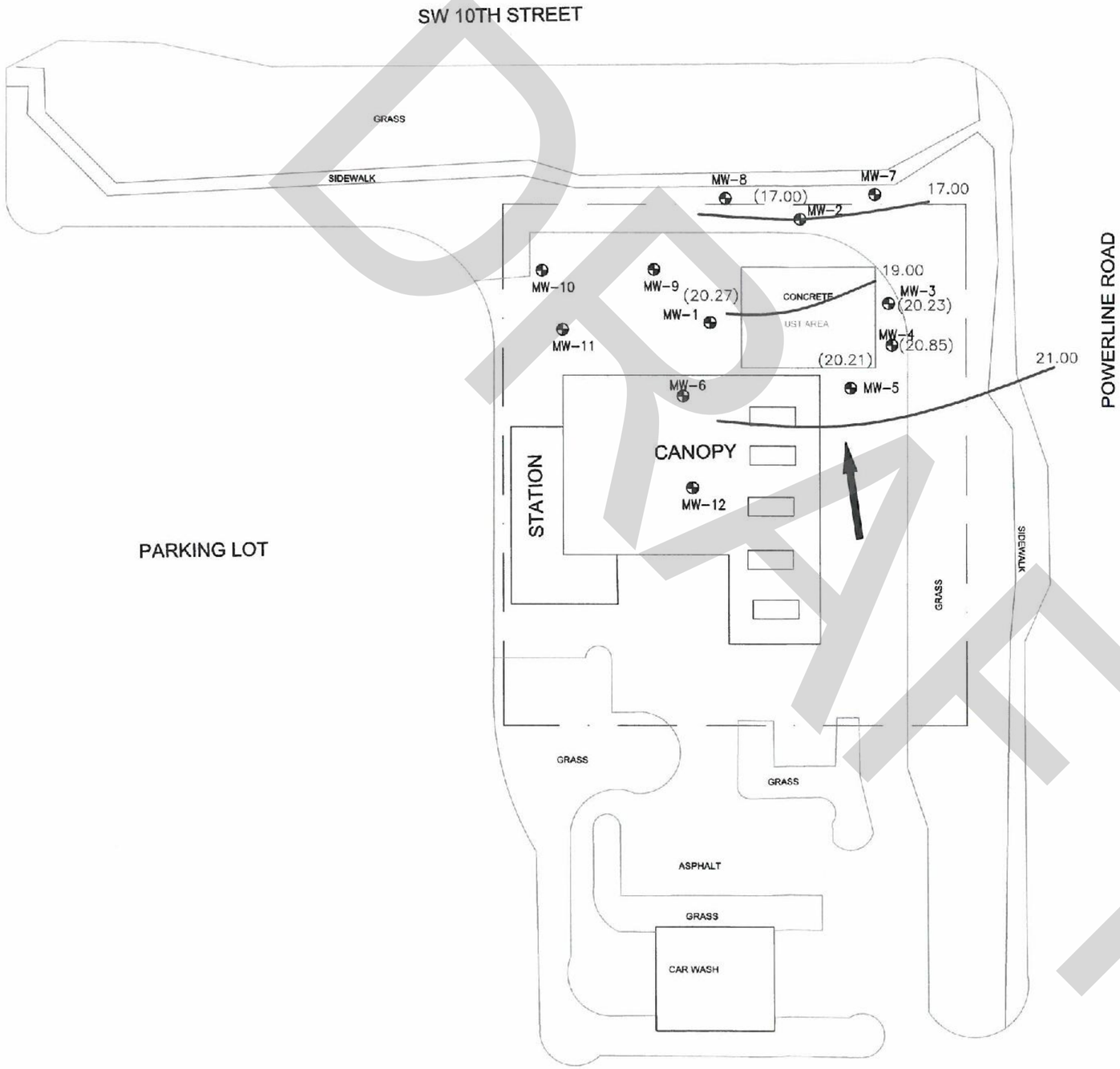
ECOTECH
ENVIRONMENTAL SERVICES, INC.

LEGEND

⊕ MONITOR WELL LOCATION

DRAFTED BY: CDA	SITE MAP		
CHECKED BY:	FIRST COAST ENERGY 1836 1011 S. POWERLINE ROAD DEERFIED BEACH, PALM BEACH COUNTY, FLORIDA FDEP FAC. ID: 06/9800891		
REVIEWED BY:			
NORTH	Ecotech Environmental Services, Inc.		
	SCALE IN FEET (APPROXIMATE) 0 30	DATE 11/12/15	FIGURE 1

DRAFT



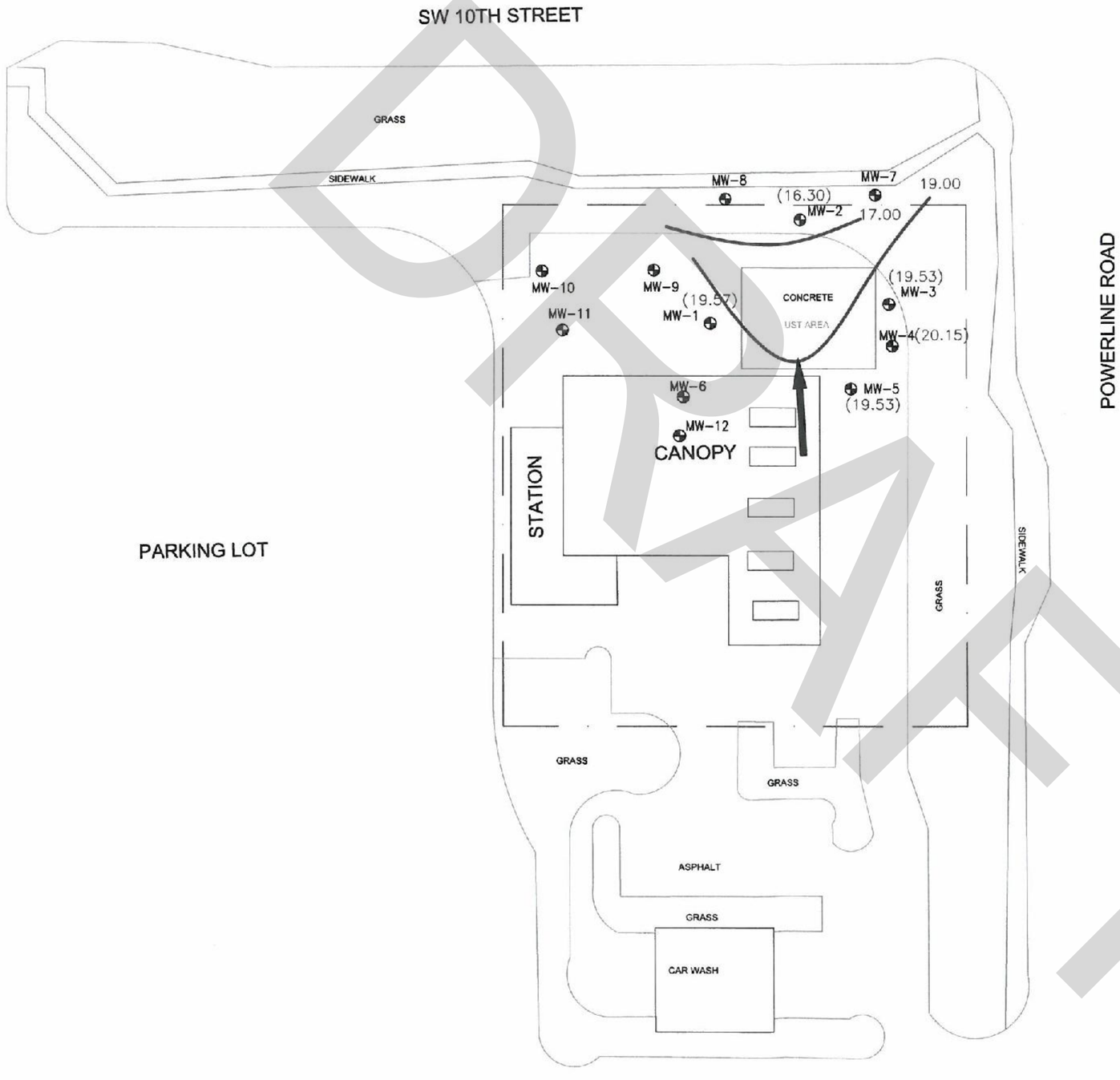
ECOTECH
ENVIRONMENTAL SERVICES, INC.

LEGEND

- MONITOR WELL LOCATION
- (20.27) GROUNDWATER ELEVATION
- 20.00 GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
- GROUNDWATER FLOW DIRECTION

DRAFTED BY: CDA	GROUNDWATER CONTOUR MAP JULY 2, 2015
CHECKED BY:	FIRST COAST ENERGY 1836 1011 S. POWERLINE ROAD DEERFIED BEACH, PALM BEACH COUNTY, FLORIDA FDEP FAC. ID: 06/9800891
REVIEWED BY:	
NORTH	Ecotech Environmental Services, Inc.
SCALE IN FEET (APPROXIMATE) 0 30	DATE 11/3/15 / FIGURE 2A

DRAFT



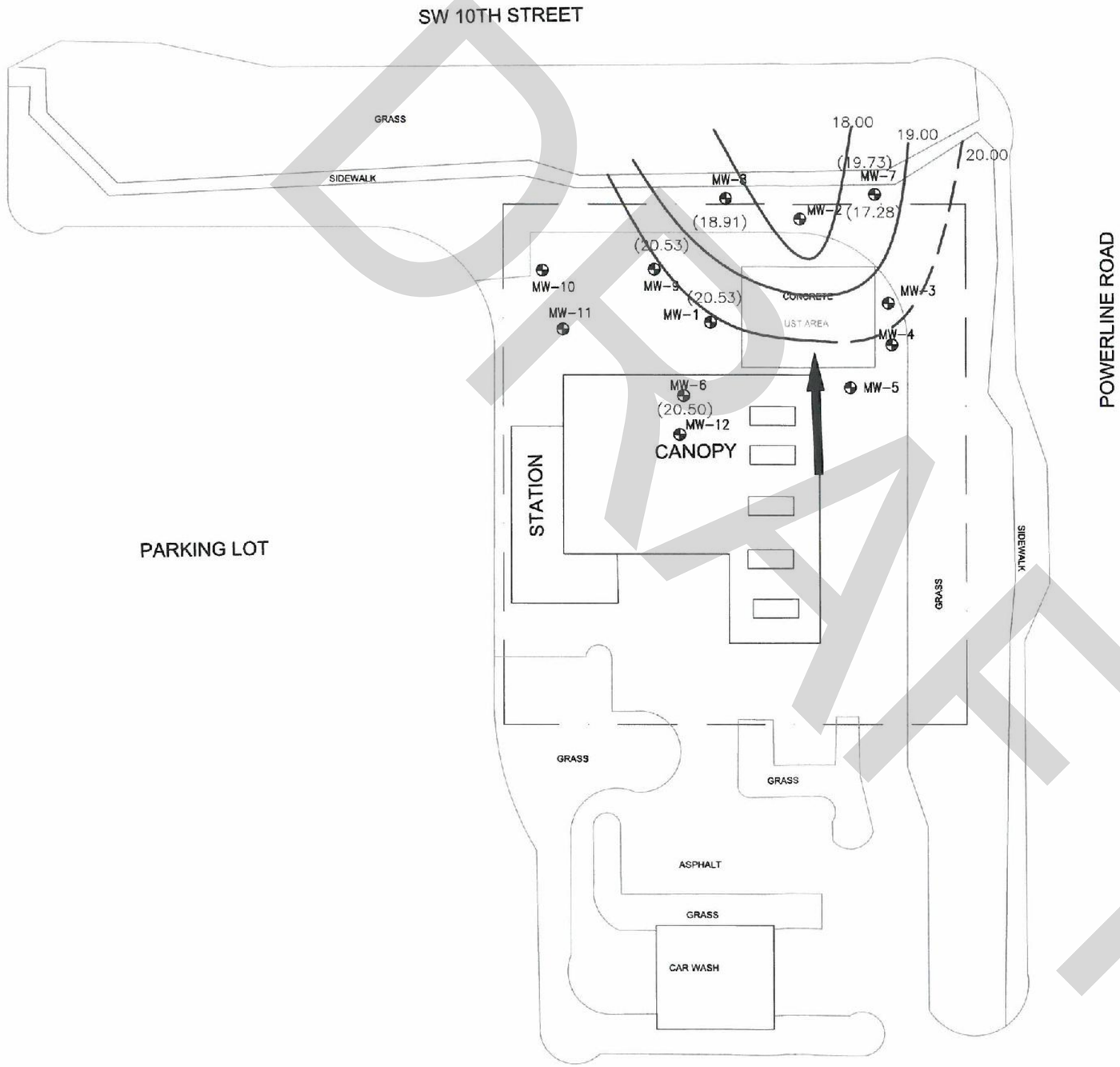
ECOTECH
ENVIRONMENTAL SERVICES, INC.

LEGEND

- MONITOR WELL LOCATION
- (19.53) GROUNDWATER ELEVATION
- 20.00 GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
- GROUNDWATER FLOW DIRECTION

DRAFTED BY: CDA	GROUNDWATER CONTOUR MAP JULY 30, 2015		
CHECKED BY:	FIRST COAST ENERGY 1836 1011 S. POWERLINE ROAD DEERFIED BEACH, PALM BEACH COUNTY, FLORIDA FDEP FAC. ID: 06/9800891		
REVIEWED BY:			
NORTH	Ecotech Environmental Services, Inc.		
	SCALE IN FEET (APPROXIMATE) 0 30	DATE 11/12/15	FIGURE 2B

DRAFT



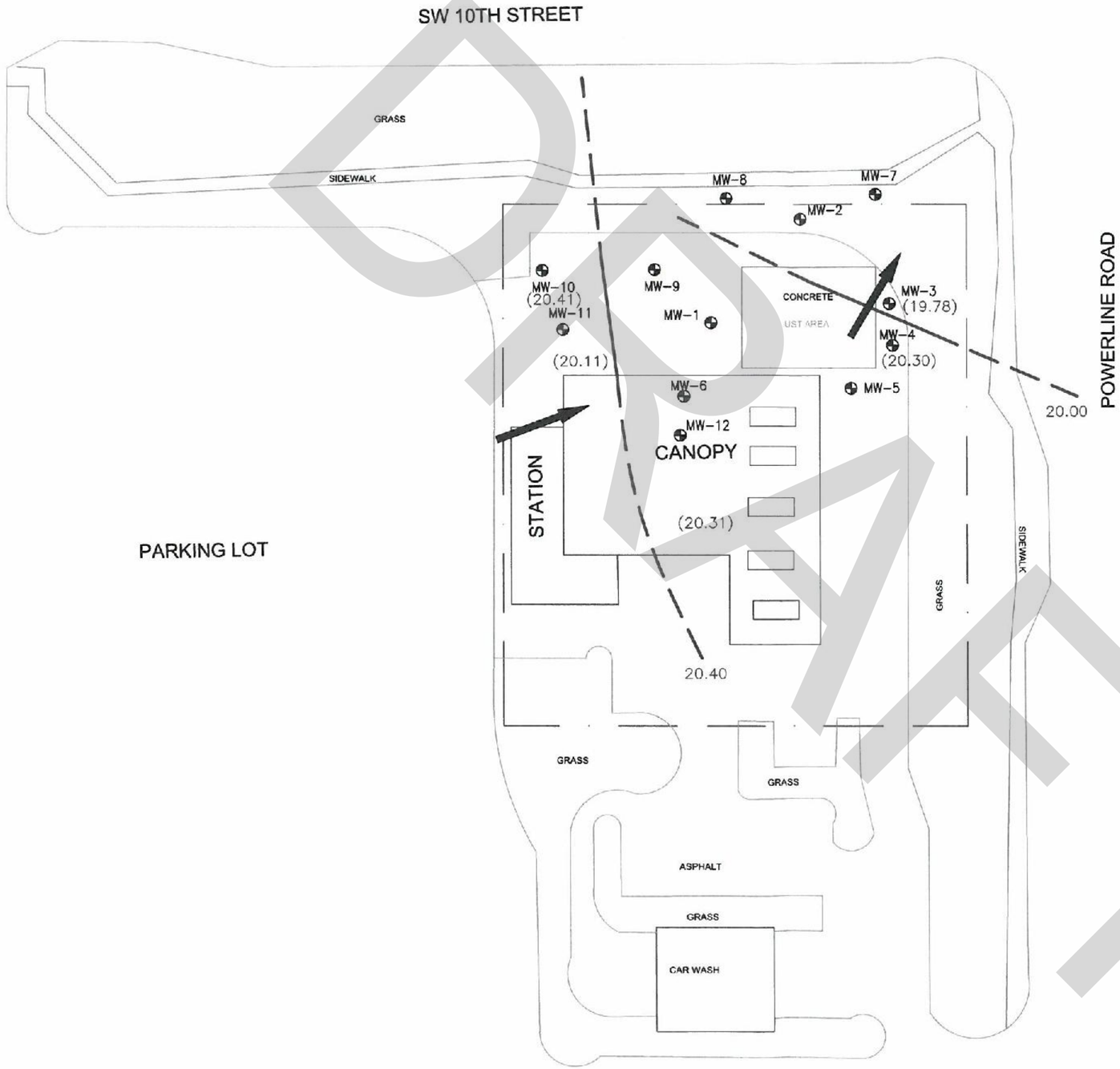
ECOTECH
ENVIRONMENTAL SERVICES, INC.

LEGEND

- MONITOR WELL LOCATION
- (19.53) GROUNDWATER ELEVATION
- 20.00 GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
- GROUNDWATER FLOW DIRECTION

DRAFTED BY: CDA	GROUNDWATER CONTOUR MAP SEPTEMBER 22, 2015
CHECKED BY:	FIRST COAST ENERGY 1836 1011 S. POWERLINE ROAD DEERFIED BEACH, PALM BEACH COUNTY, FLORIDA FDEP FAC. ID: 06/9800891
REVIEWED BY:	
NORTH	Ecotech Environmental Services, Inc.
SCALE IN FEET (APPROXIMATE) 0 30	DATE 11/12/15 / FIGURE 2C

DRAFT



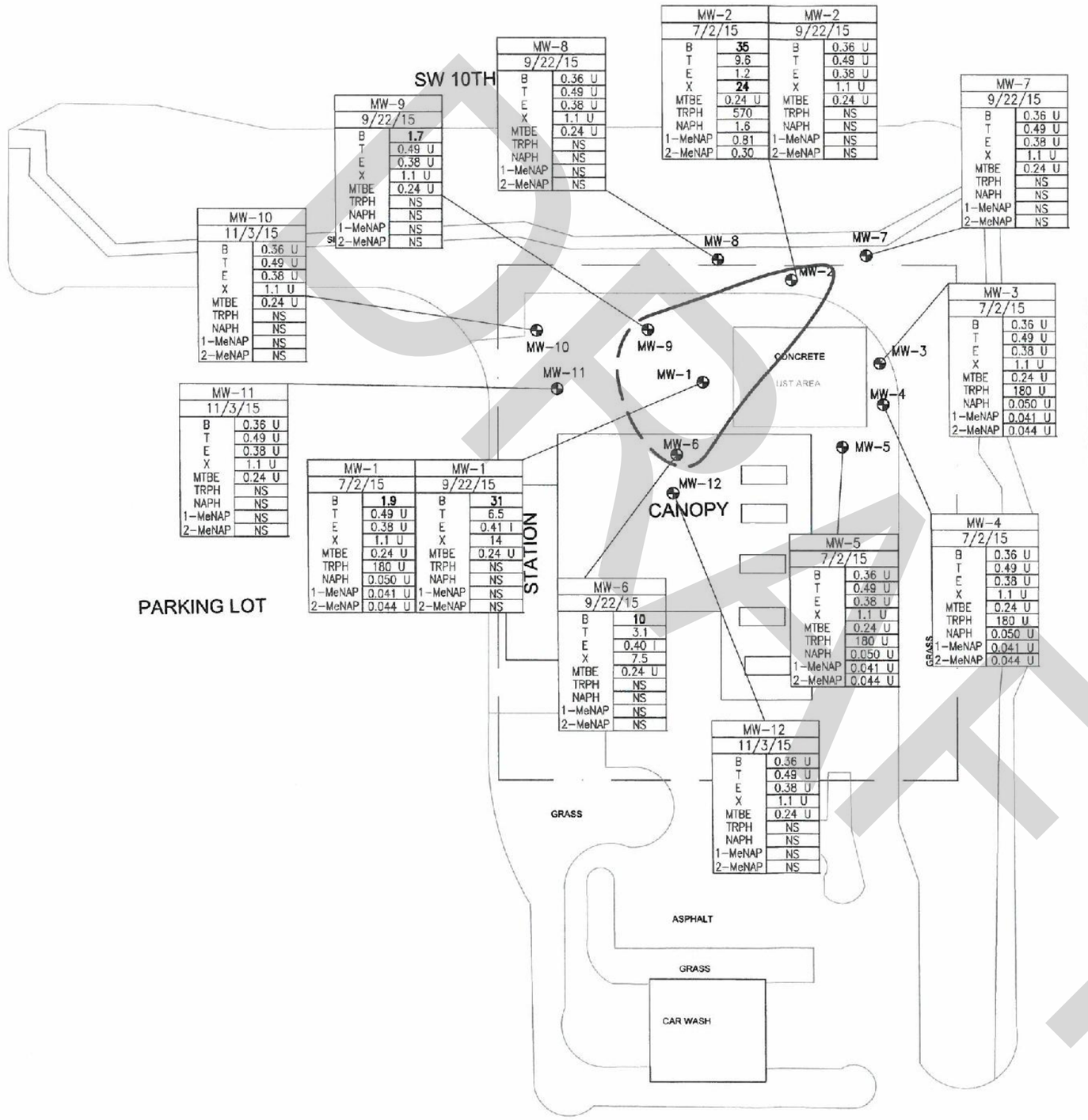
ECOTECH
ENVIRONMENTAL SERVICES, INC.

LEGEND

- MONITOR WELL LOCATION
- (20.27) GROUNDWATER ELEVATION
- 20.00 GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
- GROUNDWATER FLOW DIRECTION

DRAFTED BY: CDA	GROUNDWATER CONTOUR MAP NOVEMBER 3, 2015
CHECKED BY:	FIRST COAST ENERGY 1836 1011 S. POWERLINE ROAD
REVIEWED BY:	DEERFIED BEACH, PALM BEACH COUNTY, FLORIDA FDEP FAC. ID: 06/9800891
NORTH	Ecotech Environmental Services, Inc.
SCALE IN FEET (APPROXIMATE) 0 30	DATE 11/12/15 / FIGURE 2D

DRAFT



ECOTECH
ENVIRONMENTAL SERVICES, INC.

LEGEND

⊕ MONITOR WELL LOCATION

MW-##	WELL ID
M/D/Y	SAMPLE DATE
B 1	BENZENE CONCENTRATION (ug/L)
T 40	TOLUENE CONCENTRATION (ug/L)
E 30	ETHYLBENZENE CONCENTRATION (ug/L)
X 20	TOTAL XYLENES CONCENTRATION (ug/L)
MTBE 20	MTBE CONCENTRATION (ug/L)
TRPH 5000	TRPH CONCENTRATION (ug/L)
NAPH 14	NAPHTHALENE (ug/L)
1-MeNAP 28	1-METHYLNAPHTHALENE (ug/L)
2-MeNAP 28	2-METHYLNAPHTHALENE (ug/L)

NOTE:

SEE LABORATORY ANALYTICAL REPORT AND/OR TABLES FOR DEFINITION OF DATA QUALIFIERS.

NS = NOT SAMPLED

—— —— EXCEEDS GCTL

GCTL = CHAPTER 62-777 F.A.C.
GROUNDWATER CLEANUP TARGET LEVEL

DRAFTED BY: CDA	GROUNDWATER ANALYTICAL MAP VARIOUS DATES		
CHECKED BY:	FIRST COAST ENERGY 1836 1011 S. POWERLINE ROAD DEERFIED BEACH, PALM BEACH COUNTY, FLORIDA FDEP FAC. ID: 06/9800891		
REVIEWED BY:			
NORTH N	Ecotech Environmental Services, Inc.		
	SCALE IN FEET (APPROXIMATE) 0 30	DATE 11/12/15	FIGURE 3

TABLES

DRAFT

TABLE 1: GROUNDWATER ELEVATION SUMMARY

Facility Name: FIRST COAST ENERGY STORE #1836
1011 S. Powerline Road, Deerfield Beach, FL
FDEP ID No. 06/9800891

Well No.	MW-1	MW-2	MW-3	MW-4	MW-5
Diameter	2"	2"	2"	2"	2"
Depth	12'	12'	12'	12'	12'
Screen	2-12'	2-12'	2-12'	2-12'	2-12'
Elevation	24.03	22.39	24.00	24.30	23.99

DATE	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
7/2/2015	3.76	20.27	5.39	17.00	3.77	20.23	3.45	20.85	3.78	20.21
7/30/2015	4.46	19.57	6.09	16.30	4.47	19.53	4.15	20.15	4.46	19.53
9/22/2015	3.5	20.53	5.11	17.28	NM		NM		NM	
11/3/2015	NM		NM		4.22	19.78	3.91	20.39	NM	

Well No.	MW-6	MW-7	MW-8	MW-9	MW-10
Diameter	2"	2"	2"	2"	2"
Depth	12'	12'	12'	12'	12'
Screen	2-12'	2-12'	2-12'	2-12'	2-12'
Elevation	24.03	23.59	23.22	24.05	24.82

DATE	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
9/22/2015	3.52	20.50	3.86	19.73	4.31	18.91	3.52	20.53	NOT INSTALLED	
11/3/2015	NM		NM		NM		NM		4.41	20.41

Well No.	MW-11	MW-12			
Diameter	2"	2"			
Depth	12'	12'			
Screen	2-12'	2-12'			
Elevation	24.77	24.72			

DATE	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
11/3/2015	4.34	20.43	4.41	20.31						

results measured in feet.

DRAFT

TABLE 2: GROUNDWATER SAMPLE ANALYTICAL SUMMARY - BTEX/MTBE/TRPH

Facility Name: FIRST COAST ENERGY STORE #1836
1011 S. POWERLINE RD., DEERFIELD BEACH, FL

Not Sampled = NS
Analytical Results = ug/L
Below Detection Levels = BDL
BOLDED results indicate above GCTLs
BLANK = No Data

Sample Location	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	TRPH
GCTLs		**1**	**40**	**30**	**20**	**20**	**5,000**
NADCs		**100**	**400**	**300**	**200**	**200**	**50,000**
MW-1	7/2/2015	**1.9**	0.49 U	0.38 U	1.1 U	0.24 U	180 U
	9/22/2015	**31**	6.5	0.41 I	14	0.24 U	NS
MW-2	7/2/2015	**35**	9.6	1.2	**24**	0.24 U	570
	9/22/2015	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
MW-3	7/2/2015	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	180 U
MW-4	7/2/2015	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	180 U
MW-5	7/2/2015	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	180 U
MW-6	9/22/2015	**10**	3.1	0.40 I	7.5	0.24 U	NS
MW-7	9/22/2015	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
MW-8	9/22/2015	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
MW-9	9/22/2015	**1.7**	0.49 U	0.38 U	2.4	0.24 U	NS
MW-10	11/3/2015	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
MW-11	11/3/2015	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS
MW-12	11/3/2015	0.36 U	0.49 U	0.38 U	1.1 U	0.24 U	NS

NS = Not sampled.
GCTL = Groundwater Cleanup Target Level
NADC = Natural Attenuation Default Concentration
U = Indicates that the compound is was analyzed for but not detected at the quantation limit. The value associated with the qualifier shall be the method detection limit (MDL).
*** = Chapter 62-777 FAC does not establish a Natural Atteniation Default Concentration for this specific parameter.**

LIVE

TABLE 3

GROUNDWATER ANALYTICAL SUMMARY (PAHs)

FIRST COAST ENERGY STORE #1836 1011 S. POWERLINE RD., DEERFIELD BEACH, FL

Monitoring Well	Date	Naphthalene (µg/L)	1-Methylnaphthalene (µg/L)	2-Methylnaphthalene (µg/L)	Acenaphthene (µg/L)	Acenaphthylene (µg/L)	Anthracene (µg/L)	Benzo(a)anthracene (µg/L)	Benzo(a)pyrene (µg/L)	Benzo(b)fluoranthene (µg/L)	Benzo(g,h,i)perylene (µg/L)	Benzo(k)fluoranthene (µg/L)	Chrysene (µg/L)	Dibenzo(a,h)anthracene (µg/L)	Fluoranthene (µg/L)	Fluorene (µg/L)	Indeno(1,2,3-cd)pyrene (µg/L)	Phenanthrene (µg/L)	Pyrene (µg/L)
	FDEP GCTLs	**14**	**28**	**28**	**20**	**210**	**2,100**	**0.05**	**0.2**	**0.05**	**210**	**0.5**	**4.8**	**0.005**	**280**	**280**	**0.05**	**210**	**210**
	FDEP NADCs	**140**	**280**	**280**	**200**	**2,100**	**21,000**	**5**	**20**	**5**	**2,100**	**50**	**480**	**0.5**	**2,800**	**2,800**	**5**	**2,100**	**2,100**
MW-1	07/02/2015	0.050 U	0.041 U	0.044 U	0.048 U	0.030 U	0.022 U	0.026 U	0.032 U	0.030 U	0.033 U	0.033 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.051 U	0.036 U
MW-2	07/02/2015	1.6	0.81	0.30	0.048 U	0.030 U	0.022 U	0.026 U	0.032 U	0.030 U	0.033 U	0.033 U	0.027 U	0.029 U	0.036 U	0.18 I	0.034 U	0.051 U	0.036 U
MW-3	07/02/2015	0.050 U	0.041 U	0.044 U	0.048 U	0.030 U	0.022 U	0.026 U	0.032 U	0.030 U	0.033 U	0.033 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.051 U	0.036 U
MW-4	07/02/2015	0.050 U	0.041 U	0.044 U	0.048 U	0.030 U	0.022 U	0.026 U	0.032 U	0.030 U	0.033 U	0.033 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.051 U	0.036 U
MW-5	07/02/2015	0.050 U	0.041 U	0.044 U	0.048 U	0.030 U	0.022 U	0.026 U	0.032 U	0.030 U	0.033 U	0.033 U	0.027 U	0.029 U	0.036 U	0.036 U	0.034 U	0.051 U	0.036 U

Notes:

<	= Less than the method detection limit of #
µg/L	= Micrograms/liter
I	= Reported value between laboratory method detection limit and The laboratory quanitative limit
U	= Compound analyzed for but not detected
J	= The %RPD recovery was a high on the Laboratory control sample(LCS). However, the LCS sample was undetected for dibenz(a,h)anthracene.
V	= Indicates the analyte was detected in both the sample and the associated blank. The blank value should not be subtrated from the associated samle.
ND	= Not detected (# is method detection limit)
Bolded	= The result is above Target Levels

= (Toxic Equivalency Factors for Carcinogenic PAHs) Multiply Analytical Result by TEF

ATTACHMENT A

SPILL BUCKET CLOSURE ASSESSMENT REPORT REVIEW LETTER

DRAFT

idonaldson@ecotechfla.com

From: Whitaker, Gregory <GWHITAKER@broward.org>
Sent: Wednesday, May 20, 2015 5:17 PM
To: 'aedge@firstcoastenergy.com'
Cc: Reid, Alfred; Gomez, Alfred; Younes, Ali; 'dmiller@firstcoastenergey.com'; 'bnorris@camdrcontractors.com'; 'abelfiore@universalpetro.com'; 'sdavidson@firstcoastenergy.com'; idonaldson@ecotechfla.com; 'kkusmirek@firstcoastenergy.com'; Vanlandingham, David
Subject: RE: Fill & Vapor Bucket Closure Report for FCE #1836 1011 S Powerline Rd Deerfield Beach FL 33442
Attachments: 03202015 FCE 1836 Closure Assessment Report.pdf

Dear Aubrey Edge:

The Broward County Pollution Prevention Division (Division) has reviewed the Fill & Vapor Bucket Closure Report (Closure Report), dated March 20, 2015 (received March 25, 2015), and submitted by your consultant, Ecotech Environmental Services, Inc. (Ecotech). The Closure Report contained a Discharge Reporting Form (DRF), along with the results of soil sampling activities conducted to document the closure of fill and vapor buckets associated with four 10,000-gallon gasoline and one 8,000 diesel underground storage tanks (USTs) located at the subject site. The Closure Report suggests that petroleum product contamination was identified in the soil and indicated that a groundwater assessment will be completed in the vicinity of the USTs at this site.

The Environmental Assessment and Remediation (EAR) Section of the Division is following up with the site rehabilitation activities related to the identified petroleum impacts. If you have any questions regarding the site rehabilitation activities for petroleum impacts at the site, please contact David Vanlandingham at (954) 519-1478 or dvanlandingham@broward.org.

Sincerely,

BROWARD COUNTY FLORIDA

GREG WHITAKER, NATURAL RESOURCE SPECIALIST II
Environmental Protection and Growth Management Department
POLLUTION PREVENTION DIVISION
1 N University Dr, Suite 203 | Plantation, Florida 33324
954.519.1229 Office ▪ 954.765.4804 Fax
Broward.org/PollutionPrevention | Facebook | Twitter | Go Solar | ePermits

We value your feedback as a customer. Please comment on the quality of service you received by completing our survey. Thank you!

BROWARD 100

DRAFT

ATTACHMENT B

BORING LOGS, FIELD INSTRUMENT CALIBRATION LOG, AND WELL COMPLETION REPORTS

DRAFT

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
MW-- 1		9800891

Site Name:	Borehole Start Date: 06/29/15	Borehole Start Time: 1105 ☑ AM ☐ PM
FCE 1836	End Date: 06/29/15	End Time: 1135 ☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
ECOTECH ENV. SVCS., INC.	PAUL BRACKIN	DRILLERS

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
EARTH TECH DRILLING	3"	8"	12

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
HA/HAS	3	9.38	☐ FID ☑

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☑ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☑ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0-2	9"				4.1	1–2	0-3" asphalt 3"-5' dark brown mg. qtz sand w/ limestone	SW	D	
	2-4					3.1	3–4		SW	M	
HA HSA	4-6						5–6			W	
HSA							7–8	5-12' orange-brown mg qtz sand.			
							9–10				
							11–12	12' EOB			

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

DRAFT

BORING LOG

Page 1 of 1

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
MW-2		9800891

Site Name:	Borehole Start Date: 06/29/15	Borehole Start Time: 1010 ☑ AM ☐ PM
FCE 1836	End Date: 06/29/15	End Time: 1105 ☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
ECOTECH ENV. SVCS., INC.	PAUL BRACKIN	DRILLERS

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
EARTH TECH DRILLING	NA	8"	12

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
HA/HAS	3	5.79	☐ FID ☑

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☑ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☑ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0-2	8				0.0	1	0-6" topsoil.		D	
							2	6"-3'5' dark brown mg qtz sand.	SP		
	2-4					0.1	3		SP	M	
							4			W	
						0.0	5	5'-12' orange-brown mg. qtz sand.			
HA HSA	4-6						6				
							7				
							8				
							9				
							10				
							11				
HSA							12	12' EOB			

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

DRAFT

BORING LOG

Boring/Well Number: MW– 3	Permit Number:		FDEP Facility Identification Number: 9800891
Site Name: FCE 1836	Borehole Start Date: 06/29/15 End Date: 06/29/15	Borehole Start Time: 840 ☑ AM ☐ PM End Time: 905 ☑ AM ☐ PM	
Environmental Contractor: ECOTECH ENV. SVCS., INC.	Geologist's Name: PAUL BRACKIN		Environmental Technician's Name: DRILLERS
Drilling Company: EARTH TECH DRILLING	Pavement Thickness (inches): 3"	Borehole Diameter (inches): 8	Borehole Depth (feet): 12
Drilling Method(s): HA/HAS	Apparent Borehole DTW (in feet from soil moisture content): 3	Measured Well DTW (in feet after water recharges in well): 4.38	OVA (list model and check type): ☐ FID ☑

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☑ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☑ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0-2	8				0.5	1	0-3" asphalt			
							2	3"-2' gray mg qtz sand w/limestone.	SW	D	
	2-4					0.1	3			M	
							4	2'-5' dark brown mg qtz sand.	SP	W	
						0.0	5				
HA	4-6						6				
HSA							7	5'-12' orange-brown mg qtz sand.			
							8				
							9				
							10				
							11				
HSA							12	12' EOB			

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

DRAFT

BORING LOG

Boring/Well Number: MW-- 4	Permit Number:	FDEP Facility Identification Number: 9800891
Site Name: FCE 1836	Borehole Start Date: 06/29/15 End Date: 06/29/15	Borehole Start Time: 905 ☑ AM ☐ PM End Time: 940 ☑ AM ☐ PM
Environmental Contractor: ECOTECH ENV. SVCS., INC.	Geologist's Name: PAUL BRACKIN	Environmental Technician's Name: DRILLERS
Drilling Company: EARTH TECH DRILLING	Pavement Thickness (inches): 3"	Borehole Diameter (inches): 8
Borehole Depth (feet): 12		
Drilling Method(s): HA/HAS	Apparent Borehole DTW (in feet from soil moisture content): NM	Measured Well DTW (in feet after water recharges in well): 4.57
OVA (list model and check type): ☐ FID ☑		

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☑ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☑ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0-2	8				51.9	1	0.3" asphalt			
							2	3"-6' brown mg. qtz.		D	
						107.9	3	sand w/limestone.	SP	M	
	2-4						4	Petro Odor.		W	
						30.2	5				
HA	4-6						6	6'-12 orange	SW		
HSA							7	brown qtz sand			
							8				
							9				
							10				
							11				
HSA							12	12' EOB			

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

DRAFT

BORING LOG

Boring/Well Number: MW-- 5	Permit Number:	FDEP Facility Identification Number: 9800891
Site Name: FCE 1836	Borehole Start Date: 06/29/15 End Date: 06/29/15	Borehole Start Time: 940 ☑ AM ☐ PM End Time: 1000 ☑ AM ☐ PM
Environmental Contractor: ECOTECH ENV. SVCS., INC.	Geologist's Name: PAUL BRACKIN	Environmental Technician's Name: DRILLERS
Drilling Company: EARTH TECH DRILLING	Pavement Thickness (inches): 3"	Borehole Diameter (inches): 8
Borehole Depth (feet): 12		
Drilling Method(s): HA/HAS	Apparent Borehole DTW (in feet from soil moisture content): NM	Measured Well DTW (in feet after water recharges in well): 4.48
OVA (list model and check type): ☐ FID ☑		

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☑ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☑ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0-2					525	1	0-3" asphalt.			
							2	3"-2' gray mg qtz. sand.	SP	D	
	2-4					416	3			M	
							4	2-6' brown mg qtz sand.		W	
						31.1	5		SP		
HA/HAS	4-6						6	6'-12' orange-brown mg. qtz. sand.			
							7				
							8				
							9				
							10				
							11				
							12	12' EOB			

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

DRAFT

Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-1	FCE 1836	9800891	6/29/15

Well Location and Type (check appropriate boxes):
- [x] On-Site
- [ ] Right-of-Way
- [ ] Off-Site Private Property
- [ ] Above Grade (AG)
- [x] Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose:
- [ ] Perched Monitoring
- [x] Shallow (Water-Table) Monitoring
- [ ] Intermediate or Deep Monitoring
- [ ] Remediation or Other (describe)

Well Install Method: .HSA

Surface Casing Install Method: NOT APPLICABLE

Borehole Depth	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
12'	12'	3.5"	8"	2 feet by 2 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
2" DIAMETER SCH. 40 PVC	[x] Flush-Threaded [ ] Other (describe)	2 feet from 0 feet to 2 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
2" DIAMETER SCH. 40 PVC	0.010	10 feet from 2 feet to 12 feet

1st Surface Casing Material:	1st Surface Casing I.D. (inches):	1st Surface Casing Length:
NA also check: [ ] Permanent [ ] Temporary	NOT APPLICABLE	NA feet from NA feet to NA feet

2nd Surface Casing Material:	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length:
NA also check: [ ] Permanent [ ] Temporary	NA	NA feet from 0 feet to NA feet

3rd Surface Casing Material:	3rd Surface Casing I.D. (inches):	3rd Surface Casing Length:
NA also check: [ ] Permanent [ ] Temporary	NA	NA feet from 0 feet to NA feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
20/30 SILICA SAND	[ ] Yes [x] No	11 feet from 1 feet to 12 feet

Filter Pack Seal Material and Size:	Filter Pack Seal Length:
30/65 FG SILICA SAND	0.5 feet from 0.5 feet to 1 feet

Surface Seal Material:	Surface Seal Length:
PORTLAND NEAT CEMENET GROUT	0.5 feet from 0 feet to 0.5 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):	
6/29/15	[ ] Other (describe) [ ] Surge/Pum [x] Pump	[ ] Compressed Air

Development Pump Type (check):	Depth to Groundwater (before developing in feet):
[x] Centrifugal [ ] Peristaltic [ ] Submersible [ ] Other (describe)	unknown Final: 4.38'

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
2	NA	[ ] Yes [x] No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
[x] Continuous [ ] Intermittent	60	30	[ ] Yes [x] No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
milky no odor	clear no odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

DRAFT

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-2	FCE 1836	9800891	6/29/15

Well Location and Type (check appropriate boxes):	Well Purpose:	Well Install Method:
☑ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☐ Above Grade (AG) ☑ Flush-to-Grade If AG, list feet of riser above land surface:	☐ Perched Monitoring ☑ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)	.HSA Surface Casing Install Method: NOT APPLICABLE

Borehole Depth	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
12'	12'	3.5	8"	2 feet by 2 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
2" DIAMETER SCH. 40 PVC	☑ Flush-Threaded ☐ Other (describe)	2 feet from 0 feet to 2 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
2" DIAMETER SCH. 40 PVC	0.010	10 feet from 2 feet to 12 feet

1st Surface Casing Material: NA also check: ☐ Permanent ☐ Temporary	1st Surface Casing I.D. (inches): NOT APPLICABLE	1st Surface Casing Length: NA feet from NA feet to NA feet
2nd Surface Casing Material: NA also check: ☐ Permanent ☐ Temporary	2nd Surface Casing I.D. (inches): NA	2nd Surface Casing Length: NA feet from 0 feet to NA feet
3rd Surface Casing Material: NA also check: ☐ Permanent ☐ Temporary	3rd Surface Casing I.D. (inches): NA	3rd Surface Casing Length: NA feet from 0 feet to NA feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
20/30 SILICA SAND	☐ Yes ☑ No	11 feet from 1 feet to 12 feet

Filter Pack Seal Material and Size:	Filter Pack Seal Length:
30/65 FG SILICA SAND	0.5 feet from 0.5 feet to 1 feet

Surface Seal Material:	Surface Seal Length:
PORTLAND NEAT CEMENET GROUT	0.5 feet from 0 feet to 0.5 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):	
6/29/15	☐ Other (describe) ☐ Surge/Pum ☑ Pump ☐ Compressed Air	

Development Pump Type (check):	Depth to Groundwater (before developing in feet):
☑ Centrifugal ☐ Peristaltic ☐ Submersible ☐ Other (describe)	5.79

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
2	0.37	☐ Yes ☑ No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
☑ Continuous ☐ Intermittent			☐ Yes ☑ No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
milky no odor	clear no odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

DRAFT

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-3	FCE 1836	9800891	6/29/15

Well Location and Type (check appropriate boxes):
- [x] On-Site
- [ ] Right-of-Way
- [ ] Off-Site Private Property
- [ ] Above Grade (AG)
- [x] Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose:
- [ ] Perched Monitoring
- [x] Shallow (Water-Table) Monitoring
- [ ] Intermediate or Deep Monitoring
- [ ] Remediation or Other (describe)

Well Install Method: .HSA

Surface Casing Install Method: NOT APPLICABLE

Borehole Depth	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
12'	12'	3.5"	8"	2 feet by 2 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
2" DIAMETER SCH. 40 PVC	[x] Flush-Threaded [ ] Other (describe)	2 feet from 0 feet to 2 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
2" DIAMETER SCH. 40 PVC	0.010	10 feet from 2 feet to 12 feet

1st Surface Casing Material: NA also check: [ ] Permanent [ ] Temporary	1st Surface Casing I.D. (inches): NOT APPLICABLE	1st Surface Casing Length: NA feet from NA feet to NA feet
2nd Surface Casing Material: NA also check: [ ] Permanent [ ] Temporary	2nd Surface Casing I.D. (inches): NA	2nd Surface Casing Length: NA feet from 0 feet to NA feet
3rd Surface Casing Material: NA also check: [ ] Permanent [ ] Temporary	3rd Surface Casing I.D. (inches): NA	3rd Surface Casing Length: NA feet from 0 feet to NA feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
20/30 SILICA SAND	[ ] Yes [x] No	11 feet from 1 feet to 12 feet

Filter Pack Seal Material and Size:	Filter Pack Seal Length:
30/65 FG SILICA SAND	0.5 feet from 0.5 feet to 1 feet

Surface Seal Material:	Surface Seal Length:
PORTLAND NEAT CEMENET GROUT	0.5 feet from 0 feet to 0.5 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):	
6/29/15	[ ] Other (describe) [ ] Surge/Pum [x] Pump [ ] Compressed Air	

Development Pump Type (check):	Depth to Groundwater (before developing in feet):
[x] Centrifugal [ ] Peristaltic [ ] Submersible [x] Other (describe)	4.38"

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
2	0.21	[ ] Yes [x] No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
[x] Continuous [ ] Intermittent			[ ] Yes [x] No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
milky no odor	clear no odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

DRAFT

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-4	FCE 1836	9800891	6/29/15

Well Location and Type (check appropriate boxes):	Well Purpose:	Well Install Method:
☑ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☐ Above Grade (AG) ☑ Flush-to-Grade If AG, list feet of riser above land surface:	☐ Perched Monitoring ☑ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)	.HSA Surface Casing Install Method: NOT APPLICABLE

Borehole Depth	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
12'	12'	3.5"	8"	2 feet by 2 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
2" DIAMETER SCH. 40 PVC	☑ Flush-Threaded ☐ Other (describe)	2 feet from 0 feet to 2 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
2" DIAMETER SCH. 40 PVC	0.010	10 feet from ~~0~~ 2 feet to 12 feet

1st Surface Casing Material:	1st Surface Casing I.D. (inches):	1st Surface Casing Length:
NA also check: ☐ Permanent ☐ Temporary	NOT APPLICABLE	NA feet from NA feet to NA feet

2nd Surface Casing Material:	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length:
NA also check: ☐ Permanent ☐ Temporary	NA	NA feet from 0 feet to NA feet

3rd Surface Casing Material:	3rd Surface Casing I.D. (inches):	3rd Surface Casing Length:
NA also check: ☐ Permanent ☐ Temporary	NA	NA feet from 0 feet to NA feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
20/30 SILICA SAND	☐ Yes ☑ No	11 feet from 1 feet to 12 feet

Filter Pack Seal Material and Size:	Filter Pack Seal Length:
30/65 FG SILICA SAND	0.5 feet from 0.5 feet to 1 feet

Surface Seal Material:	Surface Seal Length:
PORTLAND NEAT CEMENET GROUT	0.5 feet from 0 feet to 0.5 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):
6/29/15	☐ Other (describe) ☐ Surge/Pum ☑ Pump ☐ Compressed Air

Development Pump Type (check):	Depth to Groundwater (before developing in feet):
☑ Centrifugal ☐ Peristaltic ☐ Submersible ☐ Other (describe)	4.51

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
2	0.19	☐ Yes ☑ No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
☑ Continuous ☐ Intermittent			☐ Yes ☑ No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
milky, petro odor	clear no odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

DRAFT

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number: MW-5	Site Name: FCE 1836	FDEP Facility I.D. Number: 9800891	Well Install Date(s): 6/29/15

Well Location and Type (check appropriate boxes): ☑ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☐ Above Grade (AG) ☑ Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose: ☐ Perched Monitoring ☑ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)

Well Install Method: .HSA

Surface Casing Install Method: NOT APPLICABLE

Borehole Depth: 12'	Well Depth (feet): 12'	Borehole Diameter (inches): 3.5"	Manhole Diameter (inches): 8"

Well Pad Size: 2 feet by 2 feet

Riser Diameter and Material: 2" DIAMETER SCH. 40 PVC

Riser/Screen Connections: ☑ Flush-Threaded ☐ Other (describe)

Riser Length: 2 feet from 0 feet to 2 feet

Screen Diameter and Material: 2" DIAMETER SCH. 40 PVC

Screen Slot Size: 0.010

Screen Length: 10 feet from 2 feet to 12 feet

1st Surface Casing Material: NA also check: ☐ Permanent ☐ Temporary

1st Surface Casing I.D. (inches): NOT APPLICABLE

1st Surface Casing Length: NA feet from NA feet to NA feet

2nd Surface Casing Material: NA also check: ☐ Permanent ☐ Temporary

2nd Surface Casing I.D. (inches): NA

2nd Surface Casing Length: NA feet from 0 feet to NA feet

3rd Surface Casing Material: NA also check: ☐ Permanent ☐ Temporary

3rd Surface Casing I.D. (inches): NA

3rd Surface Casing Length: NA feet from 0 feet to NA feet

Filter Pack Material and Size: 20/30 SILICA SAND

Prepacked Filter Around Screen (check one): ☐ Yes ☑ No

Filter Pack Length: 11 feet from 1 feet to 12 feet

Filter Pack Seal Material and Size: 30/65 FG SILICA SAND

Filter Pack Seal Length: 0.5 feet from 0.5 feet to 1 feet

Surface Seal Material: PORTLAND NEAT CEMENET GROUT

Surface Seal Length: 0.5 feet from 0 feet to 0.5 feet

WELL DEVELOPMENT DATA

Well Development Date: 6/29/15

Well Development Method (check one): ☐ Surge/Pum ☑ Pump ☐ Compressed Air ☐ Other (describe)

Development Pump Type (check): ☑ Centrifugal ☐ Peristaltic ☐ Submersible ☐ Other (describe)

Depth to Groundwater (before developing in feet): 4.48

Pumping Rate (gallons per minute): 1

Maximum Drawdown of Groundwater During Development (feet): 1.54

Well Purged Dry (check one): ☐ Yes ☑ No

Pumping Condition (check one): ☐ Continuous ☑ Intermittent

Total Development Water Removed (gallons): 30

Development Duration (minutes): 30

Development Water Drummed (check one): ☐ Yes ☑ No

Water Appearance (color and odor) At Start of Development: milky petro odor

Water Appearance (color and odor) At End of Development: clear no odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

DRAFT

BORING LOG

Boring/Well Number: MW- 6	Permit Number:	FDEP Facility Identification Number: 9800891
Site Name: FCE 1836	Borehole Start Date: 09/18/15 End Date: 09/18/15	Borehole Start Time: 1325 ☐ AM ☑ PM End Time: 1415 ☐ AM ☑ PM
Environmental Contractor: ECOTECH ENV. SVCS., INC.	Geologist's Name: PAUL BRACKIN	Environmental Technician's Name: DRILLERS

Drilling Company: EARTH TECH DRILLING	Pavement Thickness (inches): 1	Borehole Diameter (inches): ~~4~~ PB 8	Borehole Depth (feet): 12
Drilling Method(s): HA/HAS	Apparent Borehole DTW (in feet from soil moisture content): 4	Measured Well DTW (in feet after water recharges in well): NM	OVA (list model and check type): ☐ FID ~~☑~~ PB

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☑ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☑ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA / HAS							1–11	0-1" asphalt 1"-1' tan mg. qtz. sand w/ limestone 1'-5' dark brown mg. qtz. sand w/ limestone. 5'-12' orange-brown mg. qtz sand 12' EOB	SP SP	D M W	

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

DRAFT

BORING LOG

Boring/Well Number: MW- 7	Permit Number:		FDEP Facility Identification Number: 9800891
Site Name: FCE 1836	Borehole Start Date: 09/18/15	Borehole Start Time: 1120 ☑ AM ☐ PM	
	End Date: 09/18/15	End Time: 1210 ☐ AM ☑ PM	
Environmental Contractor: ECOTECH ENV. SVCS., INC.	Geologist's Name: PAUL BRACKIN		Environmental Technician's Name: DRILLERS
Drilling Company: EARTH TECH DRILLING	Pavement Thickness (inches): NA	Borehole Diameter (inches): 8	Borehole Depth (feet): 12
Drilling Method(s): HA/HAS	Apparent Borehole DTW (in feet from soil moisture content): 4	Measured Well DTW (in feet after water recharges in well): NM	OVA (list model and check type): ☐ FID ~~☑ PID~~

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☑ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☑ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA							1	0-1' top soil		D	
							2	1'-2' dark brown mg. qtz sand w/ limestone.	SP		
							3			M	
							4			W	
HA							5				
~~HSA~~							6	2' 12' ~~8~~ brown-orange mg. qtz sand. w/ limestone.	SP		
HA							7				
HSA							8				
							9				
							10				
HAS							11				
								12' EOB			

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

DRAFT

BORING LOG

Boring/Well Number: MW- 8	Permit Number:	FDEP Facility Identification Number: 9800891
Site Name: FCE 1836	Borehole Start Date: 09/18/15 End Date: 09/18/15	Borehole Start Time: 945 ☑ AM ☐ PM End Time: 1105 ☑ AM ☐ PM
Environmental Contractor: ECOTECH ENV. SVCS., INC.	Geologist's Name: PAUL BRACKIN	Environmental Technician's Name: DRILLERS

Drilling Company: EARTH TECH DRILLING	Pavement Thickness (inches): NA	Borehole Diameter (inches): 8	Borehole Depth (feet): 12
Drilling Method(s): HA/HAS	Apparent Borehole DTW (in feet from soil moisture content): 4	Measured Well DTW (in feet after water recharges in well): NA	OVA (list model and check type): ☐ FID ☑ PB

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☑ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☑ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA							1	0-1' top soil		D	
							2				
							3	1'-2.5' dark brown mg qtz sand w/ limerock	SP	~~SP~~ PB M	
							4			W	
HA							5	2.5-12' light brown orange mg. qtz sand. w/ limestone			
~~HAS~~ PB							6		SP	~~SP~~ PB	
							7				
HA							8				
HSA							9				
							10				
							11				
HAS								12' EOB			

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

DRAFT

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
MW- 9		9800891

Site Name:	Borehole Start Date: 09/18/15	Borehole Start Time: 845 ☑ AM ☐ PM
FCE 1836	End Date: 09/18/15	End Time: 930 ☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
ECOTECH ENV. SVCS., INC.	PAUL BRACKIN	DRILLERS

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
EARTH TECH DRILLING	1	8	12

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
HA/HAS	4	NM	☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☑ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☑ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA							1	0-1" asphalt.		D	
							2	1"-2.5' mg. tan qtz sand w/ limestone	SP	M	
							3				
							4			W	
HA							5	2.5-12' light brown-orange mg. qtz snd w/ limerock	SP		
HAS							6				
							7				
							8				
							9				
							10				
HAS							11	12' EOB			

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

DRAFT

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW- 6	FCE 1836	9800891	9/18/15

Well Location and Type (check appropriate boxes):	Well Purpose:	Well Install Method:
☑ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☐ Above Grade (AG) ☑ Flush-to-Grade If AG, list feet of riser above land surface:	☐ Perched Monitoring ☑ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)	HAS Surface Casing Install Method: NA

Borehole Depth	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
12	12	8	8	2 feet by 2 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
2" PVC	☑ Flush-Threaded ☐ Other (describe)	2 feet from 0 feet to 2 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
2" PVC	0.010	10 feet from 2 feet to 12 feet

1st Surface Casing Material: NA also check: ☐ Permanent ☐ Temporary	1st Surface Casing I.D. (inches):	1st Surface Casing Length: ____ feet from ____ feet to ____ feet
2nd Surface Casing Material: NA also check: ☐ Permanent ☐ Temporary	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length: ____ feet from ____ feet to ____ feet
3rd Surface Casing Material: NA also check: ☐ Permanent ☐ Temporary	3rd Surface Casing I.D. (inches): NA	3rd Surface Casing Length: NA feet from 0 feet to NA feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
20/30 SILICA SAND	☐ Yes ☑ No	11 feet from 1 feet to 12 feet

Filter Pack Seal Material and Size:	Filter Pack Seal Length:
30/65 SILICA SAND	0.5 feet from 0.5 feet to 1 feet

GROUT	Surface Seal Length:
	0.5 feet from 0 feet to 0.5 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):
09/18/15	☐ Surge/Pum ☑ Pump ☐ Compressed Air ☐ Other (describe)

Development Pump Type (check):	Depth to Groundwater (before developing in feet):
☑ Centrifugal ☐ Peristaltic ☐ Submersible ☐ Other (describe)	NM

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
2	NM	☐ Yes ☑ No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
☑ Continuous ☐ Intermittent	70	35	☐ Yes ☑ No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
milky / none	none / none

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

DRAFT

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW- 7	FCE 1836	9800891	9/18/15

Well Location and Type (check appropriate boxes):
- ☐ On-Site ☐ Right-of-Way
- ☑ Off-Site Private Property
- ☐ Above Grade (AG) ☑ Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose:
- ☐ Perched Monitoring
- ☑ Shallow (Water-Table) Monitoring
- ☐ Intermediate or Deep Monitoring
- ☐ Remediation or Other (describe)

Well Install Method: HAS

Surface Casing Install Method: NA

Borehole Depth	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
12	12	8	8	2 feet by 2 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
2" PVC	☑ Flush-Threaded ☐ Other (describe)	2 feet from 0 feet to 2 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
2" PVC	0.010	10 feet from 2 feet to 12 feet

1st Surface Casing Material: NA also check: ☐ Permanent ☐ Temporary	1st Surface Casing I.D. (inches):	1st Surface Casing Length: feet from feet to feet
2nd Surface Casing Material: NA also check: ☐ Permanent ☐ Temporary	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length: feet from feet to feet
3rd Surface Casing Material: NA also check: ☐ Permanent ☐ Temporary	3rd Surface Casing I.D. (inches): NA	3rd Surface Casing Length: NA feet from 0 feet to NA feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
20/30 SILICA SAND	☐ Yes ☑ No	11 feet from 1 feet to 12 feet

Filter Pack Seal Material and Size: 30/65 SILICA SAND	Filter Pack Seal Length: 0.5 feet from 0.5 feet to 1 feet
GROUT	Surface Seal Length: 0.5 feet from 0 feet to 0.5 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):			
09/18/15	☐ Other (describe)	☐ Surge/Pum	☑ Pump	☐ Compressed Air

Development Pump Type (check):	Depth to Groundwater (before developing in feet):
☑ Centrifugal ☐ Peristaltic ☐ Submersible ☐ Other (describe)	NM

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
2	NM	☐ Yes ☑ No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
☑ Continuous ☐ Intermittent	74	37	☐ Yes ☑ No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
milky / none	none / none

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

DRAFT

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW- 8	FCE 1836	9800891	9/18/15

Well Location and Type (check appropriate boxes):	Well Purpose:	Well Install Method:
☐ On-Site ☐ Right-of-Way ☑ Off-Site Private Property ☐ Above Grade (AG) ☑ Flush-to-Grade If AG, list feet of riser above land surface:	☐ Perched Monitoring ☑ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)	HAS Surface Casing Install Method: NA

Borehole Depth	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
12	12	8	8	2 feet by 2 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
2" PVC	☑ Flush-Threaded ☐ Other (describe)	2 feet from 0 feet to 2 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
2" PVC	0.010	10 feet from 2 feet to 12 feet

1st Surface Casing Material: NA also check: ☐ Permanent ☐ Temporary	1st Surface Casing I.D. (inches):	1st Surface Casing Length: ____ feet from ____ feet to ____ feet
2nd Surface Casing Material: NA also check: ☐ Permanent ☐ Temporary	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length: ____ feet from ____ feet to ____ feet
3rd Surface Casing Material: NA also check: ☐ Permanent ☐ Temporary	3rd Surface Casing I.D. (inches): NA	3rd Surface Casing Length: NA feet from 0 feet to NA feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
20/30 SILICA SAND	☐ Yes ☑ No	11 feet from 1 feet to 12 feet
Filter Pack Seal Material and Size: 30/65 SILICA SAND		Filter Pack Seal Length: 0.5 feet from 0.5 feet to 1 feet
GROUT		Surface Seal Length: 0.5 feet from 0 feet to 0.5 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):	
09/18/15	☐ Other (describe) ☐ Surge/Pum ☑ Pump ☐ Compressed Air	

Development Pump Type (check):	Depth to Groundwater (before developing in feet):
☑ Centrifugal ☐ Peristaltic ☐ Submersible ☐ Other (describe)	NM

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
2	NM	☐ Yes ☐ No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
☑ Continuous ☐ Intermittent	60	30	☐ Yes ☑ No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
milky / none	none / none

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

DRAFT

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW- 9	FCE 1836	9800891	9/18/15

Well Location and Type (check appropriate boxes):
- [x] On-Site
- [ ] Right-of-Way
- [ ] Off-Site Private Property
- [ ] Above Grade (AG)
- [x] Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose:
- [ ] Perched Monitoring
- [x] Shallow (Water-Table) Monitoring
- [ ] Intermediate or Deep Monitoring
- [ ] Remediation or Other (describe)

Well Install Method: HAS

Surface Casing Install Method: NA

Borehole Depth	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
12	12	8	8	2 feet by 2 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
2" PVC	[x] Flush-Threaded [ ] Other (describe)	2 feet from 0 feet to 2 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
2" PVC	0.010	10 feet from 2 feet to 12 feet

1st Surface Casing Material: NA also check: [ ] Permanent [ ] Temporary	1st Surface Casing I.D. (inches):	1st Surface Casing Length: ____ feet from ____ feet to ____ feet
2nd Surface Casing Material: NA also check: [ ] Permanent [ ] Temporary	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length: ____ feet from ____ feet to ____ feet
3rd Surface Casing Material: NA also check: [ ] Permanent [ ] Temporary	3rd Surface Casing I.D. (inches): NA	3rd Surface Casing Length: NA feet from 0 feet to NA feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
20/30 SILICA SAND	[ ] Yes [x] No	11 feet from 1 feet to 12 feet

Filter Pack Seal Material and Size: 30/65 SILICA SAND	Filter Pack Seal Length: 0.5 feet from 0.5 feet to 1 feet
GROUT	Surface Seal Length: 0.5 feet from 0 feet to 0.5 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):	
09/18/15	[ ] Other (describe) [ ] Surge/Pum [x] Pump [ ] Compressed Air	

Development Pump Type (check):	Depth to Groundwater (before developing in feet):
[x] Centrifugal [ ] Peristaltic [ ] Submersible [ ] Other (describe)	NM

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
2	NM	[ ] Yes [x] No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
[x] Continuous [ ] Intermittent	60	30	[ ] Yes [x] No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
milky / none	none / none

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

DRAFT

BORING LOG

Boring/Well Number: MW-10	Permit Number:	FDEP Facility Identification Number: 9800891
Site Name: FCE 1836	Borehole Start Date: 10/30/15 End Date: 10/30/15	Borehole Start Time: 0911 ☒ AM ☐ PM End Time: 1003 ☒ AM ☐ PM
Environmental Contractor: ECOTECH ENV. SVCS., INC.	Geologist's Name: Jrbnb Donaldson ~~PAUL BRACKIN~~ (15)	Environmental Technician's Name: DRILLERS

Drilling Company: EARTH TECH DRILLING	Pavement Thickness (inches): 1"	Borehole Diameter (inches): 10	Borehole Depth (feet): 12'
Drilling Method(s): HSA via DPT	Apparent Borehole DTW (in feet from soil moisture content): ≥4	Measured Well DTW (in feet after water recharges in well): >4	OVA (list model and check type): N/A ☐ FID ☐ ~~PID~~ (10)

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☒ Spread ☐ Backfill ☐ Stockpile ☑ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☒ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary
HA							1	1" Asphalt			
HA							2	1"-9" Road base/Rock fill limerock cobbles-boulders.	SW	D	
HA							3	9"-2.5' 50% limerock fragments, 50% Dark brown mg-fg quartz sand no odor.	SW	M	
HA							4		SW	M	
HA							5		SW	W	
HSA							6	2.5-4' 50% ~~Dark~~ (10) fragmented limerock 50% sand.	SP	S	
							7	4-5' Orange-Brown mg-fg quartz sand			
							8	5'-12' Orange Brown			
							9	mg-fg Quartz sand.			
							10	0-12' no odor/no stains			
							11				
HSA							12'	End @ 12' bls	SP	S	

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

DRAFT

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-10	FCE 1836	9800891	10/30/15

Well Location and Type (check appropriate boxes):
- [x] On-Site
- [ ] Right-of-Way
- [ ] Off-Site Private Property
- [ ] Above Grade (AG)
- [x] Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose:
- [ ] Perched Monitoring
- [x] Shallow (Water-Table) Monitoring
- [ ] Intermediate or Deep Monitoring
- [ ] Remediation or Other (describe)

Well Install Method: HSA

Surface Casing Install Method: NA

Borehole Depth	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
12	12	8	8	2 feet by 2 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
2" sch. 40 PVC	[x] Flush-Threaded [ ] Other (describe)	2 feet from 0 feet to 2 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
2" sch. 40 PVC	0.010	10 feet from 2 feet to 12 feet

1st Surface Casing Material: NA	also check: [ ] ~~Permanent~~ [ ] ~~Temporary~~	1st Surface Casing I.D. (inches):	1st Surface Casing Length: ____ feet from ____ feet to ____ feet
2nd Surface Casing Material: NA	also check: [ ] ~~Permanent~~ [ ] ~~Temporary~~	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length: ____ feet from ____ feet to ____ feet
3rd Surface Casing Material: NA	also check: [ ] Permanent [ ] Temporary	3rd Surface Casing I.D. (inches): NA	3rd Surface Casing Length: NA feet from 0 feet to NA feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
20/30 sand	[ ] Yes [x] No	11 feet from 1 feet to 12 ~~25~~ PB feet

Filter Pack Seal Material and Size:	Filter Pack Seal Length:
30/65 silica sand.	0.5 feet from 0.5 feet to 1 feet

Surface Seal Material:	Surface Seal Length:
grout	0.5 feet from 0 feet to 0.5 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):
10/30/15	[ ] Other (describe) [ ] Surge/Pum [x] Pump [ ] Compressed Air

Development Pump Type (check):	Depth to Groundwater (before developing in feet):
[x] Centrifugal [x] Peristaltic [ ] Submersible [ ] Other (describe)	

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
0.25 centrifugal + persistaltic		[x] Yes [ ] No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
[ ] Continuous [x] Intermittent	7.5 + 5 = 12.5	30 + 20	[ ] Yes [x] No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
light brown/tan no odor	none/none

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

Well developed an additional 20min. using persistaltic pump.

DRAFT

BORING LOG

Boring/Well Number: MW-1	Permit Number:	FDEP Facility Identification Number: 9800891
Site Name: FCE 1836	Borehole Start Date: 10/30/15 End Date: 10/30/15	Borehole Start Time: 1022 ☒ AM ☐ PM End Time: 1125 ☒ AM ☐ PM
Environmental Contractor: ECOTECH ENV. SVCS., INC.	Geologist's Name: Irene Donaldson ~~PAUL BRACKIN~~ ID	Environmental Technician's Name: DRILLERS

Drilling Company: EARTH TECH DRILLING	Pavement Thickness (inches): 1"	Borehole Diameter (inches): 10	Borehole Depth (feet): 12
Drilling Method(s): HSA	Apparent Borehole DTW (in feet from soil moisture content): >4	Measured Well DTW (in feet after water recharges in well): >4	OVA (list model and check type): N/A ☐ ~~PID~~ ☐ FID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☒ Spread ☐ Backfill ☐ Stockpile ☑ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☒ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary
HA							1	0"-1" Asphalt			
HA							2	1"-5' 50% Limerock fragments, 50% orange-braun mg-fg quartz sand No odor / no stains	SW	D	
HA							3		SW	M	
HA							4		SW	M	
HA							5		SW	M	
HSA							6	5'-12' Orange-Braun mg-fg Quartz sand No odor/no staining	SP	W	
							7			S	
							8				
							9				
							10				
HSA							11	end @ 12' bls	SP	S	

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

DRAFT

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-11	FCE 1836	9800891	10/30/15

Well Location and Type (check appropriate boxes):
- [x] On-Site
- [ ] Right-of-Way
- [ ] Off-Site Private Property
- [ ] Above Grade (AG)
- [x] Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose:
- [ ] Perched Monitoring
- [x] Shallow (Water-Table) Monitoring
- [ ] Intermediate or Deep Monitoring
- [ ] Remediation or Other (describe)

Well Install Method: HSA

Surface Casing Install Method: NA

Borehole Depth	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
12	12	8	8	2 feet by 2 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
1" Sch-40 PVC	[x] Flush-Threaded [ ] Other (describe)	2 ~~10~~ feet from 0 ~~2~~ (BB) feet to 2 ~~12~~ feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
2" Sch-40 PVC	0.010	10 ~~7~~ feet (BB) from 2 ~~0~~ feet to 12 ~~2~~ feet

1st Surface Casing Material: NA also check: [ ] ~~Permanent~~ [ ] ~~Temporary~~	1st Surface Casing I.D. (inches):	1st Surface Casing Length: ____ feet from ____ feet to ____ feet
2nd Surface Casing Material: NA also check: [ ] ~~Permanent~~ [ ] ~~Temporary~~	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length: ____ feet from ____ feet to ____ feet
3rd Surface Casing Material: NA also check: [ ] ~~Permanent~~ [ ] ~~Temporary~~	3rd Surface Casing I.D. (inches): NA	3rd Surface Casing Length: NA feet from 0 feet to NA feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
20/30 silica sand	[ ] Yes [x] No	11 feet from 1 feet to 12 feet
Filter Pack Seal Material and Size: 30/65 silica sand		Filter Pack Seal Length: 0.5 feet from 0.5 feet to 1 feet
Surface Seal Material: grout		Surface Seal Length: 0.5 feet from 0 feet to 0.5 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):	
10/30/15	[ ] Other (describe) [ ] Surge/Pum [x] Pump [ ] Compressed Air	

Development Pump Type (check):	Depth to Groundwater (before developing in feet):
[x] Centrifugal [x] Peristaltic [ ] Submersible [ ] Other (describe)	

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
(BB) ~~2~~ 2		[ ] Yes [x] No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
[x] Continuous [ ] Intermittent	(BB) ~~7.5~~ 60	~~3~~ 30 (BB)	[ ] Yes [x] No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
tan-brown / none	none / none

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

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BORING LOG

Page 1 of 1

Boring/Well Number: MW-12	Permit Number:	FDEP Facility Identification Number: 9800891
Site Name: FCE 1836	Borehole Start Date: 10/30/15 End Date: 10/30/15	Borehole Start Time: 1140 ☒ AM ☐ PM End Time: 1240 ☐ AM ☒ PM
Environmental Contractor: ECOTECH ENV. SVCS., INC.	Geologist's Name: Irene Donaldson ~~PAUL BRACKIN~~ (TD)	Environmental Technician's Name: DRILLERS

Drilling Company: EARTH TECH DRILLING	Pavement Thickness (inches): 1"	Borehole Diameter (inches): 10	Borehole Depth (feet): 12
Drilling Method(s): HSA	Apparent Borehole DTW (in feet from soil moisture content): >4	Measured Well DTW (in feet after water recharges in well): >4	OVA (list model and check type): ~~☐ FID~~ ☐ (TD)

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☒ Spread ☐ Backfill ☐ Stockpile ☒ Other
(describe if other or multiple items are checked):

Borehole Completion (check one): ☒ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary
							1	0-1" Asphalt			
HA							2	1"-5': 30% Limerock fragments, 20% Limerock boulders	SW	D	
HA							3	50% Brown-Grey Br	SW	M	
							4	mg-fg Quartz Sand.	SW	M	
HSA							5		SW	W	
							6	5-12' bls: orange/brown mg qtz sand. No staining or odors.	SP	S	
							7				
							8				
							9				
							10				
							11				
HSA								End @12' bls no odor/ no staining	SP	S	

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings
Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

DRAFT

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-12	FCE 1836	9800891	10/30/15

Well Location and Type (check appropriate boxes):
- [x] On-Site
- [ ] Right-of-Way
- [ ] Off-Site Private Property
- [ ] Above Grade (AG)
- [x] Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose:
- [ ] Perched Monitoring
- [x] Shallow (Water-Table) Monitoring
- [ ] Intermediate or Deep Monitoring
- [ ] Remediation or Other (describe)

Well Install Method: HSA

Surface Casing Install Method: NA

Borehole Depth	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
12	12	8	8	2 feet by 2 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
2" sch.40 PVC	[x] Flush-Threaded [ ] Other (describe)	2 ~~10~~ feet from 0 ~~0~~ feet to 2 ~~12~~ feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
2" sch.40 PVC	0.010	10 feet from 2 feet to 12 feet

1st Surface Casing Material: NA also check: [ ] Permanent [ ] Temporary	1st Surface Casing I.D. (inches):	1st Surface Casing Length: feet from feet to feet
2nd Surface Casing Material: NA also check: [ ] Permanent [ ] Temporary	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length: feet from feet to feet
3rd Surface Casing Material: NA also check: [ ] Permanent [ ] Temporary	3rd Surface Casing I.D. (inches): NA	3rd Surface Casing Length: NA feet from 0 feet to NA feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
20/30	[ ] Yes [x] No	11 feet from 1 feet to 12 feet

Filter Pack Seal Material and Size:	Filter Pack Seal Length:
30/65	0.5 feet from 0.5 feet to 1 feet

Surface Seal Material:	Surface Seal Length:
grout	~~0.5~~ feet from ~~0~~ 0 feet to 0.5 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):
10/30/15	[ ] Other (describe) [ ] Surge/Pump [x] Pump [ ] Compressed Air

Development Pump Type (check):	Depth to Groundwater (before developing in feet):
[x] Centrifugal [ ] Peristaltic [ ] Submersible [ ] Other (describe)	

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
2		[ ] Yes [x] No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
[x] Continuous [ ] Intermittent	50	25	[ ] Yes [x] No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
tan-brown / none	none / none

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

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ATTACHMENT C

COPIES OF GROUNDWATER LABORATORY ANALYTICAL REPORTS

DRAFT

Advanced
Environmental Laboratories, Inc.

Advanced Environmental Laboratories, Inc
10200 USA Today Way Miramar, FL 33025
Payments: P.O. Box 551580 Jacksonville, FL 32255-1580
Phone: (954)889-2288
Fax: (954)889-2281

July 9, 2015

Irene Giovenco Donaldson
Ecotech Environmental Services, Inc.
3260 NW 23rd Avenue Ste 1400-E
Pompano Beach, FL 33069

RE: Workorder: M1502359 FCE 1836

Dear Irene Donaldson:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday, July 02, 2015. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kathy Williams
KWilliams@AELLab.com

Enclosures

DRAFT

CERTIFICATE OF ANALYSIS

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without the written consent of Advanced Environmental Laboratories, Inc.

Advanced Environmental Laboratories, Inc.

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10200 USA Today Way Miramar, FL 33025
Payments: P.O. Box 551580 Jacksonville, FL 32255-1580
Phone: (954)889-2288
Fax: (954)889-2281

SAMPLE SUMMARY

Workorder: M1502359 FCE 1836

Lab ID	Sample ID	Matrix	Date Collected	Date Received
M1502359001	MW-1	Water	7/2/2015 11:50	7/2/2015 12:42
M1502359002	MW-2	Water	7/2/2015 09:57	7/2/2015 12:42
M1502359003	MW-3	Water	7/2/2015 10:20	7/2/2015 12:42
M1502359004	MW-4	Water	7/2/2015 10:50	7/2/2015 12:42
M1502359005	MW-5	Water	7/2/2015 11:15	7/2/2015 12:42

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ANALYTICAL RESULTS

Workorder: M1502359 FCE 1836

Lab ID: **M1502359001** Date Received: 07/02/15 12:42 Matrix: Water
Sample ID: **MW-1** Date Collected: 07/02/15 11:50

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: Flo-Pro Analysis, Water	Preparation Method: FL-PRO Analytical Method: FL-PRO							
TPH	180	U	ug/L	1	420	180	7/6/2015 20:31	M
o-Terphenyl (S)	88		%	1	82-142		7/6/2015 20:31	
Nonatricontane-C39 (S)	49		%	1	42-193		7/6/2015 20:31	
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	0.041	U	ug/L	1	0.20	0.041	7/7/2015 04:47	M
2-Methylnaphthalene	0.044	U	ug/L	1	0.20	0.044	7/7/2015 04:47	M
Acenaphthene	0.048	U	ug/L	1	0.20	0.048	7/7/2015 04:47	M
Acenaphthylene	0.030	U	ug/L	1	0.20	0.030	7/7/2015 04:47	M
Anthracene	0.022	U	ug/L	1	0.20	0.022	7/7/2015 04:47	M
Benzo[a]anthracene	0.026	U	ug/L	1	0.20	0.026	7/7/2015 04:47	M
Benzo[a]pyrene	0.032	U	ug/L	1	0.20	0.032	7/7/2015 04:47	M
Benzo[b]fluoranthene	0.030	U	ug/L	1	0.10	0.030	7/7/2015 04:47	M
Benzo[g,h,i]perylene	0.033	U	ug/L	1	0.20	0.033	7/7/2015 04:47	M
Benzo[k]fluoranthene	0.033	U	ug/L	1	0.20	0.033	7/7/2015 04:47	M
Chrysene	0.027	U	ug/L	1	0.20	0.027	7/7/2015 04:47	M
Dibenzo[a,h]anthracene	0.029	U	ug/L	1	0.20	0.029	7/7/2015 04:47	M
Fluoranthene	0.036	U	ug/L	1	0.20	0.036	7/7/2015 04:47	M
Fluorene	0.036	U	ug/L	1	0.20	0.036	7/7/2015 04:47	M
Indeno(1,2,3-cd)pyrene	0.034	U	ug/L	1	0.20	0.034	7/7/2015 04:47	M
Naphthalene	0.050	U	ug/L	1	0.20	0.050	7/7/2015 04:47	M
Phenanthrene	0.051	U	ug/L	1	0.20	0.051	7/7/2015 04:47	M
Pyrene	0.036	U	ug/L	1	0.20	0.036	7/7/2015 04:47	M
Nitrobenzene-d5 (S)	58		%	1	32-147		7/7/2015 04:47	
2-Fluorobiphenyl (S)	60		%	1	34-140		7/7/2015 04:47	
p-Terphenyl-d14 (S)	66		%	1	54-138		7/7/2015 04:47	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	1.9		ug/L	1	1.0	0.36	7/8/2015 12:56	M
Ethylbenzene	0.38	U	ug/L	1	1.0	0.38	7/8/2015 12:56	M
Methyl tert-butyl Ether (MTBE)	0.24	U	ug/L	1	1.0	0.24	7/8/2015 12:56	M
Toluene	0.49	U	ug/L	1	1.0	0.49	7/8/2015 12:56	M

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ANALYTICAL RESULTS

Workorder: M1502359 FCE 1836

Lab ID: **M1502359001** Date Received: 07/02/15 12:42 Matrix: Water
Sample ID: **MW-1** Date Collected: 07/02/15 11:50

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Xylene (Total)	**1.1**	**U**	**ug/L**	**1**	2.0	1.1	7/8/2015 12:56	M
1,2-Dichloroethane-d4 (S)	**117**		**%**	**1**	70-130		7/8/2015 12:56	
Toluene-d8 (S)	**107**		**%**	**1**	70-130		7/8/2015 12:56	
Bromofluorobenzene (S)	**117**		**%**	**1**	70-130		7/8/2015 12:56	

Lab ID: **M1502359002** Date Received: 07/02/15 12:42 Matrix: Water
Sample ID: **MW-2** Date Collected: 07/02/15 09:57

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: Flo-Pro Analysis, Water	Preparation Method: FL-PRO Analytical Method: FL-PRO							
TPH	**570**		**ug/L**	**1**	420	180	7/6/2015 21:01	M
o-Terphenyl (S)	**133**		**%**	**1**	82-142		7/6/2015 21:01	
Nonatricontane-C39 (S)	**62**		**%**	**1**	42-193		7/6/2015 21:01	
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**0.81**		**ug/L**	**1**	0.20	0.041	7/7/2015 05:15	M
2-Methylnaphthalene	**0.30**		**ug/L**	**1**	0.20	0.044	7/7/2015 05:15	M
Acenaphthene	**0.048**	**U**	**ug/L**	**1**	0.20	0.048	7/7/2015 05:15	M
Acenaphthylene	**0.030**	**U**	**ug/L**	**1**	0.20	0.030	7/7/2015 05:15	M
Anthracene	**0.022**	**U**	**ug/L**	**1**	0.20	0.022	7/7/2015 05:15	M
Benzo[a]anthracene	**0.026**	**U**	**ug/L**	**1**	0.20	0.026	7/7/2015 05:15	M
Benzo[a]pyrene	**0.032**	**U**	**ug/L**	**1**	0.20	0.032	7/7/2015 05:15	M
Benzo[b]fluoranthene	**0.030**	**U**	**ug/L**	**1**	0.10	0.030	7/7/2015 05:15	M
Benzo[g,h,i]perylene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	7/7/2015 05:15	M
Benzo[k]fluoranthene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	7/7/2015 05:15	M
Chrysene	**0.027**	**U**	**ug/L**	**1**	0.20	0.027	7/7/2015 05:15	M
Dibenzo[a,h]anthracene	**0.029**	**U**	**ug/L**	**1**	0.20	0.029	7/7/2015 05:15	M
Fluoranthene	**0.036**	**U**	**ug/L**	**1**	0.20	0.036	7/7/2015 05:15	M
Fluorene	**0.18**	**I**	**ug/L**	**1**	0.20	0.036	7/7/2015 05:15	M
Indeno(1,2,3-cd)pyrene	**0.034**	**U**	**ug/L**	**1**	0.20	0.034	7/7/2015 05:15	M
Naphthalene	**1.6**		**ug/L**	**1**	0.20	0.050	7/7/2015 05:15	M

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ANALYTICAL RESULTS

Workorder: M1502359 FCE 1836

Lab ID: **M1502359002** Date Received: 07/02/15 12:42 Matrix: Water
Sample ID: **MW-2** Date Collected: 07/02/15 09:57

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Phenanthrene	0.051	U	ug/L	1	0.20	0.051	7/7/2015 05:15	M
Pyrene	0.036	U	ug/L	1	0.20	0.036	7/7/2015 05:15	M
Nitrobenzene-d5 (S)	46		%	1	32-147		7/7/2015 05:15	
2-Fluorobiphenyl (S)	57		%	1	34-140		7/7/2015 05:15	
p-Terphenyl-d14 (S)	77		%	1	54-138		7/7/2015 05:15	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	35		ug/L	1	1.0	0.36	7/8/2015 13:29	M
Ethylbenzene	1.2		ug/L	1	1.0	0.38	7/8/2015 13:29	M
Methyl tert-butyl Ether (MTBE)	0.24	U	ug/L	1	1.0	0.24	7/8/2015 13:29	M
Toluene	9.6		ug/L	1	1.0	0.49	7/8/2015 13:29	M
Xylene (Total)	24		ug/L	1	2.0	1.1	7/8/2015 13:29	M
1,2-Dichloroethane-d4 (S)	117		%	1	70-130		7/8/2015 13:29	
Toluene-d8 (S)	109		%	1	70-130		7/8/2015 13:29	
Bromofluorobenzene (S)	116		%	1	70-130		7/8/2015 13:29	

Lab ID: **M1502359003** Date Received: 07/02/15 12:42 Matrix: Water
Sample ID: **MW-3** Date Collected: 07/02/15 10:20

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: Flo-Pro Analysis, Water	Preparation Method: FL-PRO Analytical Method: FL-PRO							
TPH	180	U	ug/L	1	420	180	7/6/2015 21:30	M
o-Terphenyl (S)	107		%	1	82-142		7/6/2015 21:30	
Nonatricontane-C39 (S)	49		%	1	42-193		7/6/2015 21:30	
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	0.041	U	ug/L	1	0.20	0.041	7/7/2015 05:42	M
2-Methylnaphthalene	0.044	U	ug/L	1	0.20	0.044	7/7/2015 05:42	M
Acenaphthene	0.048	U	ug/L	1	0.20	0.048	7/7/2015 05:42	M

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ANALYTICAL RESULTS

Workorder: M1502359 FCE 1836

Lab ID: **M1502359003** Date Received: 07/02/15 12:42 Matrix: Water
Sample ID: **MW-3** Date Collected: 07/02/15 10:20

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Acenaphthylene	0.030	U	ug/L	1	0.20	0.030	7/7/2015 05:42	M
Anthracene	0.022	U	ug/L	1	0.20	0.022	7/7/2015 05:42	M
Benzo[a]anthracene	0.026	U	ug/L	1	0.20	0.026	7/7/2015 05:42	M
Benzo[a]pyrene	0.032	U	ug/L	1	0.20	0.032	7/7/2015 05:42	M
Benzo[b]fluoranthene	0.030	U	ug/L	1	0.10	0.030	7/7/2015 05:42	M
Benzo[g,h,i]perylene	0.033	U	ug/L	1	0.20	0.033	7/7/2015 05:42	M
Benzo[k]fluoranthene	0.033	U	ug/L	1	0.20	0.033	7/7/2015 05:42	M
Chrysene	0.027	U	ug/L	1	0.20	0.027	7/7/2015 05:42	M
Dibenzo[a,h]anthracene	0.029	U	ug/L	1	0.20	0.029	7/7/2015 05:42	M
Fluoranthene	0.036	U	ug/L	1	0.20	0.036	7/7/2015 05:42	M
Fluorene	0.036	U	ug/L	1	0.20	0.036	7/7/2015 05:42	M
Indeno(1,2,3-cd)pyrene	0.034	U	ug/L	1	0.20	0.034	7/7/2015 05:42	M
Naphthalene	0.050	U	ug/L	1	0.20	0.050	7/7/2015 05:42	M
Phenanthrene	0.051	U	ug/L	1	0.20	0.051	7/7/2015 05:42	M
Pyrene	0.036	U	ug/L	1	0.20	0.036	7/7/2015 05:42	M
Nitrobenzene-d5 (S)	72		%	1	32-147		7/7/2015 05:42	
2-Fluorobiphenyl (S)	71		%	1	34-140		7/7/2015 05:42	
p-Terphenyl-d14 (S)	70		%	1	54-138		7/7/2015 05:42	

VOLATILES

Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	0.36	U	ug/L	1	1.0	0.36	7/8/2015 14:03	M
Ethylbenzene	0.38	U	ug/L	1	1.0	0.38	7/8/2015 14:03	M
Methyl tert-butyl Ether (MTBE)	0.24	U	ug/L	1	1.0	0.24	7/8/2015 14:03	M
Toluene	0.49	U	ug/L	1	1.0	0.49	7/8/2015 14:03	M
Xylene (Total)	1.1	U	ug/L	1	2.0	1.1	7/8/2015 14:03	M
1,2-Dichloroethane-d4 (S)	115		%	1	70-130		7/8/2015 14:03	
Toluene-d8 (S)	106		%	1	70-130		7/8/2015 14:03	
Bromofluorobenzene (S)	115		%	1	70-130		7/8/2015 14:03	

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ANALYTICAL RESULTS

Workorder: M1502359 FCE 1836

Lab ID: **M1502359004** Date Received: 07/02/15 12:42 Matrix: Water
Sample ID: **MW-4** Date Collected: 07/02/15 10:50

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: Flo-Pro Analysis, Water	Preparation Method: FL-PRO Analytical Method: FL-PRO							
TPH	180	U	ug/L	1	420	180	7/6/2015 21:59	M
o-Terphenyl (S)	98		%	1	82-142		7/6/2015 21:59	
Nonatricontane-C39 (S)	64		%	1	42-193		7/6/2015 21:59	
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	0.041	U	ug/L	1	0.20	0.041	7/7/2015 06:10	M
2-Methylnaphthalene	0.044	U	ug/L	1	0.20	0.044	7/7/2015 06:10	M
Acenaphthene	0.048	U	ug/L	1	0.20	0.048	7/7/2015 06:10	M
Acenaphthylene	0.030	U	ug/L	1	0.20	0.030	7/7/2015 06:10	M
Anthracene	0.022	U	ug/L	1	0.20	0.022	7/7/2015 06:10	M
Benzo[a]anthracene	0.026	U	ug/L	1	0.20	0.026	7/7/2015 06:10	M
Benzo[a]pyrene	0.032	U	ug/L	1	0.20	0.032	7/7/2015 06:10	M
Benzo[b]fluoranthene	0.030	U	ug/L	1	0.10	0.030	7/7/2015 06:10	M
Benzo[g,h,i]perylene	0.033	U	ug/L	1	0.20	0.033	7/7/2015 06:10	M
Benzo[k]fluoranthene	0.033	U	ug/L	1	0.20	0.033	7/7/2015 06:10	M
Chrysene	0.027	U	ug/L	1	0.20	0.027	7/7/2015 06:10	M
Dibenzo[a,h]anthracene	0.029	U	ug/L	1	0.20	0.029	7/7/2015 06:10	M
Fluoranthene	0.036	U	ug/L	1	0.20	0.036	7/7/2015 06:10	M
Fluorene	0.036	U	ug/L	1	0.20	0.036	7/7/2015 06:10	M
Indeno(1,2,3-cd)pyrene	0.034	U	ug/L	1	0.20	0.034	7/7/2015 06:10	M
Naphthalene	0.050	U	ug/L	1	0.20	0.050	7/7/2015 06:10	M
Phenanthrene	0.051	U	ug/L	1	0.20	0.051	7/7/2015 06:10	M
Pyrene	0.036	U	ug/L	1	0.20	0.036	7/7/2015 06:10	M
Nitrobenzene-d5 (S)	70		%	1	32-147		7/7/2015 06:10	
2-Fluorobiphenyl (S)	68		%	1	34-140		7/7/2015 06:10	
p-Terphenyl-d14 (S)	69		%	1	54-138		7/7/2015 06:10	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	0.36	U	ug/L	1	1.0	0.36	7/8/2015 14:36	M
Ethylbenzene	0.38	U	ug/L	1	1.0	0.38	7/8/2015 14:36	M
Methyl tert-butyl Ether (MTBE)	0.24	U	ug/L	1	1.0	0.24	7/8/2015 14:36	M
Toluene	0.49	U	ug/L	1	1.0	0.49	7/8/2015 14:36	M

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ANALYTICAL RESULTS

Workorder: M1502359 FCE 1836

Lab ID: **M1502359004** Date Received: 07/02/15 12:42 Matrix: Water
Sample ID: **MW-4** Date Collected: 07/02/15 10:50

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Xylene (Total)	1.1	U	ug/L	1	2.0	1.1	7/8/2015 14:36	M
1,2-Dichloroethane-d4 (S)	116		%	1	70-130		7/8/2015 14:36	
Toluene-d8 (S)	109		%	1	70-130		7/8/2015 14:36	
Bromofluorobenzene (S)	117		%	1	70-130		7/8/2015 14:36	

Lab ID: **M1502359005** Date Received: 07/02/15 12:42 Matrix: Water
Sample ID: **MW-5** Date Collected: 07/02/15 11:15

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: Flo-Pro Analysis, Water	Preparation Method: FL-PRO Analytical Method: FL-PRO							
TPH	180	U	ug/L	1	420	180	7/6/2015 22:28	M
o-Terphenyl (S)	86		%	1	82-142		7/6/2015 22:28	
Nonatricontane-C39 (S)	63		%	1	42-193		7/6/2015 22:28	
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	0.041	U	ug/L	1	0.20	0.041	7/7/2015 06:37	M
2-Methylnaphthalene	0.044	U	ug/L	1	0.20	0.044	7/7/2015 06:37	M
Acenaphthene	0.048	U	ug/L	1	0.20	0.048	7/7/2015 06:37	M
Acenaphthylene	0.030	U	ug/L	1	0.20	0.030	7/7/2015 06:37	M
Anthracene	0.022	U	ug/L	1	0.20	0.022	7/7/2015 06:37	M
Benzo[a]anthracene	0.026	U	ug/L	1	0.20	0.026	7/7/2015 06:37	M
Benzo[a]pyrene	0.032	U	ug/L	1	0.20	0.032	7/7/2015 06:37	M
Benzo[b]fluoranthene	0.030	U	ug/L	1	0.10	0.030	7/7/2015 06:37	M
Benzo[g,h,i]perylene	0.033	U	ug/L	1	0.20	0.033	7/7/2015 06:37	M
Benzo[k]fluoranthene	0.033	U	ug/L	1	0.20	0.033	7/7/2015 06:37	M
Chrysene	0.027	U	ug/L	1	0.20	0.027	7/7/2015 06:37	M
Dibenzo[a,h]anthracene	0.029	U	ug/L	1	0.20	0.029	7/7/2015 06:37	M
Fluoranthene	0.036	U	ug/L	1	0.20	0.036	7/7/2015 06:37	M
Fluorene	0.036	U	ug/L	1	0.20	0.036	7/7/2015 06:37	M
Indeno(1,2,3-cd)pyrene	0.034	U	ug/L	1	0.20	0.034	7/7/2015 06:37	M
Naphthalene	0.050	U	ug/L	1	0.20	0.050	7/7/2015 06:37	M

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ANALYTICAL RESULTS

Workorder: M1502359 FCE 1836

Lab ID: **M1502359005** Date Received: 07/02/15 12:42 Matrix: Water
Sample ID: **MW-5** Date Collected: 07/02/15 11:15

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Phenanthrene	0.051	U	ug/L	1	0.20	0.051	7/7/2015 06:37	M
Pyrene	0.036	U	ug/L	1	0.20	0.036	7/7/2015 06:37	M
Nitrobenzene-d5 (S)	115		%	1	32-147		7/7/2015 06:37	
2-Fluorobiphenyl (S)	108		%	1	34-140		7/7/2015 06:37	
p-Terphenyl-d14 (S)	106		%	1	54-138		7/7/2015 06:37	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B							
	Analytical Method: SW-846 8260B							
Benzene	0.36	U	ug/L	1	1.0	0.36	7/8/2015 15:10	M
Ethylbenzene	0.38	U	ug/L	1	1.0	0.38	7/8/2015 15:10	M
Methyl tert-butyl Ether (MTBE)	0.24	U	ug/L	1	1.0	0.24	7/8/2015 15:10	M
Toluene	0.49	U	ug/L	1	1.0	0.49	7/8/2015 15:10	M
Xylene (Total)	1.1	U	ug/L	1	2.0	1.1	7/8/2015 15:10	M
1,2-Dichloroethane-d4 (S)	118		%	1	70-130		7/8/2015 15:10	
Toluene-d8 (S)	107		%	1	70-130		7/8/2015 15:10	
Bromofluorobenzene (S)	117		%	1	70-130		7/8/2015 15:10	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: M1502359 FCE 1836

PARAMETER QUALIFIERS

U 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.

LAB QUALIFIERS

M DOH Certification #E82535(AEL-M)(FL NELAC Certification)

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QUALITY CONTROL DATA

Workorder: M1502359 FCE 1836

QC Batch: EXTm/1494 Analysis Method: FL-PRO
QC Batch Method: FL-PRO Prepared: 07/06/2015 12:00
Associated Lab Samples: M1502359001, M1502359002, M1502359003, M1502359004, M1502359005

METHOD BLANK: 1789314

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
TPH	ug/L	180	180	U
o-Terphenyl (S)	%	88	82-142	
Nonatricontane-C39 (S)	%	85	42-193	

QC Batch: EXTm/1496 Analysis Method: SW-846 8270C (SIM)
QC Batch Method: SW-846 3510C Prepared: 07/06/2015 12:00
Associated Lab Samples: M1502359001, M1502359002, M1502359003, M1502359004, M1502359005

METHOD BLANK: 1789973

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
Naphthalene	ug/L	0.050	0.050	U
2-Methylnaphthalene	ug/L	0.044	0.044	U
1-Methylnaphthalene	ug/L	0.041	0.041	U
Acenaphthylene	ug/L	0.030	0.030	U
Acenaphthene	ug/L	0.048	0.048	U
Fluorene	ug/L	0.036	0.036	U
Phenanthrene	ug/L	0.051	0.051	U
Anthracene	ug/L	0.022	0.022	U
Fluoranthene	ug/L	0.036	0.036	U
Pyrene	ug/L	0.036	0.036	U
Benzo[a]anthracene	ug/L	0.026	0.026	U
Chrysene	ug/L	0.027	0.027	U
Benzo[b]fluoranthene	ug/L	0.030	0.030	U
Benzo[k]fluoranthene	ug/L	0.033	0.033	U
Benzo[a]pyrene	ug/L	0.032	0.032	U
Indeno(1,2,3-cd)pyrene	ug/L	0.034	0.034	U
Dibenzo[a,h]anthracene	ug/L	0.029	0.029	U
Benzo[g,h,i]perylene	ug/L	0.033	0.033	U
Nitrobenzene-d5 (S)	%	76	32-147	
2-Fluorobiphenyl (S)	%	76	34-140	
p-Terphenyl-d14 (S)	%	71	54-138	

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QUALITY CONTROL DATA

Workorder: M1502359 FCE 1836

QC Batch:	MSVm/1487	Analysis Method:	SW-846 8260B
QC Batch Method:	SW-846 5030B	Prepared:	07/08/2015 00:00

Associated Lab Samples: M1502359001, M1502359002, M1502359003, M1502359004, M1502359005

METHOD BLANK: 1792778

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Methyl tert-butyl Ether (MTBE)	ug/L	0.24	0.24	U
Benzene	ug/L	0.36	0.36	U
Toluene	ug/L	0.49	0.49	U
Ethylbenzene	ug/L	0.38	0.38	U
Xylene (Total)	ug/L	1.1	1.1	U
1,2-Dichloroethane-d4 (S)	%	119	70-130	
Toluene-d8 (S)	%	108	70-130	
Bromofluorobenzene (S)	%	114	70-130	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: M1502359 FCE 1836

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
M1502359001	MW-1	FL-PRO	EXTm/1494	FL-PRO	GCSm/1314
M1502359002	MW-2	FL-PRO	EXTm/1494	FL-PRO	GCSm/1314
M1502359003	MW-3	FL-PRO	EXTm/1494	FL-PRO	GCSm/1314
M1502359004	MW-4	FL-PRO	EXTm/1494	FL-PRO	GCSm/1314
M1502359005	MW-5	FL-PRO	EXTm/1494	FL-PRO	GCSm/1314
M1502359001	MW-1	SW-846 3510C	EXTm/1496	SW-846 8270C (SIM)	MSSm/1182
M1502359002	MW-2	SW-846 3510C	EXTm/1496	SW-846 8270C (SIM)	MSSm/1182
M1502359003	MW-3	SW-846 3510C	EXTm/1496	SW-846 8270C (SIM)	MSSm/1182
M1502359004	MW-4	SW-846 3510C	EXTm/1496	SW-846 8270C (SIM)	MSSm/1182
M1502359005	MW-5	SW-846 3510C	EXTm/1496	SW-846 8270C (SIM)	MSSm/1182
M1502359001	MW-1	SW-846 5030B	MSVm/1487	SW-846 8260B	MSVm/1488
M1502359002	MW-2	SW-846 5030B	MSVm/1487	SW-846 8260B	MSVm/1488
M1502359003	MW-3	SW-846 5030B	MSVm/1487	SW-846 8260B	MSVm/1488
M1502359004	MW-4	SW-846 5030B	MSVm/1487	SW-846 8260B	MSVm/1488
M1502359005	MW-5	SW-846 5030B	MSVm/1487	SW-846 8260B	MSVm/1488

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☐ **Tallahassee:** 1288 Cedar Center Drive, Tallahassee, FL 3230
☐ **Tampa:** 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630

M1502359

Client Name: ECOTECH ENV. SVCS., INC.	Project Name: FCE 1836
Address: 3260 NW 23 AVE, STE 1400E	P.O. Number/Project Number: 0515053
POMPANO BEACH, FL 33069	
Phone: 954-973-7792	FDEP Facility No: 9800891
FAX: 954-973-7795	Project Name and Address:
Contact: I. DONALDSON	1011 SOUTH POWERLINE RD., DEERFIELD BEACH, FL
Sampled By: P.BRACKIN	
Turn Around Time: ☐ STANDARD ☐ RUSH	Special Instructions: NON-PROGRAM CASH RATES
Page 1OF 1	☐ ADaPT ☐ EQuIS

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	BOTTLE SIZE & TYPE	ANALYSIS REQUIRED: BTEX/MTBE	PAH	TRPH-FLPRO								LABORATORY I.D. NUMBER
MW-1		grab	7/2/15	1150	GW	4 5HB			X	X	X								001
MW-2		↑	↑	957	GW	4 5HB			X	X	X								002
MW-3				1020	GW	4 5HB			X	X	X								003
MW-4		↓	↓	1050	GW	4 5HB			X	X	X								004
MW-5		grab	7/2/15	1115	GW	4 5HB			X	X	X								005

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge Preservation Code: I = Ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on ice ☒ Yes ☐ No ☒ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received 18.3 (in degrees celcius)

DCN: AD-051 Form last revised 08/18/2014 Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A (ME3A) S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	Paul Brackin	7/2/15	1242		7/2/15	1242
2						
3						
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID:_____
Contact Person:_____ Phone :_____
Supplier of Water:_____
Site-Address:_____

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September 24, 2015

Irene Giovenco Donaldson
Ecotech Environmental Services, Inc.
3260 NW 23rd Avenue Ste 1400-E
Pompano Beach, FL 33069

RE: Workorder: M1503396 FCE 1836

Dear Irene Donaldson:

Enclosed are the analytical results for sample(s) received by the laboratory on Tuesday, September 22, 2015. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kathy Williams
KWilliams@AELLab.com

Enclosures

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SAMPLE SUMMARY

Workorder: M1503396 FCE 1836

Lab ID	Sample ID	Matrix	Date Collected	Date Received
M1503396001	MW-1	Water	9/22/2015 13:52	9/22/2015 15:40
M1503396002	MW-2	Water	9/22/2015 12:32	9/22/2015 15:40
M1503396003	MW-6	Water	9/22/2015 15:00	9/22/2015 15:40
M1503396004	MW-7	Water	9/22/2015 12:57	9/22/2015 15:40
M1503396005	MW-8	Water	9/22/2015 13:24	9/22/2015 15:40
M1503396006	MW-9	Water	9/22/2015 14:17	9/22/2015 15:40

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ANALYTICAL RESULTS

Workorder: M1503396 FCE 1836

Lab ID: **M1503396001** Date Received: 09/22/15 15:40 Matrix: Water
Sample ID: **MW-1** Date Collected: 09/22/15 13:52

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	31		ug/L	1	1.0	0.36	9/23/2015 16:52	M
Ethylbenzene	0.41	I	ug/L	1	1.0	0.38	9/23/2015 16:52	M
Methyl tert-butyl Ether (MTBE)	0.24	U	ug/L	1	1.0	0.24	9/23/2015 16:52	M
Toluene	6.5		ug/L	1	1.0	0.49	9/23/2015 16:52	M
Xylene (Total)	14		ug/L	1	2.0	1.1	9/23/2015 16:52	M
1,2-Dichloroethane-d4 (S)	96		%	1	77-125		9/23/2015 16:52	
Toluene-d8 (S)	104		%	1	80-121		9/23/2015 16:52	
Bromofluorobenzene (S)	108		%	1	80-129		9/23/2015 16:52	

Lab ID: **M1503396002** Date Received: 09/22/15 15:40 Matrix: Water
Sample ID: **MW-2** Date Collected: 09/22/15 12:32

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	0.36	U	ug/L	1	1.0	0.36	9/23/2015 17:21	M
Ethylbenzene	0.38	U	ug/L	1	1.0	0.38	9/23/2015 17:21	M
Methyl tert-butyl Ether (MTBE)	0.24	U	ug/L	1	1.0	0.24	9/23/2015 17:21	M
Toluene	0.49	U	ug/L	1	1.0	0.49	9/23/2015 17:21	M
Xylene (Total)	1.1	U	ug/L	1	2.0	1.1	9/23/2015 17:21	M
1,2-Dichloroethane-d4 (S)	95		%	1	77-125		9/23/2015 17:21	
Toluene-d8 (S)	100		%	1	80-121		9/23/2015 17:21	
Bromofluorobenzene (S)	105		%	1	80-129		9/23/2015 17:21	

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ANALYTICAL RESULTS

Workorder: M1503396 FCE 1836

Lab ID: **M1503396003** Date Received: 09/22/15 15:40 Matrix: Water
Sample ID: **MW-6** Date Collected: 09/22/15 15:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	10		ug/L	1	1.0	0.36	9/23/2015 17:51	M
Ethylbenzene	0.40	I	ug/L	1	1.0	0.38	9/23/2015 17:51	M
Methyl tert-butyl Ether (MTBE)	0.24	U	ug/L	1	1.0	0.24	9/23/2015 17:51	M
Toluene	3.1		ug/L	1	1.0	0.49	9/23/2015 17:51	M
Xylene (Total)	7.5		ug/L	1	2.0	1.1	9/23/2015 17:51	M
1,2-Dichloroethane-d4 (S)	98		%	1	77-125		9/23/2015 17:51	
Toluene-d8 (S)	105		%	1	80-121		9/23/2015 17:51	
Bromofluorobenzene (S)	103		%	1	80-129		9/23/2015 17:51	

Lab ID: **M1503396004** Date Received: 09/22/15 15:40 Matrix: Water
Sample ID: **MW-7** Date Collected: 09/22/15 12:57

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	0.36	U	ug/L	1	1.0	0.36	9/23/2015 18:21	M
Ethylbenzene	0.38	U	ug/L	1	1.0	0.38	9/23/2015 18:21	M
Methyl tert-butyl Ether (MTBE)	0.24	U	ug/L	1	1.0	0.24	9/23/2015 18:21	M
Toluene	0.49	U	ug/L	1	1.0	0.49	9/23/2015 18:21	M
Xylene (Total)	1.1	U	ug/L	1	2.0	1.1	9/23/2015 18:21	M
1,2-Dichloroethane-d4 (S)	100		%	1	77-125		9/23/2015 18:21	
Toluene-d8 (S)	101		%	1	80-121		9/23/2015 18:21	
Bromofluorobenzene (S)	102		%	1	80-129		9/23/2015 18:21	

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ANALYTICAL RESULTS

Workorder: M1503396 FCE 1836

Lab ID: **M1503396005** Date Received: 09/22/15 15:40 Matrix: Water
Sample ID: **MW-8** Date Collected: 09/22/15 13:24

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	0.36	U	ug/L	1	1.0	0.36	9/23/2015 18:50	M
Ethylbenzene	0.38	U	ug/L	1	1.0	0.38	9/23/2015 18:50	M
Methyl tert-butyl Ether (MTBE)	0.24	U	ug/L	1	1.0	0.24	9/23/2015 18:50	M
Toluene	0.49	U	ug/L	1	1.0	0.49	9/23/2015 18:50	M
Xylene (Total)	1.1	U	ug/L	1	2.0	1.1	9/23/2015 18:50	M
1,2-Dichloroethane-d4 (S)	93		%	1	77-125		9/23/2015 18:50	
Toluene-d8 (S)	102		%	1	80-121		9/23/2015 18:50	
Bromofluorobenzene (S)	101		%	1	80-129		9/23/2015 18:50	

Lab ID: **M1503396006** Date Received: 09/22/15 15:40 Matrix: Water
Sample ID: **MW-9** Date Collected: 09/22/15 14:17

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	1.7		ug/L	1	1.0	0.36	9/23/2015 19:20	M
Ethylbenzene	0.38	U	ug/L	1	1.0	0.38	9/23/2015 19:20	M
Methyl tert-butyl Ether (MTBE)	0.24	U	ug/L	1	1.0	0.24	9/23/2015 19:20	M
Toluene	0.49	U	ug/L	1	1.0	0.49	9/23/2015 19:20	M
Xylene (Total)	2.4		ug/L	1	2.0	1.1	9/23/2015 19:20	M
1,2-Dichloroethane-d4 (S)	105		%	1	77-125		9/23/2015 19:20	
Toluene-d8 (S)	102		%	1	80-121		9/23/2015 19:20	
Bromofluorobenzene (S)	104		%	1	80-129		9/23/2015 19:20	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: M1503396 FCE 1836

PARAMETER QUALIFIERS

U 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.

LAB QUALIFIERS

M DOH Certification #E82535(AEL-M)(FL NELAC Certification)

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QUALITY CONTROL DATA

Workorder: M1503396 FCE 1836

QC Batch: MSVm/1739 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B Prepared: 09/23/2015 00:00

Associated Lab Samples: M1503396001, M1503396002, M1503396003, M1503396004, M1503396005, M1503396006

METHOD BLANK: 1859501

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Methyl tert-butyl Ether (MTBE)	ug/L	0.24	0.24	U
Benzene	ug/L	0.36	0.36	U
Toluene	ug/L	0.49	0.49	U
Ethylbenzene	ug/L	0.38	0.38	U
Xylene (Total)	ug/L	1.1	1.1	U
1,2-Dichloroethane-d4 (S)	%	99	77-125	
Toluene-d8 (S)	%	100	80-121	
Bromofluorobenzene (S)	%	104	80-129	

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10200 USA Today Way Miramar, FL 33025
Payments: P.O. Box 551580 Jacksonville, FL 32255-1580
Phone: (954)889-2288
Fax: (954)889-2281

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: M1503396 FCE 1836

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
M1503396001	MW-1	SW-846 5030B	MSVm/1739	SW-846 8260B	MSVm/1740
M1503396002	MW-2	SW-846 5030B	MSVm/1739	SW-846 8260B	MSVm/1740
M1503396003	MW-6	SW-846 5030B	MSVm/1739	SW-846 8260B	MSVm/1740
M1503396004	MW-7	SW-846 5030B	MSVm/1739	SW-846 8260B	MSVm/1740
M1503396005	MW-8	SW-846 5030B	MSVm/1739	SW-846 8260B	MSVm/1740
M1503396006	MW-9	SW-846 5030B	MSVm/1739	SW-846 8260B	MSVm/1740

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☑ Miramar: 10200 USA Today Way, Miramar, FL
☐ Tallahassee: 1288 Cedar Center Drive, Tallah
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • [illegible] • Fax 407.937.1597

M1503396

Client Name:	ECOTECH ENV. SVCS., INC.	Project Name: FCE 1836	
Address:	3260 NW 23 AVE, STE 1400E	P.O. Number/Project Number: 0615094	
	POMPANO BEACH, FL 33069		
Phone:	954-973-7792	FDEP Facility No: 9800891	
FAX:	954-973-7795	Project Name and Address:	
Contact:	I. DONALDSON	1011 S. Powerline Rd., Deerfield Beach, FL	
Sampled By:	P.BRACKIN		
Turn Around Time:	☑ STANDARD ☐ RUSH	Special Instructions: cash rates	
Page 1 OF 1		ADaPT ☐ EQuIS	

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	BOTTLE SIZE & TYPE	40ml CG	1L AG	1L AG								LABORATORY I.D. NUMBER
								ANALYSIS REQUIRED	BTEX/MTBE	PAH	TRPH								
									HCL/none	H2SO4/c	H2SO4/c								
MW-1		GRAB	9/22/2015	1352	GW	4			X	X	X								01
MW-2		GRAB	9/22/2015	1232	GW	4			X	X	X								02
MW-6		GRAB	9/22/2015	1500	GW	4			X	X	X								06
MW-7		GRAB	9/22/2015	1257	GW	6 4			X	X	X								04
MW-8		GRAB	9/22/2015	1324	GW	6 4			X	X	X								05
MW-9		Grab	9/22/15	1417	GW	4			X	X	X								010

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge **Preservation Code:** I = Ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☑ Yes ☐ No ☑ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received 6.8 (in degrees celcius)

DCN: AD-051 Form last revised 08/18/2014 Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V M.3A

	Relinquished by:	Date	Time	Received by:	Date	Time
1	P. Brackin	9/22/15	1540	[signature]	9/22/15	15:40
2						
3						
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID:
Contact Person: Phone :
Supplier of Water:
Site-Address:

DRAFT

Moore, John

From: idonaldson@ecotechfla.com
Sent: Wednesday, December 16, 2015 1:51 PM
To: Moore, John
Subject: FW: FCE 1836 gw samples - please only analyze for BTEX/MTBE!

Importance: High

See email below, I had requested for only BTEX/MTBE to be analyzed because the previous groundwater results (prior to 9/22/15) for PAH and TRPH were BDL. Also, this is what was proposed and financially approved by FCE, this was caught when field notes were reviewed before the lab report was processed.

Irene Giovenco Donaldson
Project Manager
Ecotech Environmental Services, Inc.
3260 NW 23rd Avenue, Suite 1400-E
Pompano Beach, FL 33069
O: (954) 973-7792
C: (561) 866-9060
F: (954) 973-7795
E: idonaldson@ecotechfla.com



From: idonaldson ecotechfla.com
Sent: Wednesday September 23 2015 8:46 AM
To: kwilliams aellab.com Tiffany Mackie (tmackie aellab.com
Cc: pbrackin ecotechfla.com
Subject: FCE 1836 gw samples - please only analyze for BTE /MTBE
Importance: High

FCE 1836 gw samples - please only analyze for BTEX/MTBE! Thank you

Irene Giovenco Donaldson
Project Manager
Ecotech Environmental Services, Inc.
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November 10, 2015

Irene Giovenco Donaldson
Ecotech Environmental Services, Inc.
3260 NW 23rd Avenue Ste 1400-E
Pompano Beach, FL 33069

RE: Workorder: M1503914 FCE#1836

Dear Irene Donaldson:

Enclosed are the analytical results for sample(s) received by the laboratory on Tuesday, November 03, 2015. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kathy Williams
KWilliams@AELLab.com

Enclosures

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SAMPLE SUMMARY

Workorder: M1503914 FCE#1836

Lab ID	Sample ID	Matrix	Date Collected	Date Received
M1503914001	MW-10	Water	11/3/2015 08:48	11/3/2015 11:30
M1503914002	MW-11	Water	11/3/2015 09:09	11/3/2015 11:30
M1503914003	MW-12	Water	11/3/2015 09:28	11/3/2015 11:30

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ANALYTICAL RESULTS

Workorder: M1503914 FCE#1836

Lab ID: **M1503914001** Date Received: 11/03/15 11:30 Matrix: Water
Sample ID: **MW-10** Date Collected: 11/03/15 08:48

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	0.36	U	ug/L	1	1.0	0.36	11/10/2015 12:21	M
Ethylbenzene	0.38	U	ug/L	1	1.0	0.38	11/10/2015 12:21	M
Methyl tert-butyl Ether (MTBE)	0.24	U	ug/L	1	1.0	0.24	11/10/2015 12:21	M
Toluene	0.49	U	ug/L	1	1.0	0.49	11/10/2015 12:21	M
Xylene (Total)	1.1	U	ug/L	1	2.0	1.1	11/10/2015 12:21	M
1,2-Dichloroethane-d4 (S)	113		%	1	77-125		11/10/2015 12:21	
Toluene-d8 (S)	99		%	1	80-121		11/10/2015 12:21	
Bromofluorobenzene (S)	97		%	1	80-129		11/10/2015 12:21	

Lab ID: **M1503914002** Date Received: 11/03/15 11:30 Matrix: Water
Sample ID: **MW-11** Date Collected: 11/03/15 09:09

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	0.36	U	ug/L	1	1.0	0.36	11/10/2015 12:51	M
Ethylbenzene	0.38	U	ug/L	1	1.0	0.38	11/10/2015 12:51	M
Methyl tert-butyl Ether (MTBE)	0.24	U	ug/L	1	1.0	0.24	11/10/2015 12:51	M
Toluene	0.49	U	ug/L	1	1.0	0.49	11/10/2015 12:51	M
Xylene (Total)	1.1	U	ug/L	1	2.0	1.1	11/10/2015 12:51	M
1,2-Dichloroethane-d4 (S)	111		%	1	77-125		11/10/2015 12:51	
Toluene-d8 (S)	94		%	1	80-121		11/10/2015 12:51	
Bromofluorobenzene (S)	99		%	1	80-129		11/10/2015 12:51	

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ANALYTICAL RESULTS

Workorder: M1503914 FCE#1836

Lab ID: **M1503914003** Date Received: 11/03/15 11:30 Matrix: Water
Sample ID: **MW-12** Date Collected: 11/03/15 09:28

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Benzene	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/10/2015 13:20	M
Ethylbenzene	**0.38**	**U**	**ug/L**	**1**	1.0	0.38	11/10/2015 13:20	M
Methyl tert-butyl Ether (MTBE)	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/10/2015 13:20	M
Toluene	**0.49**	**U**	**ug/L**	**1**	1.0	0.49	11/10/2015 13:20	M
Xylene (Total)	**1.1**	**U**	**ug/L**	**1**	2.0	1.1	11/10/2015 13:20	M
1,2-Dichloroethane-d4 (S)	**103**		**%**	**1**	77-125		11/10/2015 13:20	
Toluene-d8 (S)	**100**		**%**	**1**	80-121		11/10/2015 13:20	
Bromofluorobenzene (S)	**89**		**%**	**1**	80-129		11/10/2015 13:20	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: M1503914 FCE#1836

PARAMETER QUALIFIERS

U 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.

LAB QUALIFIERS

M DOH Certification #E82535(AEL-M)(FL NELAC Certification)

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QUALITY CONTROL DATA

Workorder: M1503914 FCE#1836

QC Batch:	MSVm/1876	Analysis Method:	SW-846 8260B
QC Batch Method:	SW-846 5030B	Prepared:	11/10/2015 00:00
Associated Lab Samples:	M1503914001, M1503914002, M1503914003		

METHOD BLANK: 1898857

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Methyl tert-butyl Ether (MTBE)	ug/L	0.24	0.24	U
Benzene	ug/L	0.36	0.36	U
Toluene	ug/L	0.49	0.49	U
Ethylbenzene	ug/L	0.38	0.38	U
Xylene (Total)	ug/L	1.1	1.1	U
1,2-Dichloroethane-d4 (S)	%	109	77-125	
Toluene-d8 (S)	%	104	80-121	
Bromofluorobenzene (S)	%	96	80-129	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: M1503914 FCE#1836

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
M1503914001	MW-10	SW-846 5030B	MSVm/1876	SW-846 8260B	MSVm/1877
M1503914002	MW-11	SW-846 5030B	MSVm/1876	SW-846 8260B	MSVm/1877
M1503914003	MW-12	SW-846 5030B	MSVm/1876	SW-846 8260B	MSVm/1877

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☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 -

M1503914

1597

Client Name: ECOTECH ENV. SVCS., INC.	Project Name: FCE 1836
Address: 3260 NW 23 AVE, STE 1400E	P.O. Number/Project Number: 0515110
POMPANO BEACH, FL 33069	
Phone: 954-973-7792	FDEP Facility No: 9800851
FAX: 954-973-7795	Project Name and Address:
Contact: I. DONALDSON	1011 Powerline Rd., Deerfield Beach, FL
Sampled By: P.BRACKIN	
Turn Around Time: ☐ STANDARD ☐ RUSH	Special Instructions: NON-PROGRAM CASH RATES
Page___ 1OF 1	☐ ADaPT ☐ EQuIS

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	HCL/ICE
MW-10		GRAB	11/3/2015	8:48	GW	3		X
MW-11		GRAB	11/3/2015	9:09	GW	3		X
MW-12		GRAB	11/3/2015	9:28	GW	3		X

ANALYSIS REQUIRED

BOTTLE SIZE & TYPE	LABORATORY I.D. NUMBER
3*40ml CG	BTEX/MTBE

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge

Preservation Code: I = Ice H=(HCl) S = (H_2SO_4) N = (HNO_3) T = (Sodium Thiosulfate)

Received on Ice ☑ Yes ☐ No ☐ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received 5.3 (in degrees celcius)

DCN: AD-051 Form last revised: 08/15/2014 Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	P Brackin	11/3/15	1130		11/3/15	1033
2						
3						
4						

FOR DRINKING WATER USE:

(When PWS information not otherwise supplied) PWS ID:_____

Contact Person:_____ Phone :_____

Supplier of Water:_____

Site Address:_____

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ATTACHMENT D

FDEP GROUNDWATER SAMPLING LOGS, & FIELD INSTRUMENT CALIBRATION LOGS

DRAFT

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: FCE 1836	SITE LOCATION: 1011 SOUTH POWERLINE RD., DEERFIELD BEACH, FL	
WELL NO: MW-1	SAMPLE ID: MW-1	DATE: 7/2/15

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH 2 ft to 12 ft	STATIC DEPTH TO WATER (feet): 3.76	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet – 3.76 feet) x 0.16 gallons/foot = 1.32 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 5	PURGING INITIATED AT: 1132	PURGING ENDED AT: 1144	TOTAL VOLUME PURGED (gallons): 3.0

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)
1138	1.5	1.5	0.25	3.83	7.01	32.18	576	0.24	15.3	none	none
1141	0.75	2.25	0.25	3.83	6.98	32.17	580	0.26	17.7	"	"
1144	0.75	3.0	0.25	"	6.96	32.10	581	0.25	15.6	"	"

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: P. BRACKIN / ECOTECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1145	SAMPLING ENDED AT: 1150
PUMP OR TUBING DEPTH IN WELL (feet): 5	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: N/A µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
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)
	3	CG	40 mL	HCl	120	<2	BTEX/MTBE	RFPP	200
	~~1~~	~~AG~~	~~1L~~	~~Ice~~	~~1,000~~	~~NA~~	~~PAH~~	~~APP~~	PB
	1	AG	1L	H2SO4	1,000	<2	TRPH-FLPRO/PAH	APP	500

REMARKS:

ORP =

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After 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)

Revision Date: February 12, 2009

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: FCE 1836	SITE LOCATION: 1011 SOUTH POWERLINE RD., DEERFIELD BEACH, FL	
WELL NO: MW-2	SAMPLE ID: MW-2	DATE: 7/2/15

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH 2 ft to 12 ft	STATIC DEPTH TO WATER (feet): 5.39	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet – 5.39 feet) X 0.16 gallons/foot = 1.06 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7	PURGING INITIATED AT: 937	PURGING ENDED AT: 951	TOTAL VOLUME PURGED (gallons): 3.5

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 (mS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
942	1.25	1.25	0.25	6.44	6.98	28.21	674	0.32	41.4	cloudy	none
945	0.75	2.0	0.25	6.44	6.85	28.16	672	0.24	15.6	none	none
948	0.75	2.75	0.25	"	6.79	29.17	671	0.20	14.5	"	"
941	0.75	3.50	0.25	"	6.79	28.16	670	0.19	16.2	"	"

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: P. BRACKIN / ECOTECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 952	SAMPLING ENDED AT: 951
PUMP OR TUBING DEPTH IN WELL (feet): 7	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: N/A µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
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-2	3	CG	40 mL	HCl	120	<2	BTEX/MTBE	RFPP	<100
~~[illegible]~~	~~1~~	~~AG~~	~~1L~~	~~Ice~~	~~1,000~~	~~NA~~	~~PAH~~	~~APP~~	~~[illegible]~~
MW-2	1	AG	1L	H2SO4	1,000	<2	TRPH-FLPRO/PAH	APP	500

REMARKS:

ORP =

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

Revision Date: February 12, 2009

DRAFT

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: FCE 1836	SITE LOCATION: 1011 SOUTH POWERLINE RD., DEERFIELD BEACH, FL	
WELL NO: MW-3	SAMPLE ID: MW-3	DATE: 7/2/15

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH 2 ft to 12 ft	STATIC DEPTH TO WATER (feet): 3.77	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet − 3.77 feet) X 0.16 gallons/foot = 1.32 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 5	PURGING INITIATED AT: 1002	PURGING ENDED AT: 1014	TOTAL VOLUME PURGED (gallons): 3.0

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1008	1.5	1.5	0.25	3.85	7.03	31.21	649	0.44	17.6	none	none
1011	0.75	2.25	0.25	3.85	6.99	31.15	648	0.37	17.0	"	"
1014	0.75	3.00	0.25	"	6.94	3.08	646	0.30	15.4	"	"

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: P. BRACKIN / ECOTECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1015	SAMPLING ENDED AT: 1020
PUMP OR TUBING DEPTH IN WELL (feet): 5	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: N/A µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
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-3	3	CG	40 mL	HCl	120	<2	BTEX/MTBE	RFPP	< 100
~~—~~	~~1~~	~~AG~~	~~1L~~	Ice	1,000	NA	~~PAH~~	APP	PB
MW-3	1	AG	1L	H2SO4	1,000	<2	TRPH-FLPRO PAH	APP	500

REMARKS:

ORP =

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

Revision Date: February 12, 2009

DRAFT

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: FCE 1836	SITE LOCATION: 1011 SOUTH POWERLINE RD., DEERFIELD BEACH, FL	
WELL NO: MW-4	SAMPLE ID: MW-4	DATE: 7/2/15

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH 2 ft to 12 ft	STATIC DEPTH TO WATER (feet): 3.45	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet – 3.45 feet) X 0.16 gallons/foot = 1.37 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 5	PURGING INITIATED AT: 1032	PURGING ENDED AT: 1044	TOTAL VOLUME PURGED (gallons): 3.0

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 (mS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1038	1.5	1.5	0.25	3.58	6.95	30.70	640	0.26	24	cloudy	none
1041	0.75	2.25	0.20	3.59	6.92	30.71	639	0.23	17.3	none	none
1044	0.75	3.0	0.25	"	6.90	30.72	635	0.19	13.3	"	"
									10.2	"	"

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: P. BRACKIN / ECOTECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1045	SAMPLING ENDED AT: 1050
PUMP OR TUBING DEPTH IN WELL (feet): 5	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: N/A µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
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-4	3	CG	40 mL	HCl	120	<2	BTEX/MTBE	RFPP	200
~~1~~	~~1~~	~~AG~~	~~1L~~	~~Ice~~	~~1,000~~	~~NA~~	~~PAH~~	~~APP~~	PB
MW-4	1	AG	1L	H2SO4	1,000	<2	TRPH-FLPRO/PAH	APP	500

REMARKS:

ORP =

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After 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)

Revision Date: February 12, 2009

DRAFT

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: FCE 1836	SITE LOCATION: 1011 SOUTH POWERLINE RD., DEERFIELD BEACH, FL	
WELL NO: MW-5	SAMPLE ID: MW-5	DATE: 7/2/15

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH 2 ft to 12 ft	STATIC DEPTH TO WATER (feet): 3.78	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet – 3.78 feet) X 0.16 gallons/foot = 1.32 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 5	PURGING INITIATED AT: 1057	PURGING ENDED AT: 1109	TOTAL VOLUME PURGED (gallons): 3.0

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1103	1.5	1.5	0.25	3.95	7.29	30.15	446	0.25	13.7	none	none
1106	0.75	2.25	0.25	3.96	7.23	29.98	446	0.21	7.3	"	"
1109	0.75	3.0	0.25	"	7.19	29.95	445	0.24	16.5	"	"

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: P. BRACKIN / ECOTECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1110	SAMPLING ENDED AT: 1115
PUMP OR TUBING DEPTH IN WELL (feet): 5	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: N/A µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
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-5	3	CG	40 mL	HCl	120	<2	BTEX/MTBE	RFPP	100
~~	~~1~~	~~AG~~	~~1L~~	~~Ice~~	~~1,000~~	~~NA~~	~~PAH~~	~~APP~~	~~AB~~
MW-5	1	AG	1L	H2SO4	1,000	<2	TRPH-FLPRO/PAH	APP	500

REMARKS:

ORP =

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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)

Revision Date: February 12, 2009

DRAFT

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FCE 1836	SITE LOCATION: 1011 s. Powerline Rd., Deerfield Beach, FL	
WELL NO: MW-1	SAMPLE ID:	DATE: 9/22/15

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 3.50	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet – 3.5 feet) X 0.16 gallons/foot = 1.36 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): 4.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 4.5	PURGING INITIATED AT: 1335	PURGING ENDED AT: 1347	TOTAL VOLUME PURGED (gallons): 3.0

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)
1341	1.50	1.50	0.25	3.57	6.86	31.63	623	0.54	19.0	none	none
1344	0.75	2.25	0.25	3.58	6.84	31.60	622	0.51	19.0	"	"
1347	0.75	3.0	0.25	3.58	6.85	31.57	621	0.49	15.1	"	"

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: P. BRACKIN / ECOTECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1347	SAMPLING ENDED AT: 1352
PUMP OR TUBING DEPTH IN WELL (feet): 4.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: N/A 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-1	3	CG	3*40ml	HCL/NONE	120ml	<2	BTEX/MTBE	RFPP	<100
MW-1	1	AG	1L	H2SO4	1L	<2	PAH/TRPH	APP	500

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)

DRAFT

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FCE 1836	SITE LOCATION: 1011 s. Powerline Rd., Deerfield Beach, FL	
WELL NO: MW-2	SAMPLE ID:	DATE: 9/22/15

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 5.11	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet – 5.11 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): 6	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6	PURGING INITIATED AT: 1215	PURGING ENDED AT: 1226	TOTAL VOLUME PURGED (gallons): 2.75

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)
1220	1.25	1.25	0.25	5.16	7.31	29.07	585	0.80	17.2	none	none
1223	0.75	2.0	0.25	5.16	7.26	29.07	588	0.72	17.2	"	"
1226	0.75	2.75	0.25	5.16	7.22	29.11	589	0.83	11.5	"	"

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: P. BRACKIN / ECOTECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1227	SAMPLING ENDED AT: 1232
PUMP OR TUBING DEPTH IN WELL (feet): 6	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: N/A 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-2	3	CG	3*40ml	HCL/NONE	120ml	<2	BTEX/MTBE	RFPP	<100
MW-2	1	AG	1L	H2SO4	1L	<2	PAH/TRPH	APP	500

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)

DRAFT

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FCE 1836	SITE LOCATION: 1011 s. Powerline Rd., Deerfield Beach, FL	
WELL NO: MW-6	SAMPLE ID:	DATE: 9/22/15

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 3.53	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet – 3.53 feet) X 0.16 gallons/foot = 1.36 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): 4.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 4.5	PURGING INITIATED AT: 1443	PURGING ENDED AT: 1455	TOTAL VOLUME PURGED (gallons): 3.0

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)
1449	1.5	1.5	0.25	3.66	6.89	29.55	603	1.31	39.7	none	none
1452	0.75	2.25	0.25	3.66	6.88	29.57	602	1.28	38.3	"	"
1455	0.75	3.0	0.25	3.66	6.88	29.55	602	1.27	38.1	"	"

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: P. BRACKIN / ECOTECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1455	SAMPLING ENDED AT: 1500
PUMP OR TUBING DEPTH IN WELL (feet): 4.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: N/A 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-6	3	CG	3*40ml	HCL/NONE	120ml	<2	BTEX/MTBE	RFPP	<100
MW-6	1	AG	1L	H2SO4	1L	<2	PAH/TRPH	APP	500

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)

DRAFT

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FCE 1836	SITE LOCATION: 1011 s. Powerline Rd., Deerfield Beach, FL	
WELL NO: MW-7	SAMPLE ID:	DATE: 9/22/15

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 3.86	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet – 3.86 feet) X 0.16 gallons/foot = 1.30 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): 5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 5	PURGING INITIATED AT: 1239	PURGING ENDED AT: 1251	TOTAL VOLUME PURGED (gallons): 3.0

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)
1245	1.5	1.5	0.75	3.90	7.30	30.13	465	2.36	12.8	none	none
1248	0.75	2.25	0.25	3.91	7.22	30.15	465	2.38	9.08	"	"
1251	0.75	3.0	0.25	3.91	7.24	30.02	464	2.28	7.21	"	"

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: P. BRACKIN / ECOTECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1252	SAMPLING ENDED AT: 1257

PUMP OR TUBING DEPTH IN WELL (feet): 5	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: N/A 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-7	3	CG	3*40ml	HCL/NONE	120ml	<2	BTEX/MTBE	RFPP	<100
MW-7	1	AG	1L	H2SO4	1L	<2	PAH/TRPH	APP	500

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)

DRAFT

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FCE 1836	SITE LOCATION: 1011 s. Powerline Rd., Deerfield Beach, FL	
WELL NO: MW-8	SAMPLE ID:	DATE: 9/22/15

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 4.31	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet – 4.31 feet) x 0.16 gallons/foot = 1.23 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): 5.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 5.5	PURGING INITIATED AT: 1308	PURGING ENDED AT: 1319	TOTAL VOLUME PURGED (gallons): 2.75

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)
1313	1.25	1.25	0.25	4.56	7.25	29.04	506	0.38	5.75	none	none
1316	0.75	2.0	0.25	4.37	7.21	29.01	505	0.37	5.45	"	"
1319	0.75	2.75	0.25	4.37	7.15	28.99	503	0.37	3.21	"	"

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: P. BRACKIN / ECOTECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1319	SAMPLING ENDED AT: 1324
PUMP OR TUBING DEPTH IN WELL (feet): 5.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: N/A 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-8	3	CG	3*40ml	HCL/NONE	120ml	<2	BTEX/MTBE	RFPP	<100
MW-8	1	AG	1L	H2SO4	1L	<2	PAH/TRPH	APP	500

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)

DRAFT

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FCE 1836	SITE LOCATION: 1011 s. Powerline Rd., Deerfield Beach, FL	
WELL NO: MW-9	SAMPLE ID:	DATE: 9/22/15

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 3.52	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet – 3.52 feet) X 0.16 gallons/foot = 1.36 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): 4.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 4.5	PURGING INITIATED AT: 1400	PURGING ENDED AT: 1412	TOTAL VOLUME PURGED (gallons): 3.0

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 (uS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1406	1.5	1.5	0.25	3.55	6.95	33.01	623	0.35	9.44	none	none
1409	0.75	2.25	0.25	3.56	6.93	32.96	623	0.34	6.70	"	"
1412	0.75	3.0	0.25	3.56	6.93	32.97	624	0.34	5.78	"	"
			~~0.25~~ B								

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: P. BRACKIN / ECOTECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1412	SAMPLING ENDED AT: 1417
PUMP OR TUBING DEPTH IN WELL (feet): 4.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: N/A µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-9	3	CG	3*40ml	HCL/NONE	120ml	<2	BTEX/MTBE	RFPP	<100
MW-9	1	AG	1L	H2SO4	1L	<2	PAH/TRPH	APP	500

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)

DRAFT

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FCE 1836	SITE LOCATION: 1011 S. POWERLINE RD., DEERFIELD BEACH, FL	
WELL NO: MW- 10	SAMPLE ID:	DATE: ~~10/~~ 3 /15

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 4.41	PURGE PUMP TYPE OR BAILER: PP

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

= (12 feet – 4.41 feet) X 0.16 gallons/foot = 1.21 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): 6	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6	PURGING INITIATED AT: 834	PURGING ENDED AT: 845	TOTAL VOLUME PURGED (gallons): 2.75

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)
839	1.25	1.25	0.25	4.51	7.52	31.92	858	1.29	9.26	none	none
842	0.75	2.0	0.25	4.51	7.42	31.95	852	1.35	8.28	"	"
845	0.75	2.75	0.25	4.51	7.41	31.95	845	1.30	7.05	"	"

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: P. BRACKIN / ECOTECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 845	SAMPLING ENDED AT: 848
PUMP OR TUBING DEPTH IN WELL (feet): 6	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: N/A 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-10	3	CG	3*40ml	HCL/NONE	120ml	<2	BTEX/MTBE	RFPP	<100

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)

DRAFT

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FCE 1836	SITE LOCATION: 1011 S. POWERLINE RD., DEERFIELD BEACH, FL	
WELL NO: MW- 11	SAMPLE ID:	DATE: ~~10/~~ 11 3 /15

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 4.34	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet – 4.34 feet) X 0.16 gallons/foot = 1.23 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): 5.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 5.5	PURGING INITIATED AT: 855	PURGING ENDED AT: 906	TOTAL VOLUME PURGED (gallons): 2.75

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)
900	1.25	1.25	0.25	4.35	6.82	29.80	849	0.41	3.56	none	none
903	0.75	2.0	0.25	4.36	6.79	29.82	848	0.39	3.43	"	"
906	0.75	2.75	0.25	4.36	6.75	29.83	847	0.35	3.26	"	"

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: P. BRACKIN / ECOTECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 906	SAMPLING ENDED AT: 909
PUMP OR TUBING DEPTH IN WELL (feet): 5.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: N/A µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-11	3	CG	3*40ml	HCL/NONE	120ml	<2	BTEX/MTBE	RFPP	<100

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)

DRAFT

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FCE 1836	SITE LOCATION: 1011 S. POWERLINE RD., DEERFIELD BEACH, FL	
WELL NO: MW- 12	SAMPLE ID:	DATE: ~~10/~~ 5/15

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 4.41	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet – 4.41 feet) X 0.16 gallons/foot = 1.21 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): 5.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 5.5	PURGING INITIATED AT: 914	PURGING ENDED AT: 925	TOTAL VOLUME PURGED (gallons): 2.75

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)
919	1.25	1.25	0.25	4.55	6.87	28.40	720	1.36	14	Cloudy	none
922	0.75	2.0	0.25	4.54	6.86	28.41	720	1.40	11.0	none	"
925	0.75	2.75	0.25	4.54	6.86	28.41	719	1.46	12.4	none	"

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: P. BRACKIN / ECOTECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 925	SAMPLING ENDED AT: 928

PUMP OR TUBING DEPTH IN WELL (feet): 5.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: N/A 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-12	3	CG	3*40ml	HCL/NONE	120ml	<2	BTEX/MTBE	RFPP	<100

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)

DRAFT

Advanced Environmental Laboratories, Inc.

☐ **Altamonte Springs:** 528 S. Northlake Blvd., Ste. 1016 • Altamonte Springs, FL 32701 • 407.937.1594 • Fax 407.937.1597
☐ **Gainesville:** 4965 SW 41st Blvd. • Gainesville, FL 32608 • 352.377.2349 • Fax 352.395.6639
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☐ **Miramar:** 10200 USA Today Way, Miramar, FL 33025 • 954.889.2288 • Fax 954.889.2281
☐ **Tallahassee:** 1288 Cedar Center Drive, Tallahassee, FL 32301 • 850.219.6274 • Fax 850.219.6275
☐ **Tampa:** 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9616 • Fax 813.630.4327

Client Name:	ECOTECH ENV. SVCS., INC.
Address:	3260 NW 23 AVE, STE 1400E
	POMPANO BEACH, FL 33069
Phone:	954-973-7792
FAX:	954-973-7795
Contact:	I. DONALDSON
Sampled By:	P.BRACKIN
Turn Around Time:	☐ STANDARD ☐ RUSH
Page___	1OF 1

Project Name: FCE 1836
P.O. Number/Project Number: 0515115
FDEP Facility No: 9800891
Project Name and Address: 1011 Powerline Rd., Deerfield Beach, FL
Special Instructions: NON-PROGRAM CASH RATES ☐ ADaPT ☐ EQuIS

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	BOTTLE SIZE & TYPE: 3*40ml CG	ANALYSIS REQUIRED: BTEX/MTBE	HCL/ICE	LABORATORY I.D. NUMBER
MW-10		GRAB	11/3/2015	8:48	GW	3			X		
MW-11		GRAB	11/3/2015	9:09	GW	3			X		
MW-12		GRAB	11/3/2015	9:28	GW	3			X		

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge
Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

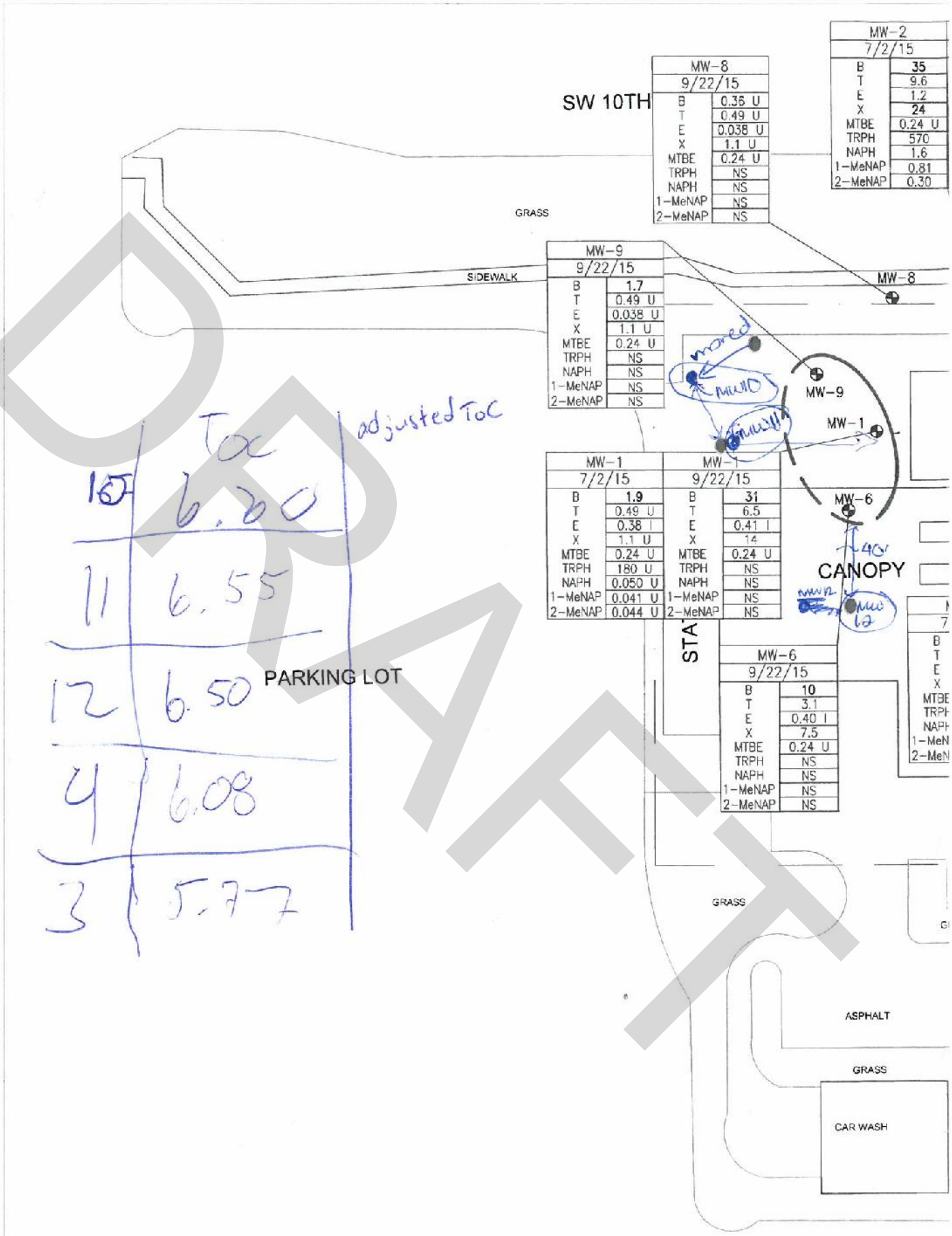
Received on Ice ☐ Yes ☐ No ☐ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received_____(in degrees celcius)

DCN: AD-051 Form last revised 08/18/2014 Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1						
2						
3						
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID:_____
Contact Person:_____ Phone :_____
Supplier of Water:_____
Site-Address:_____

HWC



	ToC	adjusted ToC
10	6.20	
11	6.55	
12	6.50	
4	6.08	
3	5.77	

PARKING LOT

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Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) LaMotte 2020we **Instrument #** ___

PARAMETER: *[check only one]*

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP
☒ TURBIDITY ☐ RESIDUAL Cl ☐ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A AMCO Primary Turbidity Std – LaMotte 10.0 NTU, purchased 11/2012

Standard B AMCO Primary Turbidity Std – LaMotte 0.0 NTU, purchased 11/2012

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C, D)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
15/6/30	1645	A	10.0	6.64		Y	INIT	PB
		B	0.0	0.03		Y	INIT	PB
		A	10.0				CONT	
		A	10.0				CONT	
16/7/1		A	10.0	8.74		Y	INIT	PB
		B	0.0	0.01		Y	~~CONT~~ Invt	PB
		A	10.0				CONT	
		A	10.0				CONT	
15/7/16	1315	A	10.0	6.05		Y	INIT	PB
		B	0.0	0.01		Y	~~CONT~~ Invt	PB
		A	10.0	~~6.05~~ PB			CONT	
		A	10.0				CONT	

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Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) YSI-556 **Instrument #** _____

PARAMETER: *[check only one]*

☐ TEMPERATURE ☒ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP
☐ TURBIDITY ☐ RESIDUAL Cl ☐ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A Conductivity solution, 1,000 µS/cm, US Environmental, purchased 11/2012

Standard B _____

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C, D)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
15/4/4	1430	A	1,000	967		Yes	INIT	CR
15/05/01	0655	A	1,000	1097		Y	CONT	CR
15/06/15	1400	A	1,000	1122		Y	CONT	CR
15/7/2	750	A	1000	989		Y	Init	PB
PB ~~15/7/6~~	~~1340~~	~~A~~						
		A	1,000				INIT	
		A	1,000				CONT	
		A	1,000				CONT	
		A	1,000				INIT	
		A	1,000				CONT	
		A	1,000				CONT	
		A	1,000				INIT	
		A	1,000				CONT	
		A	1,000				CONT	

DRAFT

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) YSI 556 **Instrument #** _____

PARAMETER: *[check only one]*

☐ TEMPERATURE ☒ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP
☐ TURBIDITY ☐ RESIDUAL Cl ☐ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A _____
Standard B _____
Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C, D)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
15/06/15	1410	A	100%	99.0%		Y	Init	CA
30/6/15	1630	A	1000	1016		Y	Init	BB
15/7/2	735	A	1000	1023		Y	Init	BB
15/7/6	1308	A	1000	1026		Y	Init	BB

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Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) YSI-556 **Instrument #** ___

PARAMETER: *[check only one]*

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ SALINITY ☒ pH ☐ ORP
☐ TURBIDITY ☐ RESIDUAL Cl ☐ DO ☐ OTHER ___

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 7.0 S.U pH solution, US Environmental, purchased 11/2012
Standard B *4.0 S.U pH solution, US Environmental, purchased 11/2012*
Standard C 4.0 S.U pH solution, US Environmental, purchased 11/2012

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C, D)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
15/06/08	2200	A	7.0	6.77		Y	INIT	CA
		B	4.0	3.41		Y	INIT	CA
		C	10.0	9.65		Y	~~CONT~~ INIT	CA
		A	7.0				CONT	
		A	7.0				CONT	
15/06/09	1340	A	7.0	6.75		Y	INIT	CA
		B	4.0	3.28		Y	INIT	CA
		C	10.0	9.73		Y	~~CONT~~ INIT	CA
		A	7.0				CONT	
		A	7.0				CONT	
15/06/15	1358	A	7.0	7.35		Y	INIT	CA
		B	4.0	3.75		Y	INIT	CA
		C	10.0	9.10		Y	~~CONT~~ INIT	CA
		A	7.0				CONT	
		A	7.0				CONT	
30/6/15	1640	A	7.0	7.19		Y	INIT	PB
		B	4.0	3.63		Y	INIT	PB
		C	10.0	9.23		Y	INIT	PB
15/7/2	740	A	7	7.25		Y	init	PB
		B	4	3.21		Y	1 init	
		C	10	9.60		Y		

DEP-SOP-001/01
FT 1000 General Field Testing and Measurement

Form FD 9000-8: FIELD MEASUREMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) YSI-556 INSTRUMENT # _____

PARAMETER: *(check only one)*

TEMPERATURE	X	CONDUCTIVITY		SALINITY	pH	ORP
TURBIDITY		RESIDUAL Cl	X	DO	OTHER	

STANDARDS: (Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased)

Standard A 1000 us/cm
Standard B 100%
Standard C

DATE (mm/dd/yy)	TIME (hr:min)	STD (A,B,C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
10/5/15	1515	A	1000	1003		Y	cont	PB
		B	100%	100		Y	init	PB
10/11/15	730	A	1000	1019		Y	cont	PB
		B	100%	100		Y	init	PB
10/13/15	1745	A	1000	1038		Y	cont	PB
		B	100%	100		Y	init	PB
10/19/15	1640	A	1000	1015		Y	cont	PB
		B	100%	100		Y	init	PB
11/2/15	1710	A	1000	1015		Y	init	PB
		B	100	100		Y	cont	PB
11/3/15	1251	A	1000	1004		Y	init	CA
		B	100	100		Y	cont	CA
11/10/15	800	A	1000	1003		Y	cont	PB
		B	100%	100		Y	init	PB
11/10/15	1540	A	1000	1003		Y	cont	CA
		B	100%			Y	init	CA

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DEP-SOP-001/01
FT 1000 General Field Testing and Measurement

Form FD 9000-8: FIELD MEASUREMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) YSI-556 INSTRUMENT # _____

PARAMETER: *(check only one)*

TEMPERATURE CONDUCTIVITY SALINITY X pH ORP
TURBIDITY RESIDUAL Cl DO OTHER _____

STANDARDS: (Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased)

Standard A 4
Standard B 7
Standard C 10

DATE (mm/dd/yy)	TIME (hr:min)	STD (A,B,C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
10/5/15	1540	A	4	2.02		Y	init	DB
		B	7	7.94		Y	init	DB
		C	10	9.87		Y	init	DB
10/12/15	735	A	4	3.17		Y	init	DB
		B	7	7.45		Y	init	DB
		C	10	9.31		Y	init	DB
10/13/15	1715	A	4	4.01		Y	init	DB
		B	7	7.02		Y	init	DB
		C	10	9.91		Y	init	DB
10/16/15	1630	A	4	3.94		Y	init	DB
		B	7	7.03		Y	init	DB
		C	10	10.17		Y	init	DB
11/2/15	1330	A	4	3.80		Y	init	DB
		B	7	7.16		Y	init	DB
		C	10	9.88		Y	init	DB
11/3/15	1300	A	4	4.45		Y	init	CA
		B	7	6.58		Y	init	CA
		C	10	9.89		Y	init	CA
11/10/15	745	A	4	4.21		Y	init	DB
		B	7	6.93		Y	init	DB
		C	10	9.71		Y	init	DB
11/10/15	1535	A	4	3.92		Y	init	CA
		B	7	7.41		Y	init	CA
		C	10	9.91		Y	init	CA

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DEP-SOP-001/01
FT 1000 General Field Testing and Measurement

Form FD 9000-8: FIELD MEASUREMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) ~~YSI 556~~ La Motte 2020 INSTRUMENT # _____

PARAMETER: *(check only one)*

	TEMPERATURE	CONDUCTIVITY	SALINITY	X	pH	ORP
X	TURBIDITY	RESIDUAL Cl	DO	OTHER		

STANDARDS: (Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased)

Standard A 0 NTU
Standard B 10 NTU
Standard C

DATE (mm/dd/yy)	TIME (hr:min)	STD (A,B,C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
10/5/15	1405	A	0	0.01		Y	init	PB
		B	10	6.63		Y	init	PB
10/12/15	715	A	0	0.01		Y	init	PB
		B	10	6.46		Y	init	PB
10/13/15	1735	A	0	0.01		Y	init	PB
		B	10	7.31		Y	init	PB
10/19/15	1615	A	0	0.01		Y	init	PB
		B	10	7.17		Y	init	PB
10/22/15	1745	A	0	0.01		Y	init	PB
		B	10	6.97		Y	init	PB
11/03/15	125	A	0	0.01		Y	init	PB
		A	10	7.14		Y	init	PB
11/10/15	505	A	10	7.32		Y	init	PB
		B	0	0.01		Y	init	PB
11/10/15	1530	A	10	7.17		Y	init	CA
		B	0	0.02		Y	init	CA

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ATTACHMENT E

SOUTH FLORIDA WATER MANAGEMENT DISTRICT WELL SURVEY

DRAFT

SOUTH FLORIDA WATER MANAGEMENT DISTRICT



AREA OF INTEREST REPORT No.: 20150702-1

Name: SFWMD wells within half mile of 1011 S Powerline Road



AREA OF INTEREST STANDARD REPORT No.: 20150702-1

Name: SFWMD wells within half mile of 1011 S Powerline Road

INTRODUCTION

The following Area of Interest Report was prepared by the Information Technology, Geospatial Services of the South Florida Water Management District. The project site consists of approximately 564.25 acres of land located in Section 09, Township 48S, Range, 42E, City of Deerfield Beach, Broward County, Florida.

The purpose of this report is to document the occurrence of the following features:

ABSTRACT

Permitted Facilities (Wells) E(District) Y(2014) S(SFWMD) SECTION

This data set is known as Water Use Permitting Facilities and consist of wells, pumps and culverts. These facilities are within the 16 counties located in the jurisdictional area of 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. A Water Use Permit (WUP) allows withdrawal of a specified amount of water, either from the ground or from a lake or river. The water can be used for a public water supply; to irrigate crops, nursery plants or golf courses; or for industrial processes. There are two types of Water Use Permits: general and individual. General permits are issued by District staff. Individual permits are issued by District's Governing Board. Water use is divided into five use types depending on the land use. Many water use permits are for combined use.

The query used to extract this subset is as follows -

select A.permit_no, A.app_no, A.actual_permit_file, A.project_name, L.lu_code, A.acres_served, C.id, C.facinv_type, C.name, C.pumptype_code, C.pump_diameter, C.cul_diameter, C.well_diameter, C.pump_capacity, C.pump_intake_depth, C.pump_intake_elevation, C.invert_elevation, C.pump_coordx, C.pump_coordy, C.well_depth, C.cased_depth, T.usests_code, C.facwlsts_code, W.factypwu_code, Y.name, Z.display_name from admin A, wu_app_facility B, wu_fac_inv C, wu_fac_sts_trk T, wu_fac_sources S, app_landuses L, wu_fac_wu_type W, tl_sources Y, app_reviewers X, tl_reviewers Z where A.app_no = L.admin_app_no and A.app_no = B.admin_app_no and B.facinv_id = C.id and L.use_priority = 1 and C.id = T.facinv_id(+) and C.id = S.facinv_id(+) and W.facinv_id(+) = C.id and S.source_id = Y.id and ((A.ACTIVE_MOD = 'Y') or (NVL(A.final_action_date,sysdate-16) >= (sysdate-15))) and A.permit_no like %county_num% and A.app_no = X.admin_app_no and X.rev_sys_id = Z.sys_id and T.end_date is null and X.rev_type = 'WU'

DISCLAIMER

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This data is a conceptual tool utilized for project development and implementation only. This data is not self executing or binding, and does not otherwise affect the interests of any person including any vested rights or existing uses of real property. Any information, including but not limited to maps and data, received from the SFWMD is provided 'as is' without any warranty and the SFWMD expressly disclaims all express and implied warranties of merchantability and fitness for a particular purpose. The District does not make any representations regarding the use, or the results of the use, of the information provided to you by the District.

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APPENDIX A: TABLES

Detailed Report of Features in Permitted Facilities (Wells) E(District) Y(2014) S(SFWMD)

APP_NO	PERMIT_NO	PROJECT_NAME	ID	LU_CODE	ACTUAL_PERMIT_FILE	ACRES_SERVED	FAC_NAME	PUMPTYPE_CODE	WELL_DIAMETER	PUMP_CAPACITY	PUMP_INTAKE_DEPTH	PUMP_COORDX	PUMP_COORDY	WELL_DEPTH	CASED_DEPTH	USESTS_CODE	FACWLSTS_CODE	FACTYPWU_CODE	SOURCE_NAME
1009 29-24	06-00082-W	DEERFIELD BEACH PUBLIC WATER SUPPLY	115971	PWS	IND	7200	D4 (G2722)	N/A	2	0	14.65	934088	718929	180	80	MON	E	MON	Biscayne Aquifer
0303 27-7	06-03776-W	HANSON ROOF TILE	131211	IND	GP	9	RW-1	CEN	5	13	15	934881	715910	20	5	PRM	E	IND	Surficial Aquifer System
0311 25-3	06-03981-W	MEC WAREHOUSE	142931	LAN	GP	0.8	1	CEN	3	159	50	934657	714366	130	100	PRM	P	IRR	Surficial Aquifer System
0612	06-013	CRYSTAL	1964	LAN	GP	10.26	Brow 8	CEN	2	50	50	933515	717933	60	50	PRM	E	IRR	Biscayne

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Detailed Report of Features in Permitted Facilities (Wells) E(District) Y(2014) S(SFWMD)

APP_NO	PERMIT_NO	PROJECT_NAME	ID	LU_CODE	ACTUAL_PERMIT_FILE	ACRES_SERVED	FAC_NAME	PUMP TYPE_CODE	WELL_DIAMETER	PUMP_CAPACITY	PUMP_INTAKE_DEPTH	PUMP_CORDX	PUMP_CORDY	WELL_DEPTH	CASED_DEPTH	USES TS_CODE	FACWLSTS_CODE	FACTY PWU_CODE	SOURCE_NAME
08-38	09-W	SUB MODIFICATION	17																Aquifer
14 03 10 - 12	06-052 09-W	DEERFIELD BEACH READY MIX PLANT	21 64 78	IND	GP	1	Well 1	TUR	8	200	200	934085	714762	40	40	PRM	E	IND	Biscayne Aquifer
97 04 22 - 14	06-024 18-W	QUIET WATERS PARK	25 49 2	REC	GP	0	1	TUR	12	520	0	932164	718098	140	140	PRM	E	#N/A	Biscayne Aquifer
13 04 17 -2	06-066 73-W	INDEPENDENCE BAY	26 53 83	LAN	GP	1.5	Well 1	SUB	4	60	60	933557	716461	120	100	PRM	P	IRR	Biscayne Aquifer

Total number of records: 7

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WATER USE FACILITIES INFORMATION

For Water Use facility allocation tables (in Microsoft Access format), download the database from the SFWMD FTP site at: ftp://ftp.sfwmd.gov/pub/err_gis/ftp/waterUseExtracts/accdb/.

Data include records such as: Total Annual Allocation, Total Maximum Month Allocation, Total Maximum Day Allocation, Total Average Day, Total Maximum Month Allocation, Total Average Month

APP_PURPOSE	PURPOSE_DESC	PERMIT_TYPE	APP TYPES	Name	Allocation limits	monthly limit /30
CONAG	CONSENT AGREEMENT	WU	GP MIN	Minor General Permit	< 3 MGM	< .1 MGD
DI	DIVERSION & IMPOUNDMENT	WU	GP MAJ	Major General Permit	> 3 MGM <= 15 MGM	> .1 MGD - .5 MGD
DI2	DIV & IMP SECONDARY USER	WU	IND	Individual	> 15 MGM	> .5 MGD
EXTBA	BASIN EXTENSION	WU				
GP	GENERAL PERMIT	WU				
GP MAJ	GENERAL PERMIT - MAJOR	WU				
GP MIN	GENERAL PERMIT - MINOR	WU				
GPREN	GENERAL PERMIT RENEWAL	WU				
INDUS	INDUSTRIAL	WU				
IRR	IRRIGATION	WU				
IRR<20	IRRIGATION < 20 YRS	WU				
IRRAG	AGRICULTURAL IRRIGATION	WU				
IRRAGR	AGR IRRIGATION < 20 YRS	WU				
IRRAL	LAND/NURS/GOLF IRRIGATION	WU				
IRRGF	GOLF IRRIGATION RENEW	WU				
IRRLS	LAND/NURS IRRIGATION REN	WU				
LTRTR1	GP MAJOR LETR MOD W/TRANS	WU				
LTRTRS	LTR MOD W/TRANSFER	WU				
MININ	MINING/DEWATERING	WU				
NPMR	NO PERMIT MOD REQUIRED	WU				
NPR	NO PERMIT REQUIRED	WU				
PREAPP	PRE APPLICATION REVIEW	WU				
PWS	PUBLIC WATER SUPPLY	WU				
STDEW	SHORT-TERM DEWATERING	WU				
TRANS	PERMIT TRANSFER	WU				
TRANS2	PERMIT TRANSFER GP MAJOR	WU				
VAR	VARIANCE	WU				
WULTR	LETTER MOD	WU				
WULTR1	LETTER MOD - GP MAJOR	WU				

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lu= landuse code
anl_alloc= annual allocation in million gallons per year
act_mod = active permit
type 'ind' = individual water use permit (larger use)
type "gp" = general permit is smaller use (volume of water withdrawn)- allocations vary by annual or daily allocation- either mgy or mgd.
as of August 2002 the water use permit types (size) changed from Individual (ind) and general permits (gp) to:
Individual permits use > 15 MGM (Ind)
Major General Permits > 3 mgm <= 15 mgm (major gps)
General Permit , 3 mgm (aka minor gp)

county #	name
6	Broward
8	Charlotte
11	Collier
13	Dade
22	Glades
26	Hendry
28	Highlands
36	Lee
43	Martin
44	Monroe
47	Okeechobee
48	Orange
49	Osceola
50	Palm Beach
53	Polk
56	St Lucie

LANDUSE_CODE	LANDUSE_DESC	PERMIT_TYPE
PWS	PUBLIC WATER SUPPLY	WU
REC	RECREATIONAL	WU
AGR	AGRICULTURAL	WU
DEW	DEWATERING	WU
IND	INDUSTRIAL	WU
LAN	LANDSCAPE	WU
LIV	LIVESTOCK	WU
MIN	MINING	WU
OTH	OTHER	WU
GOL	GOLF COURSE	WU
AQU	AQUACULTURE	WU
NUR	NURSERY	WU
DIV	DIVERSION AND IMPOUNDMENT	WU
WEL	GENERIC (OLD GP'S)	WU
IRR	IRRIGATION	WU
ASR	AQUIFER STORAGE AND RECOVERY	WU
DI2	DIV & IMP SECONDARY USER	WU

APPLICATION TYPES	
APPKIND	**DESCP**
REN	MODIFICATION/RENEWAL
MOD	LETTER MODIFICATION
MOD	MODIFICATION
NEW	PROPOSED
NEW	EXISTING/UNPERMITTED
MOD	MODIFICATION/RENEWAL
NEW	EXPIRED/PREVIOUSLY PERMITTED
REN	RENEWAL
MOD	MODIFICATION/TRANSFER
NEW	LETTER MODIFICATION
NEW	EXISTING/PREVIOUSLY PERMITTED

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District GIS data is projected in Stateplane feet, Florida East Zone, NAD83.

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The user recognizes and acknowledges that the information contained in the Water Use Regulation database was developed by the Water Use Regulation Division for a specific purpose or is used by the Water Use Regulation Division in a specific manner, and this information may be inaccurate or unreliable if used for other purposes. The District is not responsible for your use or reliance upon this information.

The data have been collected and entered for a wide variety of projects and purposes over a long period of time and the resulting database entries vary in quality and detail. The data represent a combination of measured and reported information. Data users are cautioned to carefully consider the provisional nature of the information before using it for decisions that concern personal or public safety or the conduct of business that involves substantial monetary or operational consequences.

Information about the site locations have been entered into the various computer databases over the decades using the latest maps and location information available at the time. Some locations are updated as necessary, but some older sites may not have had the site information checked or updated since the last update. Information such as latitude and longitude, county, and other data may not be accurate by today's standards or information.

	FACILITY STATUS		
CODE	USE_DESC	PROD_Y_N	COMMENTS
PRM	Primary	Y	
SEC	Secondary	Y	
STD	Standby	Y	
OTH	Other	N	
TBPA	To be Plugged and Abandoned	N	
TST	Test	N	
MON	Monitor	N	
#N/A	N/A	N	For migration data
PROD	Production	Y	
ABN	Abandoned	N	
RCH	Recharge	Y	
ASR	Aquifer Storage and Recovery	Y	
XGSS	Inactivated via RegGSS	N	
INJ	Injection	N	
PNC	Proposed But Never Constructed	N	
	WELL STATUS		
CODE	FACWLSTS_DESC	ACTIVE_FLAG	
E	Existing	Y	
P	Proposed	Y	
A	Abandoned	Y	

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FACILITY TYPES	WATER USE FACILITIES = WELLS, PUMPS (=SURFACE WATER PUMPS) CULVERTS	
CODE	FACTYPWU_DESC	ACTIVE_FLAG
AC	Air Conditioning / Withdrawal	Y
ARR	Aquifer Remediation and Recovery	Y
DAI	Dairy	Y
DOM	Single Family	Y
DUP	Duplex	Y
ELS	Elevator Shaft	Y
EMR	Emergency Issue	Y
FIR	Fire	Y
IND	Industrial	Y
IRL	Irrigation Water Replacement	Y
IRR	Irrigation	Y
MND	Mining / Dewatering	Y
MON	Monitor	Y
OLT	Oil / Test	Y
OTR	Other	Y
PWS	Public Water Supply	Y
TSB	Test Boring	Y
TST	Test	Y
#N/A	Unspecified	Y
LIV	Livestock	Y
STG	Staff Gauge	Y
ACR	Air Conditioning / Injection	Y
FRZ	Freeze Protection	Y
ASR	Aquifer Storage and Recovery	Y
RCG	Recharge (unspecified)	Y
DIV	Diversion and Impoundment	Y
AQC	Aquaculture	Y
PH	Swimming Pool Heating / Withdrawal	Y
PHR	Swimming Pool Heating / Injection	Y
BTL	Bottled Water	Y
MON-SW-SG	Monitor / Surface Water Staff Gage	N
SWMS	Surface Water Monitoring Station	Y
RECLAIMED	Reclaimed	Y

LANDUSE_CODE	LANDUSE_DESC	PERMIT_TYPE
PWS	PUBLIC WATER SUPPLY	WU
REC	RECREATIONAL	WU
AGR	AGRICULTURAL	WU
DEW	DEWATERING	WU
IND	INDUSTRIAL	WU
LAN	LANDSCAPE	WU
LIV	LIVESTOCK	WU
MIN	MINING	WU
OTH	OTHER	WU
GOL	GOLF COURSE	WU
AQU	AQUACULTURE	WU
NUR	NURSERY	WU
DIV	DIVERSION AND IMPOUNDMENT	WU
WEL	GENERIC (OLD GP'S)	WU
IRR	IRRIGATION	WU
ASR	AQUIFER STORAGE AND RECOVERY	WU
DI2	DIV & IMP SECONDARY USER	WU

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PARTY OF CONCERN	
POC_TYPE	POC_TYPE_DESC
APPL	APPLICANT
OWNR	OWNER
ENGR	ENGR CONSULTANT
AGNT	AGENT
ENVI	ENV CONSULTANT
IRCT	CHECK ISSUE
OPER	OPER ENTITY
ADJO	ADJ OWNER
LESE	LESSEE
DEVL	DEVELOPER
RDLC	RESPONSE/DENY LETTER COPY RECIPIENT
RDLB	RESPONSE/DENY LETTER BLIND COPY RCPT.
CONP	CONTRACT PURCHASER
PROW	PREVIOUS OWNER
ATNY	ATTORNEY
PROJ	PROJECT SITE
PRAP	PREVIOUS APPLICANT
AGIE	AGI ENGINEER
AGIC	AGI REPORTING CONTACT
SPON	SPONSOR
ARCH	ARCHITECT
NPO	NEW PROPERTY OWNER
FIRM	FIRM/ENGINEER OF AN EAA APPLICATION

PERMIT_STATUS	PERMIT_STATUS_DESC
EXPA	THIS APP ONLY EXPIRED/CANCELLED
ACT	ACTIVE
EXPP	ENTIRE PERMIT EXPIRED/CANCELLED

APP_STATUS	APP_STATUS_DESC
?	UNKNOWN
COMPLETE	COMPLETE
DEFERRED	DEFERRED
DENIED	DENIED
ENFORCEMENT	ENFORCEMENT
HEARING	HEARING
INITIAL REVIEW	INITIAL REVIEW
LEGAL	LEGAL
NO RESPONSE	NO RESPONSE
PENDING BOT	PENDING BOARD OF TRUSTEES
RESPONSE DENY	RESPONSE DENY
RETURNED	RETURNED
TECH DENY	TECHNICAL DENY
UNDER REVIEW	UNDER REVIEW
VOID	VOID
WAIVER	WAIVER
WITHDRAWN	WITHDRAWN

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NAME	SOURCE TYPE	ID	NAME	SOURCE TYPE	ID	NAME	SOURCE TYPE	ID
Floridan Aquifer System	GW	2	LWDD Canal (L-7)	SW	1003021	FPFWCD CANAL (NO. 18)	SW	1008096
Lower Hawthorn Aquifer	GW	3	LWDD Canal (L-8)	SW	1003020	FPFWCD CANAL (NO. 20)	SW	1008067
Lower Tertiary Aquifer	GW	4	LWDD Canal (L-9)	SW	1003019	FPFWCD CANAL (NO. 5)	SW	1008060
Mid-Hawthorn Aquifer	GW	5	Lyons Road Canal	SW	1003155	GATOR SLOUGH	SW	1008000
Sandstone Aquifer	GW	6	Manson Canal	SW	1003238	JACKS BRANCH	SW	1008012
Surficial Aquifer System	GW	7	Middle Marsh Canal	SW	1003237	SFWMD Canal (L-11)	SW	1008011
Suwannee Aquifer	GW	8	Orchard Creek	SW	1003359	LAKE	SW	1008010
Water Table Aquifer	GW	9	Myrtle Slough Canal	SW	1003356	LAKE OKEECHOBEE	SW	1008012
Old SW name	GW	100	Nicholas Canal	SW	1003701	LAKE BUTLER	SW	1008014
Intermediate Aquifer System	GW	1001536	NPBCWCD Canal	SW	1003351	LAKE HENDRICKS	SW	1008015
Brackish Zone	Well	1004642	NSLRWCD Canal (Unspecified)	SW	1003352	LAKE HUCKLEBERRY	SW	1008016
Biscayne Aquifer	GW	1001580	NSLRWCD Canal (C-107)	SW	1003363	M-1 CANAL	SW	1008017
Upper Floridan Aquifer	GW	1001586	NSLRWCD Canal (C-24)	SW	1003364	LAKE MARIAN	SW	1008018
Lower Floridan Aquifer	GW	1001587	NSLRWCD Canal (C-51)	SW	1003365	LAKE OSBORNE	SW	1008019
Aquifer Unspecified	GW	1003857	NSLRWCD Canal (C-44)	SW	1003366	LAKE HERON	SW	1008020
Baron Collier WCD C-1 Canal No. 2	SW	10	NSLRWCD Canal (C-47)	SW	1003367	LAKE TOHOPEKALIGA	SW	1008021
Belopanis Creek	SW	12	NSLRWCD Canal (C-52)	SW	1003368	LAKE WHIPPORWILL	SW	1008022
Big Sand Lake	SW	13	NSLRWCD Canal (C-53)	SW	1003369	CANAL	SW	1008023
Blumberg Canal	SW	14	NSLRWCD Canal (C-54)	SW	1003370	LIRED POND	SW	1008024
Cape Coral Freshwater Canal System	SW	15	NSLRWCD Canal (C-55)	SW	1003371	OKAHATCHEE GROVES WCD	SW	1008025
Carnell Road Canal	SW	16	NSLRWCD Canal (C-56)	SW	1003372	MANCU LAKES	SW	1008026
Central Broward Drainage District Canal	SW	17	NSLRWCD Canal (C-57)	SW	1003373	SFWMD Miami Canal	SW	1008027
Clear Lake	SW	18	NSLRWCD Canal (C-58)	SW	1003374	LT S L D CANAL (C-21)	SW	1008028
Connetchee Canal	SW	19	NSLRWCD Canal (C-59)	SW	1003378	M PRKD North Fork River Canal	SW	1008029
Cross Canal	SW	20	NSLRWCD Canal (C-61)	SW	1003377	NORTH SPRINGS IMPROVEMENT DISTRICT D4-S	SW	1008030
Dog Canal	SW	22	NSLRWCD Canal (C-62)	SW	1003378	NSID CANAL	SW	1008031
East Lake Tohopekaliga	SW	23	NSLRWCD Canal (C-63)	SW	1003379	NSLRWCD CANAL (C-102) WELLBORNE SYSTEM	SW	1008032
Emerald Oaks Lake	SW	24	NSLRWCD Canal (C-64)	SW	1003380	NSLRWCD CANAL (C-47)	SW	1008033
Faka Union Canal	SW	25	NSLRWCD Canal (C-65)	SW	1003381	NSLRWCD CANAL (C-72)	SW	1008034
Fish Lake	SW	26	NSLRWCD Canal (C-66)	SW	1003382	NSLRWCD CANAL (C-75)	SW	1008035
Fox Bay	SW	27	NSLRWCD Canal (C-68)	SW	1003383	NSLRWCD CANAL (C-92)	SW	1008036
FPFWCD Canal	SW	28	NSLRWCD Canal (C-70)	SW	1003384	NSLRWCD CANAL (C-99)	SW	1008037
FPFWCD Canal (No. 1)	SW	29	NSLRWCD Canal (C-71)	SW	1003385	Off site Canal(s)	SW	1008038
FPFWCD Canal (No. 11)	SW	30	NSLRWCD Canal (C-73)	SW	1003386	On-SITE LAKE/ MAN MADE RESERVOIR	SW	1008039
FPFWCD Canal (No. 16)	SW	32	NSLRWCD Canal (C-75)	SW	1003387	ORANGE RIVER CANAL	SW	1008040
FPFWCD Canal (No. 3)	SW	33	NSLRWCD Canal (C-78)	SW	1003388	POMPANO CANAL	SW	1008041
FPFWCD Canal (No. 7)	SW	34	NSLRWCD Canal (C-82)	SW	1003389	Lauderdale-By-The-Sea RIM CANAL	SW	1008042
FPFWCD Canal (No. 9)	SW	35	NSLRWCD Canal (C-83)	SW	1003391	SFWMD Canal(L-6) (100)	SW	1008043
Tasmany Canal	SW	36	NSLRWCD Canal (C-84)	SW	1003392	SFWMD Canal (C-12)	SW	1008044
Wadsworth Canal	SW	37	NSLRWCD Canal (C-87)	SW	1003393	SFWMD Canal (C-13)	SW	1008045
Golden Gate Canal	SW	38	NSLRWCD Canal (C-88)	SW	1003394	SFWMD Canal (C-25)	SW	1008046
Hooks Cove	SW	40	NSLRWCD Canal (C-90)	SW	1003395	SFWMD Canal (C-28A)	SW	1008047
Henderson Creek	SW	41	NSLRWCD Canal (C-91)	SW	1003397	SFWMD Canal (C-4)	SW	1008048
Hinson Canal	SW	42	NSLRWCD Canal (Headed)	SW	1003398	SFWMD Canal (C-51)	SW	1008049
Hendry Hilliard Canal	SW	43	Off-site Lake(s)	SW	1003399	SFWMD Canal (C-7)	SW	1008050
Horner Canal	SW	44	Okaloacoochee Slough	SW	1003400	SFWMD Canal (C-8)	SW	1008051
Hillsboro Canal	SW	45	On-site Borrow Pit(s)	SW	1003401	SFWMD Canal (L-1)	SW	1008052
Hackleberry Lake	SW	46	On-site Canal(s)	SW	1003402	SFWMD Canal (L-3)	SW	1008053
Indian Trace Drainage District Canal	SW	47	Osceola Lake(s)	SW	1003403	SFWMD Canal (L-40)	SW	1008054
ITWCD M-1 Canal	SW	48	Osceola Lake(s)/Pond(s)	SW	1003405	SFWMD Canal (L-42)	SW	1008055
Jack Brad Canal	SW	49	OSWCD Canal	SW	1003406	SFWMD Canal (L-62)	SW	1008056
Lake Banana	SW	50	Palm Creek	SW	1003407	SFWMD Canal (L-7)	SW	1008057
Lake Pearce	SW	52	Peacock Cove	SW	1003408	TAYLOR CREEK	SW	1008058
Lake Big Island	SW	53	Pearlmans Creek	SW	1003409	TOWNSEND CANAL	SW	1008059
Lake Blanche	SW	54	Pit	SW	1003411	SFWMD Canal (L-28(I) -to West Feeder	SW	1008060
Lake Roy	SW	55	Pumpkin Hammock Canal	SW	1003412	S 5 LATERAL CANAL	SW	1008061
Old SW name	SW	101	Redersos Canal	SW	1003413	42 ROOT CANAL	SW	1008062
Unspecified	SW	999999	Sanibel River	SW	1003414	79 AVEN E CANAL	SW	1008063
SFWMD Canal (L-31)	SW	1003011	Seasonal Road Canal	SW	1003415	BISCAYNE AQUIFER	SW	1008064
SFWMD Canal (L-8) Tieback	SW	1003013	SFWMD Canal (C-1)	SW	1003416	LWDD Canal (L-1)	SW	1008065
Water Table aquifer	SW	1003014	SFWMD Canal (C-103)	SW	1003417	LWDD Canal (L-2)	SW	1008066
Okee River	SW	1003015	SFWMD Canal (C-111)	SW	1003418	LWDD Canal (L-4)	SW	1008070
SFWMD Canal (L-59)	SW	1003016	SFWMD Canal (C-113)	SW	1003419	LWDD Canal (L-5)	SW	1008071
SFWMD Canal (L-60)	SW	1003017	SFWMD Canal (C-14)	SW	1003420	LWDD Canal (L-6)	SW	1008072
SFWMD Canal (L-63)	SW	1003018	SFWMD Canal (C-16)	SW	1003421	LWDD Canal (L-7W)	SW	1008073
SFWMD Canal (L0-2)	SW	1003019	SFWMD Canal (C-18)	SW	1003422	LWDD Canal (L-11)	SW	1008074
SFWMD Canal (C-41)	SW	1003020	SFWMD Canal (C-19)	SW	1003423	LWDD Canal (L-11W)	SW	1008075
SFWMD Canal (C-41A)	SW	1003021	SFWMD Canal (C-2)	SW	1003424	LWDD Canal (L-13W)	SW	1008076
Lake Istokpoga/Indian Prairie Canal System	SW	1003175	SFWMD Canal (C-20)	SW	1003425	LWDD Canal (L-19W)	SW	1008077
SFWMD Canal (L-60)	SW	1003177	SFWMD Canal (C-22)	SW	1003426	LWDD Canal (L-23)	SW	1008078
Cutler Creek	SW	1003200	SFWMD Canal (C-24)	SW	1003427	LWDD Canal (L-23W)	SW	1008079
SDB Airport Road Canal	SW	1003277	SFWMD Canal (C-26)	SW	1003428	LWDD Canal (L-27W)	SW	1008080
D-2 Canal	SW	1003295	SFWMD Canal (C-3)	SW	1003429	LWDD Canal (L-31W)	SW	1008081
FPFWCD Canal (No. 14)	SW	1003296	SFWMD Canal (C-31)	SW	1003430	LWDD Canal (L-40W)	SW	1008082
Lake Barton	SW	1003297	SFWMD Canal (C-40)	SW	1003431	LWDD Canal (L-35 1/2 W)	SW	1008083
Lake Ghesa	SW	1003298	SFWMD Canal (C-42)	SW	1003432	LWDD Canal (L-39W)	SW	1008084
Lake Crescent	SW	1003299	SFWMD Canal (C-43)	SW	1003433	LWDD Canal (L-43E)	SW	1008085
Lake Hancock	SW	1003300	SFWMD Canal (C-44)	SW	1003434	LWDD Canal (L-43W)	SW	1008086
Lake Red	SW	1003301	SFWMD Canal (C-51)	SW	1003435	LWDD Canal (L-45)	SW	1008087
Lake Little Sand	SW	1003302	SFWMD Canal (C-54)	SW	1003436	LWDD Canal (L-47W)	SW	1008088
Lake Mac	SW	1003303	SFWMD Canal (C-6)	SW	1003437	LWDD Canal (E-2 1/2)	SW	1008089
Lake Shipkins	SW	1003304	SFWMD Canal (C-7)	SW	1003438	LWDD Canal (E-3 1/2-1)	SW	1008090
Lake Okeechobee	SW	1003305	SFWMD Canal (L-10)	SW	1003439	LWDD Canal (E-2 1/2-2)	SW	1008091
Lake Rebel	SW	1003307	SFWMD Canal (L-12)	SW	1003440	LWDD Canal (E-2 1/2-1)	SW	1008092
Lake Bernice	SW	1003308	SFWMD Canal (L-13)	SW	1003441	LWDD Canal (E-3 1/2-2)	SW	1008093
Lake Shaw	SW	1003309	SFWMD Canal (L-14)	SW	1003442	LWDD Canal (E-3 1/2-1)	SW	1008094
Lake Tyner	SW	1003310	SFWMD Canal (L-15)	SW	1003443	LWDD Canal (E-3 1/2-3)	SW	1008095
Lake Tez	SW	1003311	SFWMD Canal (L-16)	SW	1003444	LWDD Canal (E-3W-3)	SW	1008096
Lake Tibet Butler	SW	1003312	SFWMD Canal (L-18)	SW	1003445	LWDD Canal (E-3 1/2-1)	SW	1008097
Lake Tusher	SW	1003313	SFWMD Canal (L-19)	SW	1003446	LWDD Canal (E-3 1/2-2)	SW	1008098
Lemon Canal	SW	1003314	SFWMD Canal (L-28)	SW	1003447	On-site Reservoir	SW	1008099
Little Lake Sawyer	SW	1003315	SFWMD Canal (L-34)	SW	1003450	Lake Istokpoga	SW	1008100
LWDD Canal	SW	1003316	SFWMD Canal (L-36)	SW	1003451	Spring Lake	SW	1008101
LWDD Canal (E-1)	SW	1003317	SFWMD Canal (L-38)	SW	1003452	On-site Lined Lake	SW	1008102
LWDD Canal (E-2)	SW	1003318	SFWMD Canal (L-47)	SW	1003453	Marsey Canal	SW	1008103
LWDD Canal (E-2 1/2)	SW	1003319	SFWMD Canal (L-49)	SW	1003454	West Palm Beach Stor Canal	SW	1008104
LWDD Canal (E-3)	SW	1003320	SFWMD Canal (L-6)	SW	1003455	SF WMD Canal (L-63)	SW	1008105
LWDD Canal (E-4)	SW	1003321	SFWMD Canal (L-8)	SW	1003456	Green Acres Park Canal	SW	1008106
LWDD Canal (L-10)	SW	1003322	SFWMD Canal (North Nav River)	SW	1003457	Choice Park Canal	SW	1008107
LWDD Canal (L-12)	SW	1003323	Ten Mile Canal	SW	1003458	LWDD Canal (3-1)	SW	1008108
LWDD Canal (L-13)	SW	1003324	Third Canal	SW	1003459	LWDD Canal (3-2)	SW	1008109
LWDD Canal (L-14)	SW	1003325	Third Lake	SW	1003460	LWDD Canal (3-3)	SW	1008110
LWDD Canal (L-15)	SW	1003326	Tomoka Canal	SW	1003461	LWDD Canal (3-4)	SW	1008111
LWDD Canal (L-16)	SW	1003327	Tycoon Canal	SW	1003462	LWDD Canal (3-4W)	SW	1008112
LWDD Canal (L-17)	SW	1003328	Vanessa Canal	SW	1003463	LWDD Canal (3-5)	SW	1008113
LWDD Canal (L-18)	SW	1003329	Water Conservation Area No. 1	SW	1003464	LWDD Canal (3-6)	SW	1008114
LWDD Canal (L-19)	SW	1003330	West Canal	SW	1003465	LWDD Canal (3-7)	SW	1008115
LWDD Canal (L-20)	SW	1003331	Whisperwill Lake	SW	1003466	LWDD Canal (3-8)	SW	1008116
LWDD Canal (L-21)	SW	1003332	Whitney Creek Canal	SW	1003467	LWDD Canal (3-9)	SW	1008117
LWDD Canal (L-23)	SW	1003334	X-1 Canal	SW	1003468	LWDD Canal (3-10)	SW	1008118
LWDD Canal (L-24)	SW	1003335	Canal No. 300	SW	1003469	LWDD Canal (E-11)	SW	1008119
LWDD Canal (L-25)	SW	1003336	SFWMD Canal C-41	SW	1003640	SFWMD Canal (L-37)	SW	1008120
LWDD Canal (L-26)	SW	1003337	Intracoastal Waterway	SW	1003641	SFWMD Canal (L-29)	SW	1008121
LWDD Canal (L-27)	SW	1003338	Dade Perimeter Canal	SW	1003780	Caloosahatchee River	SW	1008122
LWDD Canal (L-28)	SW	1003339	ACME Improvement District Canal	SW	1003781	NSLRWCD Canal 39	SW	1008123
LWDD Canal (L-29)	SW	1003340	System	SW	1003782	L-99 Canal	SW	1008124
LWDD Canal (L-3)	SW	1003341	Lake Hatchineha	SW	1003783	L-101 Canal	SW	1008125
LWDD Canal (L 30)	SW	1003342	Thompson Canal	SW	1003784	Turkey Lake	SW	1008126
LWDD Canal (E-1)	SW	1003343	Broward County WCD Canal System	SW	1003785	Cocohatchee Water Control District Canal System	SW	1008127
LWDD Canal (E-2)	SW	1003344	11 Mile Creek	SW	1003786	South Broward Drainage District	SW	1008128
LWDD Canal (L-33)	SW	1003345	5 Mile Creek	SW	1003788	Montgomery Canal	SW	1008129
LWDD Canal (L-34)	SW	1003346	AIRPORT ROAD CANAL	SW	1003789	Reedy Creek	SW	1008130
LWDD Canal (L-35)	SW	1003347	ALLAPATTAH WATER MANAGEMENT CANAL	SW	1003791	Hot Bamper Canal (St. Lucie County)	SW	1008131
LWDD Canal (L-36)	SW	1003348	ARCUCHEE CREEK	SW	1003792	City of Port St Lucie canal system	SW	1008132
LWDD Canal (L-37)	SW	1003349	BANANA BRANCH	SW	1003793	S-1 Canal	SW	1008133
LWDD Canal (L-39)	SW	1003440	BARRON COLLIER WCD CANAL NO 3	SW	1003794	Coral Springs Improvement District Canal	SW	1008134
LWDD Canal (L-39)	SW	1003441	BAY LAKE	SW	1003795	Village of Wellington Canal System	SW	1008135
LWDD Canal (L-40)	SW	1003442	BOLLES CANAL	SW	1003796	South Florida Conservancy District Canal System	SW	1008136
LWDD Canal (L-41)	SW	1003443	BUTTONWOOD LAKE	SW	1003797	Indian Trail Improvement District Canal System	SW	1008137
LWDD Canal (L-42)	SW	1003444	C E SMITH CANAL	SW	1003798	NSLRWCD Canal (C-17)	SW	1008138
LWDD Canal (L-43)	SW	1003445	SFWMD Canal (C-17)	SW	1003799	NSLRWCD Canal (C-99)	SW	1008139
LWDD Canal (L-45)	SW	1003446	SFWMD Canal (C-19)	SW	1003800	Clewiston Drainage District Canal L-16	SW	1008140
LWDD Canal (L-46)	SW	1003447	SFWMD Canal (C-20)	SW	1003801	SFWMD Lake Okeechobee Rim Canal	SW	1008141
LWDD Canal (L-47)	SW	1003448	Daugherty's Creek	SW	1003802	Sunshine Water Control District East Basin	SW	1008142
LWDD Canal (L-48)	SW	1003449	DEVILS WASH BASIN	SW	1003803	Sunshine Water Control District West Basin	SW	1008143
LWDD Canal (L-49)	SW	1003450	Evergreen Canal	SW	1003804	NSRWCD Outfall Canal	SW	1008144
LWDD Canal (L-50)	SW	1003451	FISHEATING BREAMTER DITCH	SW	1003805	SRWCD East Feeder Canal	SW	1008145
LWDD Canal (L-7)	SW	1003452				HPBWCD Outfall Canal	SW	1008146
LWDD Canal (L-8)	SW	1003453				ENCON Reservoir Dock	SW	1008147

ABBREVIATION	DESCRIPTION
APP_NO	application number
CASED_DEPTH	casing is a pipe placed in a well to prevent the walls from caving and to seal off drainage, cased depth is the depth (distance in feet) that the casing extends to
FACINV_TYPE	facility inventory type
ID	the SFWMD facility identification number
LU_CODE	land use code
NAME	
PERMIT_NO	permit number
PROJECT_NAME	
PUMP_CAPACITY	the capacity of the pump in gallons per minute (gpm)
PUMP_COORDX	the pump x coordinate
PUMP_COORDY	the pump y coordinate
PWS_DATE	the date of pumpage
RAW_MAX_DAILY_PUMPAGE	the amount raw water
RAW_TOTAL_MONTH_PUMPAGE	the total amount of raw water pumped in one month (usually in million gallons_
REC_TOTAL_ANL_ALLOC	the permit's recommended total annual allocation (in million gallons, mg)
REC_TOTAL_MAX_DAY_ALLOC	the permit's recommended maximum daily allocation (in million gallons, mg)
REC_TOTAL_MAX_MON_ALLOC	the permit's recommended maximum monthly allocation (in million gallons, mg)
REQ_xxxx	the allocation that the permittee requested
RES xx	the reason (an explanation) for the allocation
STD xxx	standard- the 'industry' standard for a use, for example: livestock use xx gallons of water per day
STATUS	the status of the permit
TREATED_MAX_DAILY_PUMPAGE	the treated water maximum daily pumpage (in mg) usually for a public water supply.
TREATED_TOTAL_MONTH_PUMPA	the treated water total pumpage in one month (in mg) usually for a public water supply.
USE_DESC	use description
WELL_DEPTH	the total depth of the well
WELL_DIAMETER	the diameter of the well
WELL_NO	the well number
REC_PCUR	the project per capita use rate recommended by SFWMD staff (gallons per person per day)
REC_POP	the project population recommended by SFWMD staff

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APPENDIX C: MAPS

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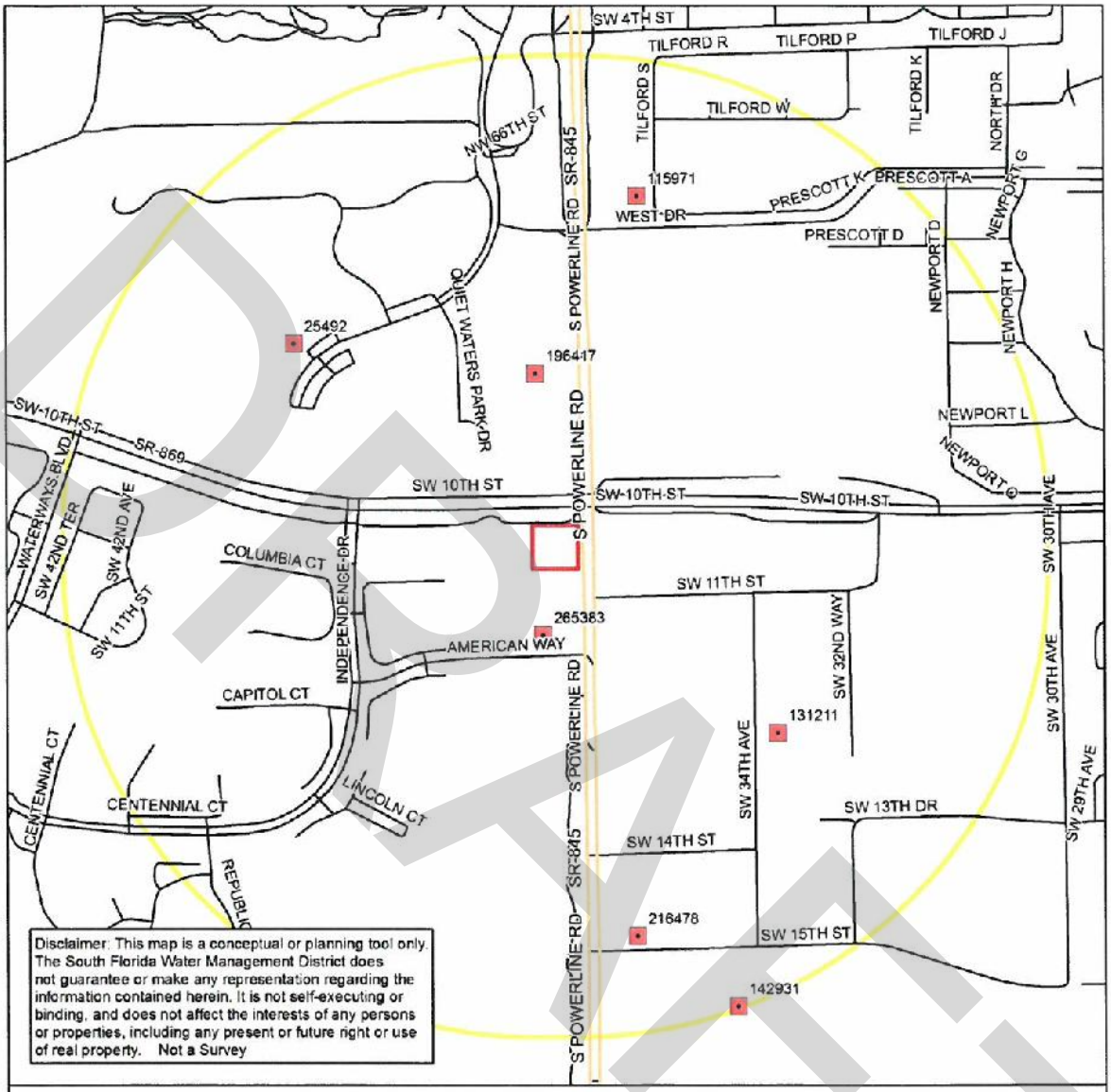

Broward County, FL DEERFIELD BEACH	Sec/Twp/Rge 09/48/42	Date 07/02/2015	Latitude (DMS): 26° 16m 13s N Longitude (DMS): 80° 9m 11s W	State Plane Coordinates X: 933627.08 Y: 716959.29

Area of Interest Report
SFWMD wells within half mile of 1011 S Powerline Road
Permitted Facilities (Wells)

Scale 1:9359

N W E S 0 850 1,700 Feet

sfwmd.gov

South Florida Water Management District
Regulation Division
Regulatory Support Bureau - GIS Section
3301 Gun Club Road
West Palm Beach, Florida 33406
Phone: (561) 682-6687

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ATTACHMENT F

FILL BUCKET & VAPOR BUCKET CLOSURE/UPGRADE REPORT

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ECOTECH
ENVIRONMENTAL SERVICES, INC.

March 20, 2015

Mr. Al Reid
Broward County Tank Section
Pollution Prevention Division
1 North University Drive, Suite 203
Plantation, FL 33324

Re: **First Coast Energy No. 1836**
1011 South Powerline Road
Deerfield Beach, Broward County, Florida
FDEP Identification No. 06/9800891

Subject: **Fill Bucket & Vapor Bucket Closure / Upgrade**

Dear Mr. Reid,

Ecotech Environmental Services, Inc. (Ecotech) was contracted by First Coast Energy to oversee and document five fill bucket and five vapor bucket closure/upgrade activities for the above referenced location. On March 9, 2015 Ecotech observed Universal Petroleum Services Incorporated (UPSI) performing upgrade activities. Upon arrival at the facility, Ecotech personnel observed and performed the following:

- A 7-foot x 3-foot' rectangle was saw-cut in concrete around each USTs fill and vapor bucket. Gravel was excavated down to approximately 3-feet below land surface (bls) during the upgrade activities at each excavation to accommodate the new hardware. The new fill buckets are double walled EMCO #1004-317S. The new vapor buckets are double walled EMCO #1004-317A.
- The existing fill material around the fill buckets were mostly pea gravel, which exhibited some elevated OVA responses above 10 parts per million (ppm) during the March 9, 2015 field event.
- Punctures to both UST #3 and UST #5's fill ports were reported during the upgrade activities. As a result, a Discharge Report Form (DRF) was submitted on March 10, 2015 and is included in **Attachment A**.
- Impacted soil was removed from the excavation and allowed to land farm on the concrete surface pavement for over 24-hours and then returned back into the substrate.
- Soil samples were collected at each UST, between each fill and vapor bucket at 2-3' bls from UST #1, UST #2, UST #3, UST #4, and UST #5 and were analyzed for BTEX/MTBE, PAHs, and TRPH/FLPRO analysis.
- A map illustrating the soil sample locations is included as **Figure 1**. See attached **Tables** for OVA and soil laboratory analytical results.
- Benzo(a)pyrene equivalent conversion tables are included in **Attachment B**.
- **Attachment C** provides photographs of the field activities completed.

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The soil laboratory analytical results for the samples collected from UST #1 (2-3'), UST #2 (2-3'), UST #3 (2-3'), UST #4 (2-3'), and UST #5 (2-3') on March 9, 2015 were below Direct Exposure Residential Soil Cleanup Target Levels (SCTLs) for both the parameters analyzed and benzo(a)pyrene equivalents. A copy of the soil laboratory analytical repsort is included in **Attachment D**. Although the soil analytical results were below SCTLs, UST #4 (2-3') indicated soil analytical results above leachability for groundwater criteria. Since a DRF was submitted for the subject facility, a full site assessment will be completed to evaluate the groundwater in the vicinity of the UST field area at a later date. Should you have any questions or require additional information, please contact Tim Dehen at 954-973-7792.

Sincerely,

ECOTECH ENVIRONMENTAL SERVICES, INC.

Irene M. Donaldson

Irene M. Donaldson
Project Manager

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FIGURE

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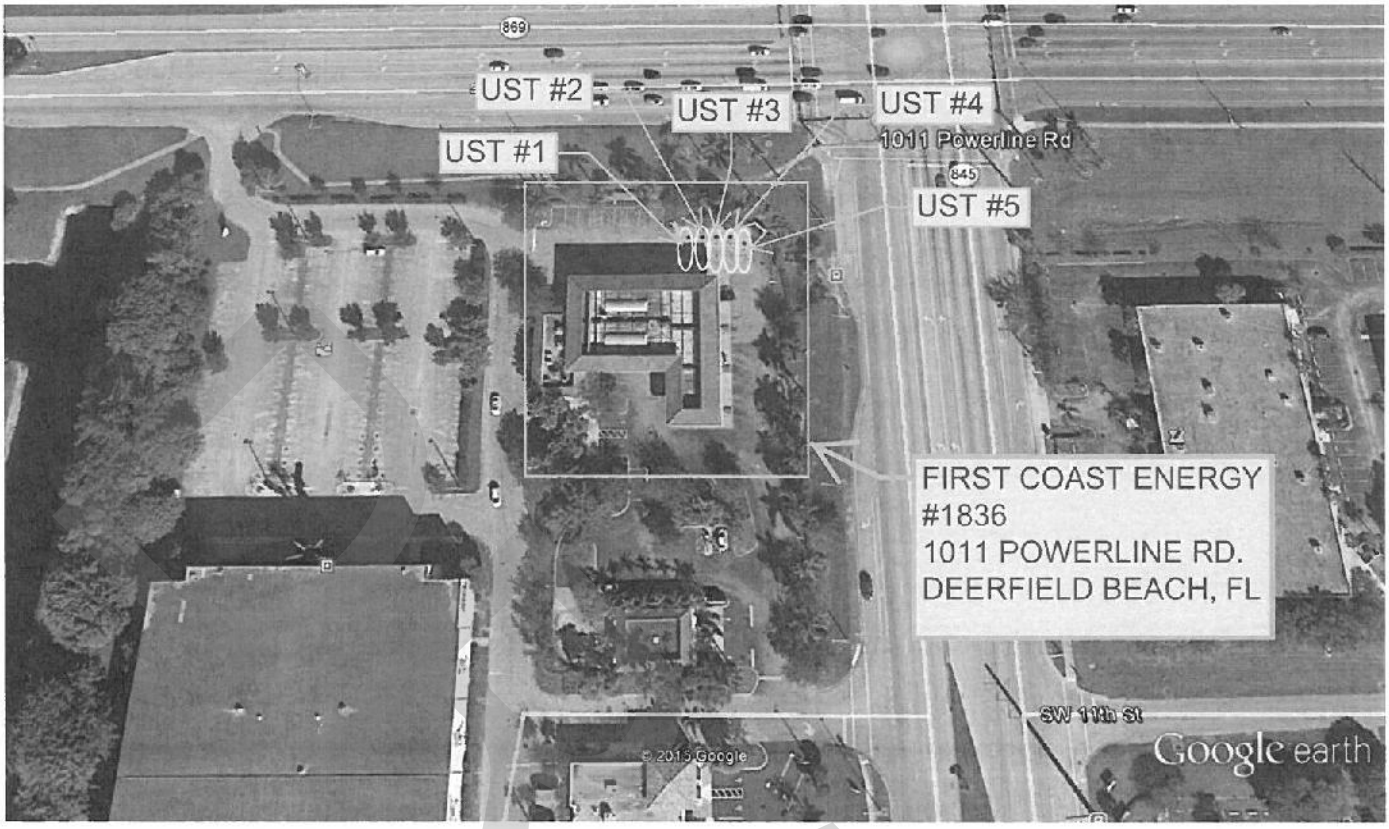

Google earth

feet 400

meters 100

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TABLES

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TABLE 1: SUMMARY OF OVA/PID FIELD SCREENING RESULTS

Facility Name: FIRST COAST ENERGY STORE #1834, 1011 S. POWERLINE RD., DEERFIELD BEEACH, FL

NS= No sample
OVA Response reported in parts per million (ppm)
VOC=Volatile Organic Compound

Sample	Date	Depth (FBLS)	OVA Response	Comments
UST #1 (2-3)	3/9/2015	0-6"	Concrete	Fill Port (FP)
		0-6"	Concrete	Vapor Bucket (VB)
		6"-1'	63.8	FB
		6"-1'	19	VB
		2-3'	81.9	In between FP and VB sample taken.
UST #2 (2-3)	3/9/2015	0-6"	Concrete	Fill Port (FP)
		0-6"	Concrete	Vapor Bucket (VB)
		6"-1'	274.5	FB
		6"-1'	2.3.	VB
		2-3'	11.6	In between FP and VB sample taken.
UST #3 (2-3)	3/9/2015	0-6"	Concrete	Fill Port (FP)
		0-6"	Concrete	Vapor Bucket (VB)
		6"-1'	1204	FB
		6"-1'	6.2	VB
		2-3'	65.4	In between FP and VB sample taken.
UST #4 (2-3)	3/9/2015	0-6"	Concrete	Fill Port (FP)
		0-6"	Concrete	Vapor Bucket (VB)
		6"-1'	364	FB
		6"-1'	20.7	VB
		2-3'	195	In between FP and VB sample taken.
UST #5 (2-3)	3/9/2015	0-6"	992	Fill Port (FP)
		0-6"	6.2	Vapor Bucket (VB)
		6"-1'	4892	FB
		6"-1'	14.7	VB
		2-3'	2061	In between FP and VB sample taken.

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TABLE 2: SOIL ANALYTICAL SUMMARY - BTEX/MTBE/ TRPH

Facility Name: FIRST COAST ENERGY STORE #1836, 1011 S. POWERLINE RD., DEERFIELD BEACH, FL

Sample				OVA	Laboratory Analyses					
Boring No.	Date Collected	Depth to Water (ft)	Sample Interval (fbls)	Net OVA Reading (ppm)	Benzene mg/Kg	Toluene mg/Kg	Ethyl-benzene mg/Kg	Total Xylenes mg/Kg	MTBE mg/Kg	TRPH mg/Kg
Direct Exposure Residential SCTLs					**1.2**	**7,500**	**1,500**	**130**	**4,400**	**340**
Direct Exposure Commercial/Industrial SCTLs					**1.7**	**60,000**	**9,200**	**700**	**24,000**	**460**
Leachability/Groundwater Criteria					**0.007**	**0.5**	**0.6**	**0.2**	**0.09**	**340**
UST #1 (2-3)	3/3/2015		2-3	81.9	0.00094 I	0.00046 U	0.00038 U	0.0012 I	0.00054 U	42
UST #2 (2-3)	3/3/2015		2-3	11.6	0.00057 U	0.00054 U	0.00044 U	0.0015 I	0.00063 U	11 U
UST #3 (2-3)	3/3/2015		2-3	65.4	0.0038 I	0.020	0.010	0.11	0.00077 U	74
UST #4 (2-3)	3/3/2015		2-3	195	0.01	0.130	0.036	0.73	0.00069 U	24
UST #5 (2-3)	3/3/2015		2-3	2061	0.00060 U	0.00057 U	0.0021 I	0.03	0.00066 U	240

U = Analyte not detected above the laboratory method detection limit.

J = Estimated value

I = Result was greater than or equal to the laboratory method detection limit but below the reporting limit

SCTL - Soil Cleanup Target Level

LTM

TABLE 3: SOIL SAMPLING ANALYTICAL SUMMARY

Facility Name: FCE 1836
1011 S. POWERLINE RD., DEERFIELD BEACH, FL

I/i = Value between MDL & MQL
D = sample was diluted
U = Compound not detected at level shown

NPH = Net Petroleum Hydrocarbon concentration (total FID - filtered FID)
NA = Not Analyzed
BOLD = exceeds Table II

Sample		Naphthalene (mg/kg)	1-Methylnaphthalene (mg/kg)	2-Methylnaphthalene (mg/kg)	Acenaphthene (mg/kg)	Acenaphthylene (mg/kg)	Anthracene (mg/kg)	Benzo(a)anthracene (mg/kg)	Benzo(a)pyrene (mg/kg)	Benzo(b)fluoranthene (mg/kg)	Benzo(g,h,i)perylene (mg/kg)	Benzo(k)fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno(1,2,3-cd)pyrene (mg/kg)	Phenanthrene (mg/kg)	Pyrene (mg/kg)
Location	Date																		
Table II Leachability Limit		1.2	3.1	8.5	2.1	27	2,500	0.8	8	2.4	32,000	24	77	0.7	1,200	160	6.6	250	880
Table II Direct Exposure Limit		55	200	210	2,400	1,800	21,000		0.1		2,500				3,200	2,600		2,200	2,400
UST #1 (2-3)	3/9/2015	0.0068 I	0.0046 I	0.0031 U	0.0026 U	0.0025 U	0.0022 U	0.0024 U	0.0022 U	0.0024 U	0.0059 U	0.0021 U	0.0024 U	0.0067 U	0.0021 U	0.0026 U	0.0039 U	0.0021 U	0.0020 U
UST #2 (2-3)	3/9/2015	0.0073 I	0.0043 I	0.0060 I	0.0027 U	0.0025 U	0.0022 U	0.0098	0.0095	0.016	0.0060 U	0.0058 I	0.013	0.0069 U	0.0091	0.0027 U	0.0040 U	0.0023 I	0.012
UST #3 (2-3)	3/9/2015	0.41	0.29	0.57	0.0028 U	0.0026 U	0.010	0.0065 I	0.0049 I	0.0051	0.013	0.0022 U	0.0039 I	0.0071 U	0.0056 I	0.025	0.0053 I	0.022	0.0021 U
UST #4 (2-3)	3/9/2015	0.032	0.0032 U	0.0042 U	0.0027 U	0.0026 U	0.0023 U	0.0025 U	0.0023 U	0.0025 U	0.0062 U	0.0022 U	0.0025 U	0.0070 U	0.0022 U	0.0028 U	0.0040 U	0.0022 U	0.0021 U
UST #5 (2-3)	3/9/2015	0.030	0.071	0.10	0.0026 U	0.0064 I	0.0022 U	0.0023 U	0.0022 U	0.0024 U	0.0059 U	0.0021 U	0.0023 U	0.0067 U	0.0026 I	0.0026 U	0.0039 U	0.027	0.033

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ATTACHMENT A
DISCHARGE REPORT FORM

Discharge Reporting Form

PLEASE PRINT OR TYPE

DEP Form # 62-761.900(1)
Form Title Discharge Reporting Form
Effective Date

Instructions are on the reverse side. Please complete all applicable blanks

1. Facility ID Number (if registered): 4800891 **2. Date of form completion:** 3-10-15

3. General information
Facility name: First Coast Energy #1836
Facility Owner or Operator: First Coast Energy, LLP
Facility Contact Person: Kevin Kusmisek Telephone number: (954) 596-3242 County: Broward
Facility Mailing address: 6011 S. Powerline Road, Deerfield Beach, FL 33442
Location of discharge (facility street address): Same as above
Latitude and Longitude of discharge (If known.) Lat: 26:13:13 Long: 80:09:10

4. Date of receipt of test results or discovery of confirmed discharge: 3-10-15 month/day/year

5. Estimated number of gallons discharged: Unknown

6. Discharge affected: [ ] Air [X] Soil [ ] Ground water [ ] Drinking water well(s) [ ] Shoreline [ ] Surface water (water body name)

7. Method of discovery (check all that apply)

[ ] Liquid detector (automatic or manual)	[ ] Internal inspection	[X] Closure/Closure Assessment
[ ] Vapor detector (automatic or manual)	[ ] Inventory control	[ ] Groundwater analytical samples
[ ] Tightness test	[ ] Monitoring wells	[ ] Soil analytical tests or samples
[ ] Pressure test	[ ] Automatic tank gauging	[ ] Visual observation
[ ] Statistical Inventory Reconciliation	[ ] Manual tank gauging	[ ] Other

8. Type of regulated substance discharged: (check one)

[ ] Unknown	[ ] Used/waste oil	[ ] Jet fuel	[ ] Heating oil	[ ] New/lube oil
[X] Gasoline	[ ] Aviation gas	[ ] Diesel	[ ] Kerosine	[ ] Mineral acid

[ ] Hazardous substance - includes CERCLA substances from USTs above reportable quantities, pesticides, ammonia, chlorine, and derivatives (write in name or Chemical Abstract Service (CAS) number)
[ ] Other

9. Discharge originated from a: (check all that apply)

[ ] Dispensing system	[ ] Pipe	[ ] Barge	[ ] Pipeline	[ ] Vehicle
[ ] Tank	[ ] Fitting	[ ] Tanker ship	[ ] Railroad tankcar	[ ] Airplane
[ ] Unknown	[ ] Valve failure	[ ] Other Vessel	[ ] Tank truck	[ ] Drum

[X] Other Fill Bucket

10. Cause of the discharge: (check all that apply)

[ ] Loose connection	[X] Puncture	[ ] Spill	[ ] Collision	[ ] Corrosion
[ ] Fire/explosion	[X] Overfill	[ ] Human error	[ ] Vehicle Accident	[ ] Installation failure

[ ] Other

11. Actions taken in response to the discharge: Damaged fill buckets have been replaced and a closure assessment was performed.

12. Comments: Awaiting confirmatory soil sample results from the lab.

13. Agencies notified (as applicable):

[ ] State Warning Point 1-800-320-0519	[ ] National Response Center 1-800-424-8802	[ ] Fire Department	[ ] County Tanks Program	[ ] DEP (district/person)

14. To the best of my knowledge and belief all information submitted on this form is true, accurate, and complete.

Kevin Kusmirek
Printed Name of Owner, Operator or Authorized Representative

Signature of Owner, Operator or Authorized Representative

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ATTACHMENT B
BENZO(A)PRENE EQUIVALENT CONVERSION TABLES

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Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name:	FCE 1836
Location:	1011 S. POWERLINE RD.
Facility/Site ID No.:	06/9800891
Soil Sample No.	UST #1 (2-3)
Sample Date	3/9/2015 16:30
Location:	UST #1
Depth (ft):	(2-3')

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents 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", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. 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;
5. 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	0.0011
Benzo(a)anthracene	0.001	0.1	0.0001
Benzo(b)fluoranthene	0.001	0.1	0.0001
Benzo(k)fluoranthene	0.001	0.01	0.0000
Chrysene	0.001	0.001	0.0000
Dibenz(a,h)anthracene	0.003	1.0	0.0034
Indeno(1,2,3-cd)pyrene	0.002	0.1	0.0002

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = **0.0**

The concentration shown does not exceed the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown does not exceed the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	**Concentration Reported**	**Data Qualifier**	**Enter**
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
≥ MDL but < PQL	Estimated	I	reported (estimated) value
≥ MDL but < PQL	PQL	M	1/2 reported value

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Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name:	FCE 1836
Location:	1011 S. POWERLINE RD.
Facility/Site ID No.:	06/9800891
Soil Sample No.	UST #2 (2-3)
Sample Date	3/9/2015 16:25
Location:	UST #2
Depth (ft):	(2-3')

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents 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", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. 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;
5. 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	0.010	1.0	0.0095
Benzo(a)anthracene	0.010	0.1	0.0010
Benzo(b)fluoranthene	0.016	0.1	0.0016
Benzo(k)fluoranthene	0.006	0.01	0.0001
Chrysene	0.013	0.001	0.0000
Dibenz(a,h)anthracene	0.003	1.0	0.0035
Indeno(1,2,3-cd)pyrene	0.002	0.1	0.0002

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = **0.0**

The concentration shown does not exceed the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown does not exceed the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	Concentration Reported	Data Qualifier	Enter
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
≥ MDL but < PQL	Estimated	I	reported (estimated) value
≥ MDL but < PQL	PQL	M	1/2 reported value

DRAFT

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name:	FCE 1836
Location:	1011 S. POWERLINE RD.
Facility/Site ID No.:	06/9800891
Soil Sample No.	UST #3 (2-3)
Sample Date	3/9/2015 16:23
Location:	UST #3
Depth (ft):	(2-3')

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents 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", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. 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;
5. 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	0.005	1.0	0.0049
Benzo(a)anthracene	0.007	0.1	0.0007
Benzo(b)fluoranthene	0.005	0.1	0.0005
Benzo(k)fluoranthene	0.001	0.01	0.0000
Chrysene	0.004	0.001	0.0000
Dibenz(a,h)anthracene	0.004	1.0	0.0036
Indeno(1,2,3-cd)pyrene	0.005	0.1	0.0005

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = **0.0**

The concentration shown does not exceed the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown does not exceed the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	**Concentration Reported**	**Data Qualifier**	**Enter**
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
≥ MDL but < PQL	Estimated	I	reported (estimated) value
≥ MDL but < PQL	PQL	M	1/2 reported value

DRAFT

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: FCE 1836
Location: 1011 S. POWERLINE RD.
Facility/Site ID No.: 06/9800891

Soil Sample No. UST #4 (2-3)
Sample Date 3/9/2015 16:20
Location: UST #4
Depth (ft): (2-3')

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents 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", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. 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;
5. 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	0.0012
Benzo(a)anthracene	0.001	0.1	0.0001
Benzo(b)fluoranthene	0.001	0.1	0.0001
Benzo(k)fluoranthene	0.001	0.01	0.0000
Chrysene	0.001	0.001	0.0000
Dibenz(a,h)anthracene	0.004	1.0	0.0035
Indeno(1,2,3-cd)pyrene	0.002	0.1	0.0002

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = **0.0**

The concentration shown does not exceed the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown does not exceed the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	**Concentration Reported**	**Data Qualifier**	**Enter**
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
≥ MDL but < PQL	Estimated	I	reported (estimated) value
≥ MDL but < PQL	PQL	M	1/2 reported value

DRAFT

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: FCE 1836
Location: 1011 S. POWERLINE RD.
Facility/Site ID No.: 06/9800891

Soil Sample No. UST #5 (2-3)
Sample Date 3/9/2015 16:15
Location: UST #5
Depth (ft): (2-3')

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents 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", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. 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;
5. 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	0.0011
Benzo(a)anthracene	0.001	0.1	0.0001
Benzo(b)fluoranthene	0.001	0.1	0.0001
Benzo(k)fluoranthene	0.001	0.01	0.0000
Chrysene	0.001	0.001	0.0000
Dibenz(a,h)anthracene	0.003	1.0	0.0034
Indeno(1,2,3-cd)pyrene	0.002	0.1	0.0002

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 0.0

The concentration shown does not exceed the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown does not exceed the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	**Concentration Reported**	**Data Qualifier**	**Enter**
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
≥ MDL but < PQL	Estimated	I	reported (estimated) value
≥ MDL but < PQL	PQL	M	1/2 reported value

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ATTACHMENT C
FIELD PHOTOGRAPHS

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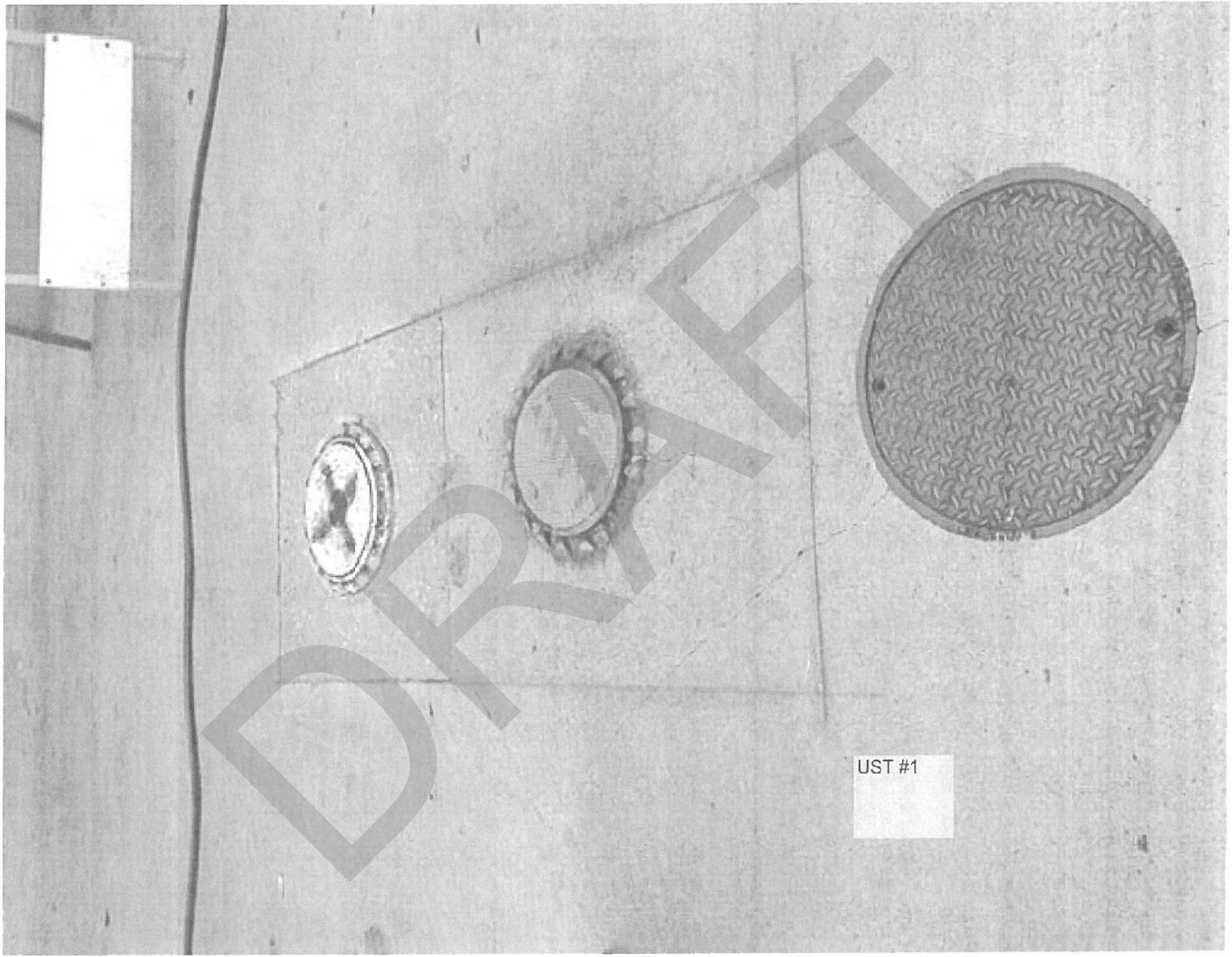

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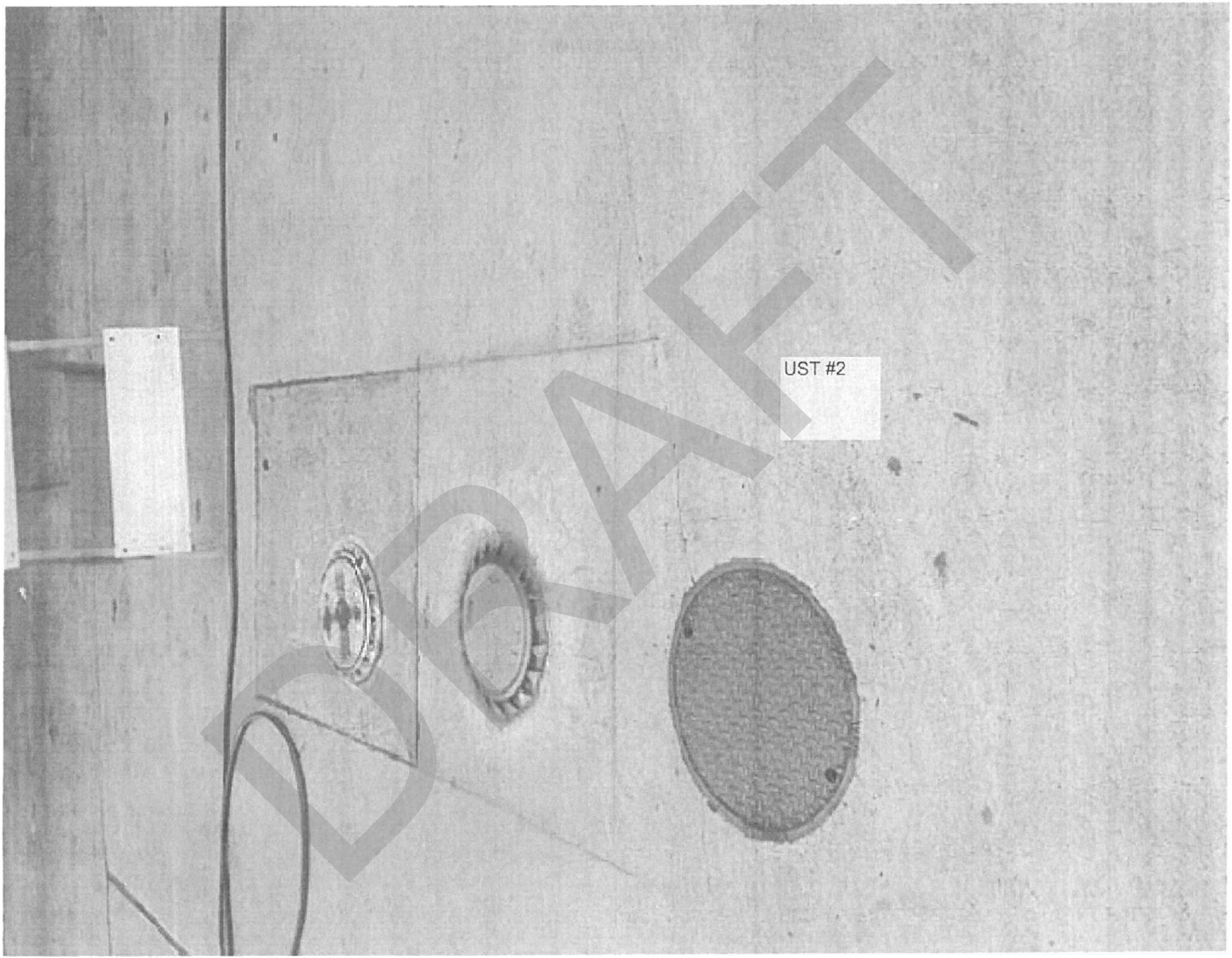

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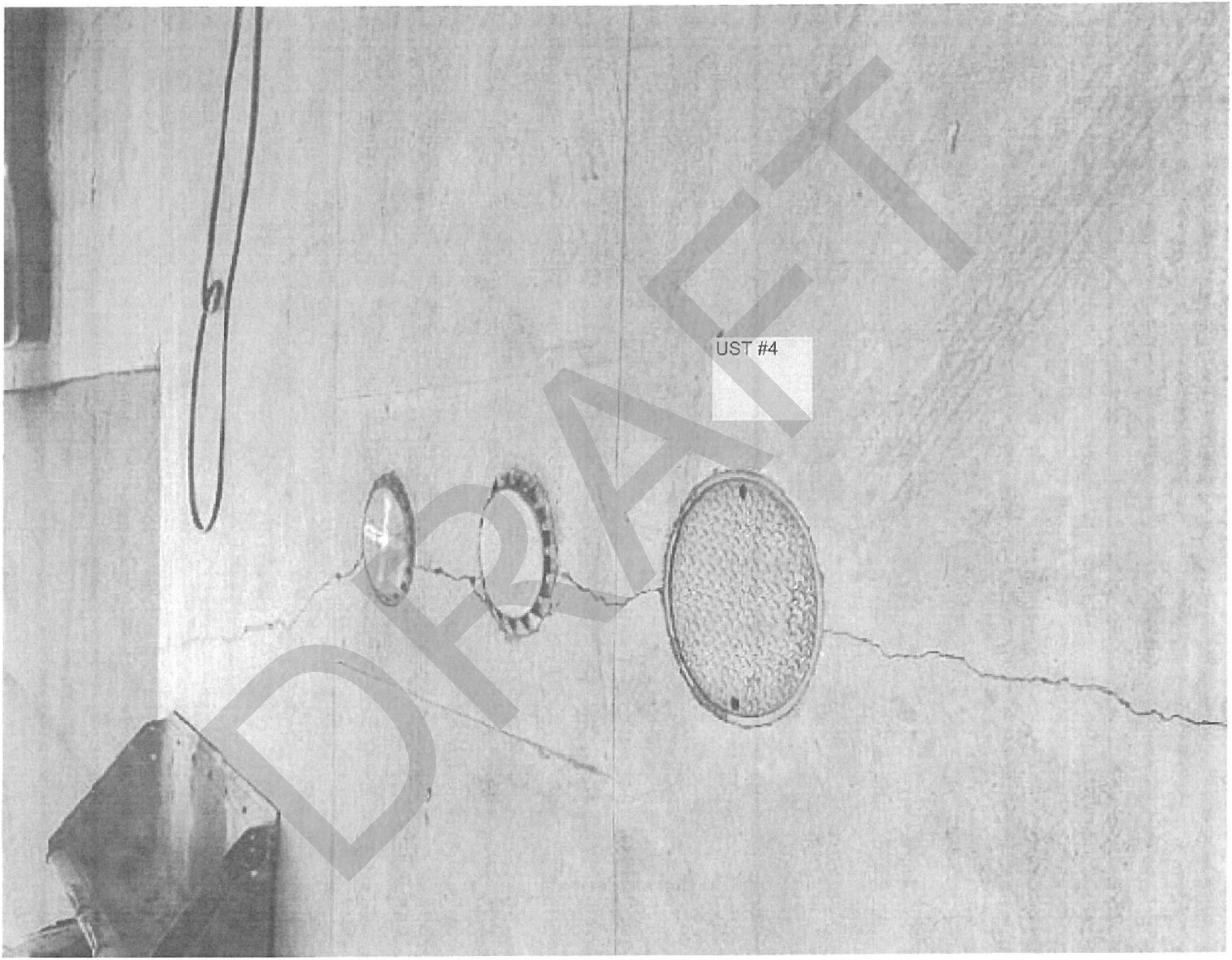

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UST #5

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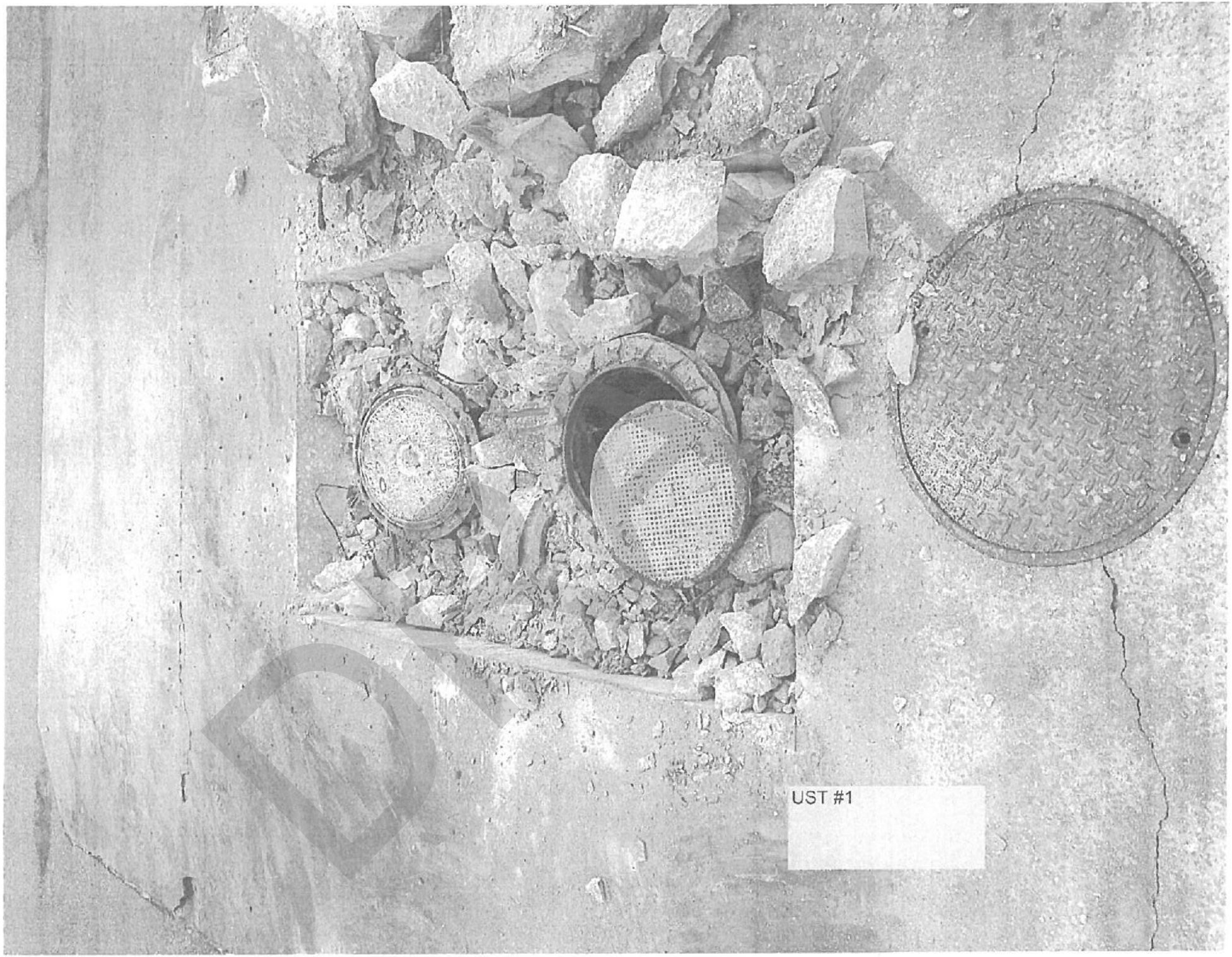

UST #1


UST #2


UST #3


UST #3


UST #3 - CRACK
IN FILLPORT


UST #1

UST #2

UST #4

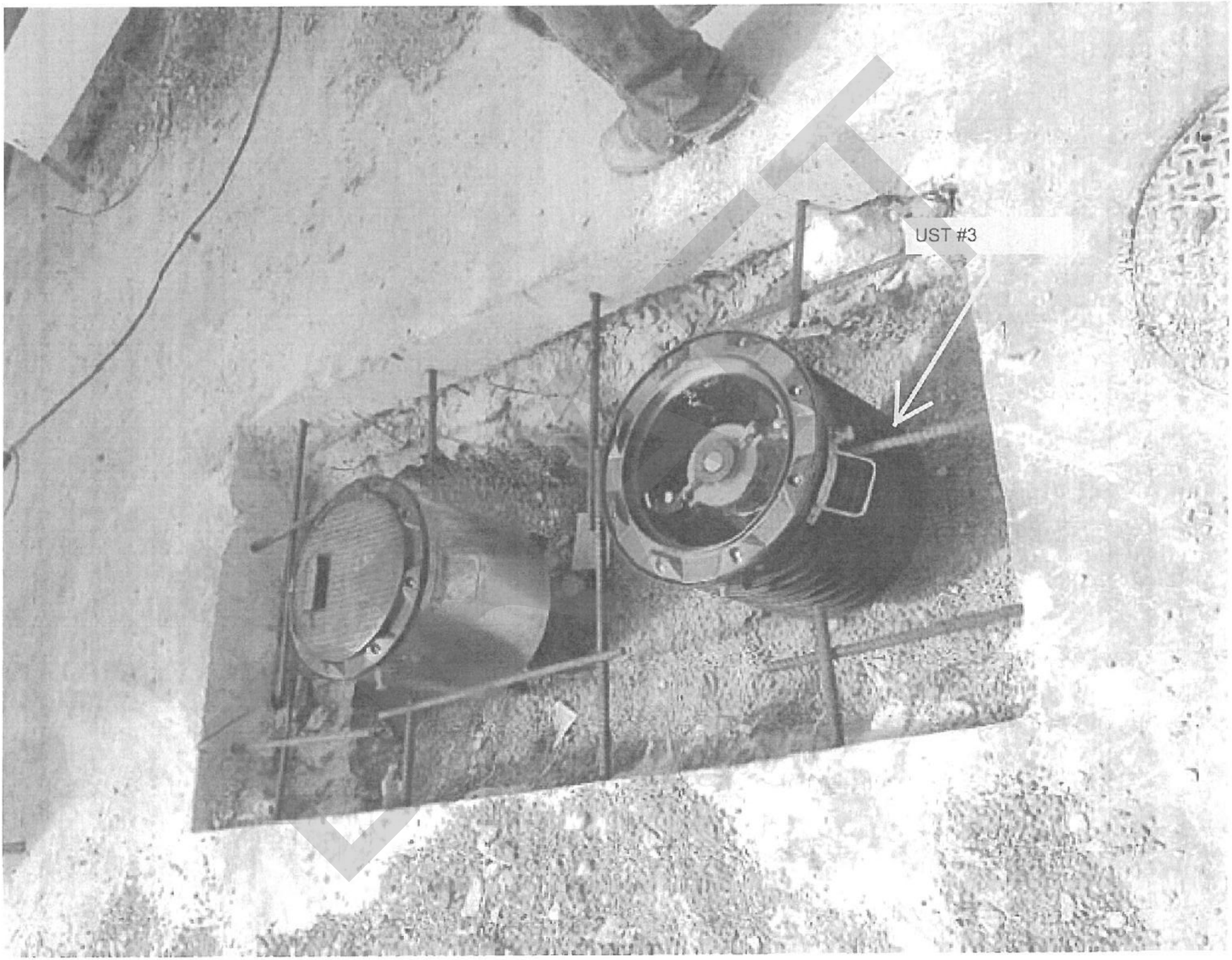
UST #4

UST #5
UST #4

UST #4

UST #5

BOB'S BARRICADES
UST #4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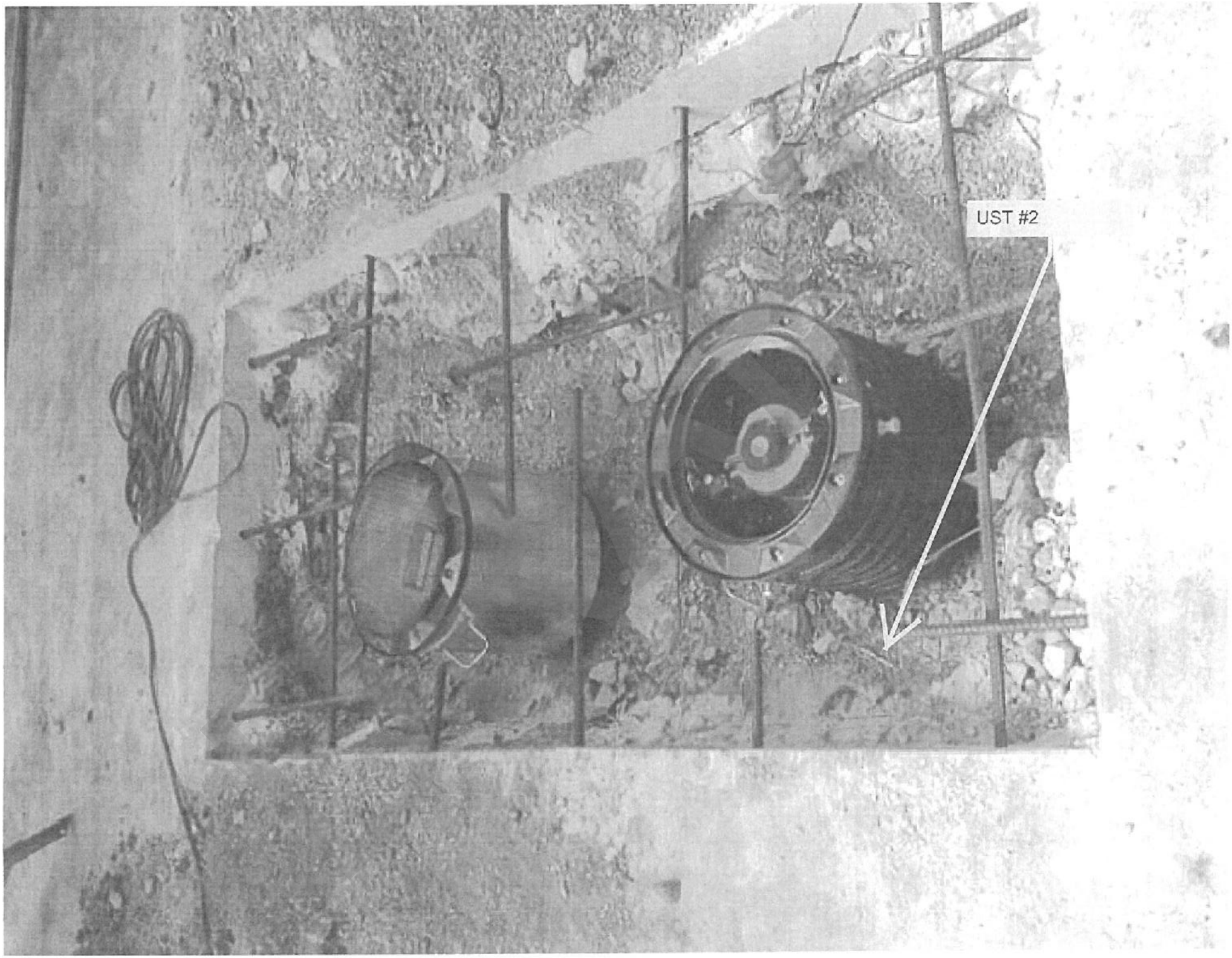
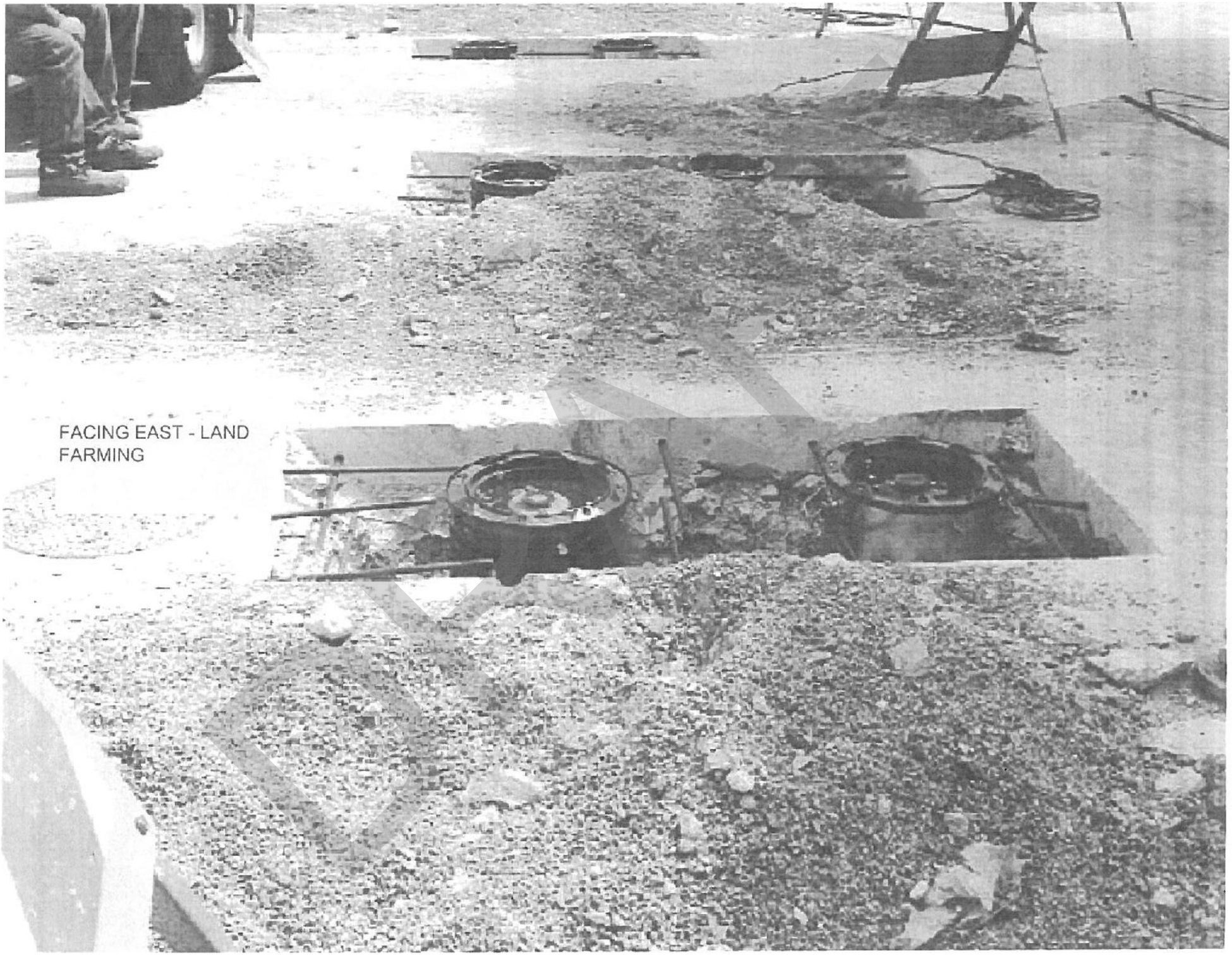

UST #2

UST #1



FACING EAST - LAND FARMING

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Quality
Selection
4630

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ATTACHMENT D
SOIL LABORATORY ANALYTICAL REPORT

Advanced Environmental Laboratories, Inc.

Advanced Environmental Laboratories, Inc
10200 USA Today Way Miramar, FL 33025
Payments: P.O. Box 551580 Jacksonville, FL 32255-1580
Phone: (954)889-2288
Fax: (954)889-2281

March 17, 2015

Irene Giovenco Donaldson
Ecotech Environmental Services, Inc.
3260 NW 23rd Avenue Ste 1400-E
Pompano Beach, FL 33069

RE: Workorder: M1500982 FCE 1836

Dear Irene Donaldson:

Enclosed are the analytical results for sample(s) received by the laboratory on Tuesday, March 10, 2015. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kathy Williams
KWilliams@AELLab.com

Enclosures

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3004.1.0.0

Advanced Environmental Laboratories, Inc.

Advanced Environmental Laboratories, Inc
10200 USA Today Way Miramar, FL 33025
Payments: P.O. Box 551580 Jacksonville, FL 32255-1580
Phone: (954)889-2288
Fax: (954)889-2281

SAMPLE SUMMARY

Workorder: M1500982 FCE 1836

Lab ID	Sample ID	Matrix	Date Collected	Date Received
M1500982001	UST #1 (2-3)	Soil	3/9/2015 16:30	3/10/2015 11:22
M1500982002	UST #2 (2-3)	Soil	3/9/2015 16:25	3/10/2015 11:22
M1500982003	UST #3 (2-3)	Soil	3/9/2015 16:23	3/10/2015 11:22
M1500982004	UST #4 (2-3)	Soil	3/9/2015 16:20	3/10/2015 11:22
M1500982005	UST #5 (2-3)	Soil	3/9/2015 16:15	3/10/2015 11:22

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Phone: (954)889-2288
Fax: (954)889-2281

ANALYTICAL RESULTS

Workorder: M1500982 FCE 1836

Lab ID: **M1500982001** Date Received: 03/10/15 11:22 Matrix: Soil

Sample ID: **UST #1 (2-3)** Date Collected: 03/09/15 16:30

Results for sample M1500982001 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: Flo-Pro Analysis, Soil	Preparation Method: FL-PRO							
	Analytical Method: FL-PRO							
TPH	42		mg/Kg	1	18	10	3/12/2015 13:00	M
o-Terphenyl (S)	88		%	1	62-109		3/12/2015 13:00	
Nonatricontane-C39 (S)	85		%	1	60-118		3/12/2015 13:00	
Analysis Desc: 8270C-SIM Analysis, Soil	Preparation Method: SW-846 3550B							
	Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	0.0046	I	mg/Kg	1	0.0084	0.0031	3/12/2015 18:52	M
2-Methylnaphthalene	0.0031	U	mg/Kg	1	0.0084	0.0031	3/12/2015 18:52	M
Acenaphthene	0.0026	U	mg/Kg	1	0.0084	0.0026	3/12/2015 18:52	M
Acenaphthylene	0.0025	U	mg/Kg	1	0.0084	0.0025	3/12/2015 18:52	M
Anthracene	0.0022	U	mg/Kg	1	0.0084	0.0022	3/12/2015 18:52	M
Benzo[a]anthracene	0.0024	U	mg/Kg	1	0.0084	0.0024	3/12/2015 18:52	M
Benzo[a]pyrene	0.0022	U	mg/Kg	1	0.0084	0.0022	3/12/2015 18:52	M
Benzo[b]fluoranthene	0.0024	U	mg/Kg	1	0.0042	0.0024	3/12/2015 18:52	M
Benzo[g,h,i]perylene	0.0059	U	mg/Kg	1	0.0084	0.0059	3/12/2015 18:52	M
Benzo[k]fluoranthene	0.0021	U	mg/Kg	1	0.0084	0.0021	3/12/2015 18:52	M
Chrysene	0.0024	U	mg/Kg	1	0.0084	0.0024	3/12/2015 18:52	M
Dibenzo[a,h]anthracene	0.0067	U	mg/Kg	1	0.0084	0.0067	3/12/2015 18:52	M
Fluoranthene	0.0021	U	mg/Kg	1	0.0084	0.0021	3/12/2015 18:52	M
Fluorene	0.0026	U	mg/Kg	1	0.0084	0.0026	3/12/2015 18:52	M
Indeno(1,2,3-cd)pyrene	0.0039	U	mg/Kg	1	0.0084	0.0039	3/12/2015 18:52	M
Naphthalene	0.0068	I	mg/Kg	1	0.0084	0.0055	3/12/2015 18:52	M
Phenanthrene	0.0021	U	mg/Kg	1	0.0084	0.0021	3/12/2015 18:52	M
Pyrene	0.0020	U	mg/Kg	1	0.0084	0.0020	3/12/2015 18:52	M
Nitrobenzene-d5 (S)	82		%	1	46-118		3/12/2015 18:52	
2-Fluorobiphenyl (S)	97		%	1	54-134		3/12/2015 18:52	
p-Terphenyl-d14 (S)	73		%	1	60-143		3/12/2015 18:52	
VOLATILES								
Analysis Desc: 8260B Analysis, Soil	Preparation Method: SW-846 5035							
	Analytical Method: SW-846 8260B							
Benzene	0.94	I	ug/Kg	1	6.0	0.49	3/12/2015 00:05	M
Ethylbenzene	0.38	U	ug/Kg	1	6.0	0.38	3/12/2015 00:05	M
Methyl tert-butyl Ether (MTBE)	0.54	U	ug/Kg	1	6.0	0.54	3/12/2015 00:05	M
Toluene	0.46	U	ug/Kg	1	6.0	0.46	3/12/2015 00:05	M

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Advanced Environmental Laboratories, Inc.

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10200 USA Today Way Miramar, FL 33025
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Phone: (954)889-2288
Fax: (954)889-2281

ANALYTICAL RESULTS

Workorder: M1500982 FCE 1836

Lab ID: **M1500982001** Date Received: 03/10/15 11:22 Matrix: Soil

Sample ID: **UST #1 (2-3)** Date Collected: 03/09/15 16:30

Results for sample M1500982001 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Xylene (Total)	1.2	I	ug/Kg	1	6.0	0.50	3/12/2015 00:05	M
1,2-Dichloroethane-d4 (S)	96		%	1	80-120		3/12/2015 00:05	
Toluene-d8 (S)	94		%	1	81-117		3/12/2015 00:05	
Bromofluorobenzene (S)	101		%	1	74-121		3/12/2015 00:05	
VOLATILES								
Analysis Desc: Percent Solids,SM2540G,Soil	Analytical Method: SM 2540G							
Percent Moisture	5.1		%	1			3/12/2015 14:46	M

Lab ID: **M1500982002** Date Received: 03/10/15 11:22 Matrix: Soil

Sample ID: **UST #2 (2-3)** Date Collected: 03/09/15 16:25

Results for sample M1500982002 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: Flo-Pro Analysis, Soil	Preparation Method: FL-PRO Analytical Method: FL-PRO							
TPH	11	U	mg/Kg	1	18	11	3/16/2015 20:28	M
o-Terphenyl (S)	95		%	1	62-109		3/16/2015 20:28	
Nonatricontane-C39 (S)	117		%	1	60-118		3/16/2015 20:28	
Analysis Desc: 8270C-SIM Analysis, Soil	Preparation Method: SW-846 3550B Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	0.0043	I	mg/Kg	1	0.0086	0.0032	3/11/2015 15:37	M
2-Methylnaphthalene	0.0060	I	mg/Kg	1	0.0086	0.0032	3/11/2015 15:37	M
Acenaphthene	0.0027	U	mg/Kg	1	0.0086	0.0027	3/11/2015 15:37	M
Acenaphthylene	0.0025	U	mg/Kg	1	0.0086	0.0025	3/11/2015 15:37	M
Anthracene	0.0022	U	mg/Kg	1	0.0086	0.0022	3/11/2015 15:37	M
Benzo[a]anthracene	0.0098		mg/Kg	1	0.0086	0.0024	3/11/2015 15:37	M
Benzo[a]pyrene	0.0095		mg/Kg	1	0.0086	0.0023	3/11/2015 15:37	M
Benzo[b]fluoranthene	0.016		mg/Kg	1	0.0043	0.0025	3/11/2015 15:37	M
Benzo[g,h,i]perylene	0.0060	U	mg/Kg	1	0.0086	0.0060	3/11/2015 15:37	M
Benzo[k]fluoranthene	0.0058	I	mg/Kg	1	0.0086	0.0021	3/11/2015 15:37	M
Chrysene	0.013		mg/Kg	1	0.0086	0.0024	3/11/2015 15:37	M

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ANALYTICAL RESULTS

Workorder: M1500982 FCE 1836

Lab ID: **M1500982002** Date Received: 03/10/15 11:22 Matrix: Soil

Sample ID: **UST #2 (2-3)** Date Collected: 03/09/15 16:25

Results for sample M1500982002 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Dibenzo[a,h]anthracene	0.0069	U	mg/Kg	1	0.0086	0.0069	3/11/2015 15:37	M
Fluoranthene	0.0091		mg/Kg	1	0.0086	0.0022	3/11/2015 15:37	M
Fluorene	0.0027	U	mg/Kg	1	0.0086	0.0027	3/11/2015 15:37	M
Indeno(1,2,3-cd)pyrene	0.0040	U	mg/Kg	1	0.0086	0.0040	3/11/2015 15:37	M
Naphthalene	0.0073	I	mg/Kg	1	0.0086	0.0056	3/11/2015 15:37	M
Phenanthrene	0.0023	I	mg/Kg	1	0.0086	0.0022	3/11/2015 15:37	M
Pyrene	0.012		mg/Kg	1	0.0086	0.0020	3/11/2015 15:37	M
Nitrobenzene-d5 (S)	48		%	1	46-118		3/11/2015 15:37	
2-Fluorobiphenyl (S)	65		%	1	54-134		3/11/2015 15:37	
p-Terphenyl-d14 (S)	61		%	1	60-143		3/11/2015 15:37	
VOLATILES								
Analysis Desc: 8260B Analysis, Soil	Preparation Method: SW-846 5035							
	Analytical Method: SW-846 8260B							
Benzene	0.57	U	ug/Kg	1	7.0	0.57	3/12/2015 00:36	M
Ethylbenzene	0.44	U	ug/Kg	1	7.0	0.44	3/12/2015 00:36	M
Methyl tert-butyl Ether (MTBE)	0.63	U	ug/Kg	1	7.0	0.63	3/12/2015 00:36	M
Toluene	0.54	U	ug/Kg	1	7.0	0.54	3/12/2015 00:36	M
Xylene (Total)	1.5	I	ug/Kg	1	7.0	0.59	3/12/2015 00:36	M
1,2-Dichloroethane-d4 (S)	94		%	1	80-120		3/12/2015 00:36	
Toluene-d8 (S)	95		%	1	81-117		3/12/2015 00:36	
Bromofluorobenzene (S)	97		%	1	74-121		3/12/2015 00:36	
VOLATILES								
Analysis Desc: Percent Solids,SM2540G,Soil	Analytical Method: SM 2540G							
Percent Moisture	7.7		%	1			3/12/2015 14:46	M

Lab ID: **M1500982003** Date Received: 03/10/15 11:22 Matrix: Soil

Sample ID: **UST #3 (2-3)** Date Collected: 03/09/15 16:23

Results for sample M1500982003 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								

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ANALYTICAL RESULTS

Workorder: M1500982 FCE 1836

Lab ID: **M1500982003** Date Received: 03/10/15 11:22 Matrix: Soil

Sample ID: **UST #3 (2-3)** Date Collected: 03/09/15 16:23

Results for sample M1500982003 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Flo-Pro Analysis, Soil	Preparation Method: FL-PRO							
	Analytical Method: FL-PRO							
TPH	74		mg/Kg	1	19	11	3/11/2015 20:48	M
o-Terphenyl (S)	93		%	1	62-109		3/11/2015 20:48	
Nonatricontane-C39 (S)	84		%	1	60-118		3/11/2015 20:48	
Analysis Desc: 8270C-SIM Analysis, Soil	Preparation Method: SW-846 3550B							
	Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	0.29		mg/Kg	1	0.0089	0.0032	3/11/2015 16:05	M
2-Methylnaphthalene	0.57		mg/Kg	1	0.0089	0.0032	3/11/2015 16:05	M
Acenaphthene	0.0028	U	mg/Kg	1	0.0089	0.0028	3/11/2015 16:05	M
Acenaphthylene	0.0026	U	mg/Kg	1	0.0089	0.0026	3/11/2015 16:05	M
Anthracene	0.010		mg/Kg	1	0.0089	0.0023	3/11/2015 16:05	M
Benzo[a]anthracene	0.0065	I	mg/Kg	1	0.0089	0.0025	3/11/2015 16:05	M
Benzo[a]pyrene	0.0049	I	mg/Kg	1	0.0089	0.0024	3/11/2015 16:05	M
Benzo[b]fluoranthene	0.0051		mg/Kg	1	0.0044	0.0025	3/11/2015 16:05	M
Benzo[g,h,i]perylene	0.013		mg/Kg	1	0.0089	0.0062	3/11/2015 16:05	M
Benzo[k]fluoranthene	0.0022	U	mg/Kg	1	0.0089	0.0022	3/11/2015 16:05	M
Chrysene	0.0039	I	mg/Kg	1	0.0089	0.0025	3/11/2015 16:05	M
Dibenzo[a,h]anthracene	0.0071	U	mg/Kg	1	0.0089	0.0071	3/11/2015 16:05	M
Fluoranthene	0.0056	I	mg/Kg	1	0.0089	0.0022	3/11/2015 16:05	M
Fluorene	0.025		mg/Kg	1	0.0089	0.0028	3/11/2015 16:05	M
Indeno(1,2,3-cd)pyrene	0.0053	I	mg/Kg	1	0.0089	0.0041	3/11/2015 16:05	M
Naphthalene	0.41		mg/Kg	1	0.0089	0.0056	3/11/2015 16:05	M
Phenanthrene	0.022		mg/Kg	1	0.0089	0.0023	3/11/2015 16:05	M
Pyrene	0.0021	U	mg/Kg	1	0.0089	0.0021	3/11/2015 16:05	M
Nitrobenzene-d5 (S)	74		%	1	46-118		3/11/2015 16:05	
2-Fluorobiphenyl (S)	71		%	1	54-134		3/11/2015 16:05	
p-Terphenyl-d14 (S)	61		%	1	60-143		3/11/2015 16:05	
VOLATILES								
Analysis Desc: 8260B Analysis, Soil	Preparation Method: SW-846 5035							
	Analytical Method: SW-846 8260B							
Benzene	3.8	I	ug/Kg	1	8.6	0.70	3/12/2015 01:08	M
Ethylbenzene	10		ug/Kg	1	8.6	0.54	3/12/2015 01:08	M
Methyl tert-butyl Ether (MTBE)	0.77	U	ug/Kg	1	8.6	0.77	3/12/2015 01:08	M
Toluene	20		ug/Kg	1	8.6	0.67	3/12/2015 01:08	M
Xylene (Total)	110		ug/Kg	1	8.6	0.72	3/12/2015 01:08	M
1,2-Dichloroethane-d4 (S)	93		%	1	80-120		3/12/2015 01:08	

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ANALYTICAL RESULTS

Workorder: M1500982 FCE 1836

Lab ID: **M1500982003** Date Received: 03/10/15 11:22 Matrix: Soil
Sample ID: **UST #3 (2-3)** Date Collected: 03/09/15 16:23
Results for sample M1500982003 are reported on a dry weight basis.
Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Toluene-d8 (S)	92		%	1	81-117		3/12/2015 01:08	
Bromofluorobenzene (S)	90		%	1	74-121		3/12/2015 01:08	
VOLATILES								
Analysis Desc: Percent Solids,SM2540G,Soil	Analytical Method: SM 2540G							
Percent Moisture	10		%	1			3/12/2015 14:46	M

Lab ID: **M1500982004** Date Received: 03/10/15 11:22 Matrix: Soil
Sample ID: **UST #4 (2-3)** Date Collected: 03/09/15 16:20
Results for sample M1500982004 are reported on a dry weight basis.
Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: Flo-Pro Analysis, Soil	Preparation Method: FL-PRO Analytical Method: FL-PRO							
TPH	24		mg/Kg	1	19	11	3/11/2015 21:17	M
o-Terphenyl (S)	90		%	1	62-109		3/11/2015 21:17	
Nonatricontane-C39 (S)	87		%	1	60-118		3/11/2015 21:17	
Analysis Desc: 8270C-SIM Analysis, Soil	Preparation Method: SW-846 3550B Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	0.0032	U	mg/Kg	1	0.0088	0.0032	3/11/2015 16:32	M
2-Methylnaphthalene	0.0042	I	mg/Kg	1	0.0088	0.0032	3/11/2015 16:32	M
Acenaphthene	0.0027	U	mg/Kg	1	0.0088	0.0027	3/11/2015 16:32	M
Acenaphthylene	0.0026	U	mg/Kg	1	0.0088	0.0026	3/11/2015 16:32	M
Anthracene	0.0023	U	mg/Kg	1	0.0088	0.0023	3/11/2015 16:32	M
Benzo[a]anthracene	0.0025	U	mg/Kg	1	0.0088	0.0025	3/11/2015 16:32	M
Benzo[a]pyrene	0.0023	U	mg/Kg	1	0.0088	0.0023	3/11/2015 16:32	M
Benzo[b]fluoranthene	0.0025	U	mg/Kg	1	0.0044	0.0025	3/11/2015 16:32	M
Benzo[g,h,i]perylene	0.0062	U	mg/Kg	1	0.0088	0.0062	3/11/2015 16:32	M
Benzo[k]fluoranthene	0.0022	U	mg/Kg	1	0.0088	0.0022	3/11/2015 16:32	M
Chrysene	0.0025	U	mg/Kg	1	0.0088	0.0025	3/11/2015 16:32	M
Dibenzo[a,h]anthracene	0.0070	U	mg/Kg	1	0.0088	0.0070	3/11/2015 16:32	M
Fluoranthene	0.0022	U	mg/Kg	1	0.0088	0.0022	3/11/2015 16:32	M

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ANALYTICAL RESULTS

Workorder: M1500982 FCE 1836

Lab ID: **M1500982004** Date Received: 03/10/15 11:22 Matrix: Soil

Sample ID: **UST #4 (2-3)** Date Collected: 03/09/15 16:20

Results for sample M1500982004 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Fluorene	0.0028	U	mg/Kg	1	0.0088	0.0028	3/11/2015 16:32	M
Indeno(1,2,3-cd)pyrene	0.0040	U	mg/Kg	1	0.0088	0.0040	3/11/2015 16:32	M
Naphthalene	0.032		mg/Kg	1	0.0088	0.0057	3/11/2015 16:32	M
Phenanthrene	0.0022	U	mg/Kg	1	0.0088	0.0022	3/11/2015 16:32	M
Pyrene	0.0021	U	mg/Kg	1	0.0088	0.0021	3/11/2015 16:32	M
Nitrobenzene-d5 (S)	68		%	1	46-118		3/11/2015 16:32	
2-Fluorobiphenyl (S)	76		%	1	54-134		3/11/2015 16:32	
p-Terphenyl-d14 (S)	94		%	1	60-143		3/11/2015 16:32	
VOLATILES								
Analysis Desc: 8260B Analysis, Soil	Preparation Method: SW-846 5035							
	Analytical Method: SW-846 8260B							
Benzene	8.9		ug/Kg	1	7.7	0.63	3/12/2015 01:39	M
Ethylbenzene	36		ug/Kg	1	7.7	0.49	3/12/2015 01:39	M
Methyl tert-butyl Ether (MTBE)	0.69	U	ug/Kg	1	7.7	0.69	3/12/2015 01:39	M
Toluene	130		ug/Kg	1	7.7	0.60	3/12/2015 01:39	M
Xylene (Total)	730		ug/Kg	1	7.7	0.65	3/12/2015 01:39	M
1,2-Dichloroethane-d4 (S)	92		%	1	80-120		3/12/2015 01:39	
Toluene-d8 (S)	98		%	1	81-117		3/12/2015 01:39	
Bromofluorobenzene (S)	100		%	1	74-121		3/12/2015 01:39	
VOLATILES								
Analysis Desc: Percent Solids,SM2540G,Soil	Analytical Method: SM 2540G							
Percent Moisture	9.3		%	1			3/12/2015 14:46	M

Lab ID: **M1500982005** Date Received: 03/10/15 11:22 Matrix: Soil

Sample ID: **UST #5 (2-3)** Date Collected: 03/09/15 16:15

Results for sample M1500982005 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: Flo-Pro Analysis, Soil	Preparation Method: FL-PRO							
	Analytical Method: FL-PRO							
TPH	240		mg/Kg	1	18	10	3/11/2015 21:46	M

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ANALYTICAL RESULTS

Workorder: M1500982 FCE 1836

Lab ID: **M1500982005** Date Received: 03/10/15 11:22 Matrix: Soil

Sample ID: **UST #5 (2-3)** Date Collected: 03/09/15 16:15

Results for sample M1500982005 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
o-Terphenyl (S)	98		%	1	62-109		3/11/2015 21:46	
Nonatricontane-C39 (S)	83		%	1	60-118		3/11/2015 21:46	
Analysis Desc: 8270C-SIM Analysis, Soil	Preparation Method: SW-846 3550B Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	0.071		mg/Kg	1	0.0084	0.0031	3/11/2015 17:00	M
2-Methylnaphthalene	0.10		mg/Kg	1	0.0084	0.0031	3/11/2015 17:00	M
Acenaphthene	0.0026	U	mg/Kg	1	0.0084	0.0026	3/11/2015 17:00	M
Acenaphthylene	0.0064	I	mg/Kg	1	0.0084	0.0025	3/11/2015 17:00	M
Anthracene	0.0022	U	mg/Kg	1	0.0084	0.0022	3/11/2015 17:00	M
Benzo[a]anthracene	0.0023	U	mg/Kg	1	0.0084	0.0023	3/11/2015 17:00	M
Benzo[a]pyrene	0.0022	U	mg/Kg	1	0.0084	0.0022	3/11/2015 17:00	M
Benzo[b]fluoranthene	0.0024	U	mg/Kg	1	0.0042	0.0024	3/11/2015 17:00	M
Benzo[g,h,i]perylene	0.0059	U	mg/Kg	1	0.0084	0.0059	3/11/2015 17:00	M
Benzo[k]fluoranthene	0.0021	U	mg/Kg	1	0.0084	0.0021	3/11/2015 17:00	M
Chrysene	0.0023	U	mg/Kg	1	0.0084	0.0023	3/11/2015 17:00	M
Dibenzo[a,h]anthracene	0.0067	U	mg/Kg	1	0.0084	0.0067	3/11/2015 17:00	M
Fluoranthene	0.0026	I	mg/Kg	1	0.0084	0.0021	3/11/2015 17:00	M
Fluorene	0.0026	U	mg/Kg	1	0.0084	0.0026	3/11/2015 17:00	M
Indeno(1,2,3-cd)pyrene	0.0039	U	mg/Kg	1	0.0084	0.0039	3/11/2015 17:00	M
Naphthalene	0.030		mg/Kg	1	0.0084	0.0054	3/11/2015 17:00	M
Phenanthrene	0.027		mg/Kg	1	0.0084	0.0021	3/11/2015 17:00	M
Pyrene	0.033		mg/Kg	1	0.0084	0.0020	3/11/2015 17:00	M
Nitrobenzene-d5 (S)	49		%	1	46-118		3/11/2015 17:00	
2-Fluorobiphenyl (S)	58		%	1	54-134		3/11/2015 17:00	
p-Terphenyl-d14 (S)	80		%	1	60-143		3/11/2015 17:00	
VOLATILES								
Analysis Desc: 8260B Analysis, Soil	Preparation Method: SW-846 5035 Analytical Method: SW-846 8260B							
Benzene	0.60	U	ug/Kg	1	7.3	0.60	3/12/2015 02:10	M
Ethylbenzene	2.1	I	ug/Kg	1	7.3	0.46	3/12/2015 02:10	M
Methyl tert-butyl Ether (MTBE)	0.66	U	ug/Kg	1	7.3	0.66	3/12/2015 02:10	M
Toluene	0.57	U	ug/Kg	1	7.3	0.57	3/12/2015 02:10	M
Xylene (Total)	28		ug/Kg	1	7.3	0.61	3/12/2015 02:10	M
1,2-Dichloroethane-d4 (S)	96		%	1	80-120		3/12/2015 02:10	
Toluene-d8 (S)	92		%	1	81-117		3/12/2015 02:10	
Bromofluorobenzene (S)	90		%	1	74-121		3/12/2015 02:10	

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ANALYTICAL RESULTS

Workorder: M1500982 FCE 1836

Lab ID: **M1500982005** Date Received: 03/10/15 11:22 Matrix: Soil

Sample ID: **UST #5 (2-3)** Date Collected: 03/09/15 16:15

Results for sample M1500982005 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: Percent Solids,SM2540G,Soil	Analytical Method: SM 2540G							
Percent Moisture	4.5		%	1			3/12/2015 14:46	M

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ANALYTICAL RESULTS QUALIFIERS

Workorder: M1500982 FCE 1836

PARAMETER QUALIFIERS

U 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.

LAB QUALIFIERS

M DOH Certification #E82535(AEL-M)(FL NELAC Certification)

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QUALITY CONTROL DATA

Workorder: M1500982 FCE 1836

QC Batch: EXTm/1169 Analysis Method: FL-PRO
QC Batch Method: FL-PRO Prepared: 03/11/2015 09:00
Associated Lab Samples: M1500982001, M1500982002, M1500982003, M1500982004, M1500982005

METHOD BLANK: 1698603

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
TPH	mg/Kg	9.8	9.8	U
o-Terphenyl (S)	%	104	62-109	
Nonatricontane-C39 (S)	%	94	60-118	

QC Batch: EXTm/1171 Analysis Method: SW-846 8270C (SIM)
QC Batch Method: SW-846 3550B Prepared: 03/11/2015 09:00
Associated Lab Samples: M1500982001, M1500982002, M1500982003, M1500982004, M1500982005

METHOD BLANK: 1698637

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
Naphthalene	mg/Kg	0.0052	0.0052	U
2-Methylnaphthalene	mg/Kg	0.0029	0.0029	U
1-Methylnaphthalene	mg/Kg	0.0029	0.0029	U
Acenaphthylene	mg/Kg	0.0024	0.0024	U
Acenaphthene	mg/Kg	0.0025	0.0025	U
Fluorene	mg/Kg	0.0025	0.0025	U
Phenanthrene	mg/Kg	0.0020	0.0020	U
Anthracene	mg/Kg	0.0021	0.0021	U
Fluoranthene	mg/Kg	0.0020	0.0020	U
Pyrene	mg/Kg	0.0019	0.0019	U
Benzo[a]anthracene	mg/Kg	0.0022	0.0022	U
Chrysene	mg/Kg	0.0022	0.0022	U
Benzo[b]fluoranthene	mg/Kg	0.0023	0.0023	U
Benzo[k]fluoranthene	mg/Kg	0.0020	0.0020	U
Benzo[a]pyrene	mg/Kg	0.0021	0.0021	U
Indeno(1,2,3-cd)pyrene	mg/Kg	0.0037	0.0037	U
Dibenzo[a,h]anthracene	mg/Kg	0.0064	0.0064	U
Benzo[g,h,i]perylene	mg/Kg	0.0056	0.0056	U
Nitrobenzene-d5 (S)	%	52	46-118	
2-Fluorobiphenyl (S)	%	60	54-134	
p-Terphenyl-d14 (S)	%	73	60-143	

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CERTIFICATE OF ANALYSIS

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Advanced Environmental Laboratories, Inc.

Advanced Environmental Laboratories, Inc
10200 USA Today Way Miramar, FL 33025
Payments: P.O. Box 551580 Jacksonville, FL 32255-1580
Phone: (954)889-2268
Fax: (954)889-2281

QUALITY CONTROL DATA

Workorder: M1500982 FCE 1836

QC Batch:	MSVm/1166	Analysis Method:	SW-846 8260B
QC Batch Method:	SW-846 5035	Prepared:	03/11/2015 00:00

Associated Lab Samples: M1500982001, M1500982002, M1500982003, M1500982004, M1500982005

METHOD BLANK: 1699634

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Methyl tert-butyl Ether (MTBE)	ug/Kg	0.49	0.49	U
Benzene	ug/Kg	0.44	0.44	U
Toluene	ug/Kg	0.42	0.42	U
Ethylbenzene	ug/Kg	0.34	0.34	U
Xylene (Total)	ug/Kg	0.45	0.45	U
1,2-Dichloroethane-d4 (S)	%	94	80-120	
Toluene-d8 (S)	%	93	81-117	
Bromofluorobenzene (S)	%	101	74-121	

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3004.1.0.0

Advanced Environmental Laboratories, Inc.

Advanced Environmental Laboratories, Inc
10200 USA Today Way Miramar, FL 33025
Payments: P.O. Box 551580 Jacksonville, FL 32255-1580
Phone: (954)889-2288
Fax: (954)889-2281

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: M1500982 FCE 1836

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
M1500982001	UST #1 (2-3)	FL-PRO	EXTm/1169	FL-PRO	GCSm/1109
M1500982002	UST #2 (2-3)	FL-PRO	EXTm/1169	FL-PRO	GCSm/1109
M1500982003	UST #3 (2-3)	FL-PRO	EXTm/1169	FL-PRO	GCSm/1109
M1500982004	UST #4 (2-3)	FL-PRO	EXTm/1169	FL-PRO	GCSm/1109
M1500982005	UST #5 (2-3)	FL-PRO	EXTm/1169	FL-PRO	GCSm/1109
M1500982001	UST #1 (2-3)	SW-846 3550B	EXTm/1171	SW-846 8270C (SIM)	MSSm/1061
M1500982002	UST #2 (2-3)	SW-846 3550B	EXTm/1171	SW-846 8270C (SIM)	MSSm/1061
M1500982003	UST #3 (2-3)	SW-846 3550B	EXTm/1171	SW-846 8270C (SIM)	MSSm/1061
M1500982004	UST #4 (2-3)	SW-846 3550B	EXTm/1171	SW-846 8270C (SIM)	MSSm/1061
M1500982005	UST #5 (2-3)	SW-846 3550B	EXTm/1171	SW-846 8270C (SIM)	MSSm/1061
M1500982001	UST #1 (2-3)	SW-846 5035	MSVm/1166	SW-846 8260B	MSVm/1167
M1500982002	UST #2 (2-3)	SW-846 5035	MSVm/1166	SW-846 8260B	MSVm/1167
M1500982003	UST #3 (2-3)	SW-846 5035	MSVm/1166	SW-846 8260B	MSVm/1167
M1500982004	UST #4 (2-3)	SW-846 5035	MSVm/1166	SW-846 8260B	MSVm/1167
M1500982005	UST #5 (2-3)	SW-846 5035	MSVm/1166	SW-846 8260B	MSVm/1167
M1500982001	UST #1 (2-3)			SM 2540G	WCAm/1452
M1500982002	UST #2 (2-3)			SM 2540G	WCAm/1452
M1500982003	UST #3 (2-3)			SM 2540G	WCAm/1452
M1500982004	UST #4 (2-3)			SM 2540G	WCAm/1452
M1500982005	UST #5 (2-3)			SM 2540G	WCAm/1452

DRAFT

CERTIFICATE OF ANALYSIS

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Advanced Environmental Laboratories, Inc.

☐ Altamonte Springs: 528 S. Northlake Blvd
☐ Gainesville: 4965 SW 41st Blvd. • Gainesville
☐ Jacksonville: 6681 Southpoint Pkwy. • Jacks
☒ Miramar: 10200 USA Today Way • Miramar, Fl
☐ Tallahassee: 2639 North Monroe Street, Suit
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL

407.937.1597

M1500982

Client Name: Ecotech	Project Name: FCE 1836
Address: 3260 NW 23 Ave Suite 1400 Pompano FL 33069	P.O. Number/Project Number: 0515027
	Project Location:
Phone: 954-973-7792	FCEP Facility No:
FAX: 954 973-7795	Project Name and Address: FCE 1836 Prep Samples for HOLD
Contact: I. Donaldson	
Sampled By: I. Donaldson	
Turn Around Time: ☒ STANDARD ☐ RUSH	Special Instructions: non-program rates ☐ ADaPT ☐ EQuIS
Page 1 of 1	

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	BOTTLE SIZE & TYPE: 137EX/MTBE	PAH	TRPH/FLPRO								LABORATORY I.D. NUMBER
	UST #1 (2-3')	comp	3/9/15	1630	SO	5		X	X	X	Hold (ID)							001
	UST #2 (2-3')	comp	↑	1625	SO	5		X	X	X	Hold (ID)							002
	UST #3 (2-3')	comp		1623	SO	5		X	X	X	Hold (ID)							003
	UST #4 (2-3')	comp	↓	1620	SO	5		X	X	X	Hold (ID)							004
	UST #5 (2-3')	comp	3/9/15	1615	SO	5		X	X	X	Hold (ID)							005

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge

Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☒ Yes ☐ No ☒ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received 3.4 (in degrees celcius)

DCN: AD-051 Form last revised 08/18/2014 Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	I. Donaldson	3/10/15	1122	[signature]	3/10/15	1122
2						
3						
4						

FOR DRINKING WATER USE:
(When PWS information not otherwise supplied) PWS ID: _____
Contact Person: _____ Phone: _____
Supplier of Water: _____
Site-Address: _____

LEVEL

BROWARD ENVIRONMENTAL PROTECTION DEPARTMENT
2007

Discharge Report Form

07 SEP 17 AM 10:24

PLEASE PRINT OR TYPE

DRP Form # 62-761.900(1)
Form Title Discharge Report Form
Effective Date: July 11, 1998

Instructions are on the reverse side. Please complete all **applicable** blanks

1. **Facility ID Number** (if registered): 06/9807767 2. **Date of form completion:** 9/14/07

3. **General information**
Facility name or responsible party (if applicable): Shell Regency Lakes
Facility Owner or Operator, or Discharger: Motiva Enterprises LLC
Contact Person: Annette Dokken Telephone Number: (561) 433-2052 County: Broward
Facility or Discharger Mailing Address: 7765 Lake Worth Road, #319, Lake Worth, FL 33467
Location of Discharge (street address): 6330 State Road 7, Coconut Creek, FL 33073
Latitude and Longitude of Discharge (if known) 26:18:41.6355 N, 80:12:05.7081 W

4. **Date of receipt of test results or discovery of confirmed discharge:** 9/12/07 month/day/year

5. **Estimated number of gallons discharged:** Unknown

6. **Discharge affected:** [ ] Air [ ] Soil [✓] Groundwater [ ] Drinking water well(s) [ ] Shoreline [ ] Surface water (water body name)

7. **Method of discovery** (check all that apply)

[ ] Liquid detector (automatic or manual)	[ ] Internal inspection	[ ] Closure/Closure Assessment
[ ] Vapor detector (automatic or manual)	[ ] Inventory control	[✓] Groundwater analytical samples
[ ] Tightness test	[ ] Monitoring wells	[ ] Soil analytical tests or samples
[ ] Pressure test	[ ] Automatic tank gauging	[ ] Visual observation
[ ] Statistical Inventory Reconciliation	[ ] Manual tank gauging	[ ] Other

8. **Type of regulated substance discharged:** (check one)

[ ] Unknown	[ ] Used/waste oil	[ ] Jet fuel	[ ] Heating oil	[ ] New/lube oil
[✓] Gasoline	[ ] Aviation gas	[ ] Diesel	[ ] Kerosene	[ ] Mineral acid

[ ] Hazardous substance - includes CERCLA substances from USTs above reportable quantities, pesticides, ammonia, chlorine, and derivatives (write in name or Chemical Abstract Service (CAS) number)
[ ] Other

9. **Source of Discharge:** (check all that apply)

[ ] Dispensing system	[ ] Pipe	[ ] Barge	[ ] Pipeline	[ ] Vehicle
[ ] Tank	[ ] Fitting	[ ] Tanker ship	[ ] Railroad tankcar	[ ] Airplane
[✓] Unknown	[ ] Valve failure	[ ] Other Vessel	[ ] Tank truck	[ ] Drum

[ ] Other

10. **Cause of the discharge:** (check all that apply)

[ ] Loose connection	[ ] Puncture	[ ] Spill	[ ] Collision	[ ] Corrosion
[ ] Fire/explosion	[ ] Overfill	[ ] Human error	[ ] Vehicle Accident	[ ] Installation failure

[✓] Other Unknown

11. **Actions taken in response to the discharge:**

12. **Comments:** A Site Assessment will be initiated per Chapter 62-770, FAC.

13. **Agencies notified** (as applicable):

[ ] State Warning Point *1-800 320-0519*	[ ] National Response Center *1-800-424-8802*	[ ] Florida Marine Patrol *(800) 342-5367*	[ ] Fire Department.	[ ] DEP (district/person) [✓] County Tanks Program

14. **To the best of my knowledge and belief, all information submitted on this form is true, accurate and complete.**

Craig Hurst, Authorized Rep. GES, Inc.
Printed Name of Owner, Operator or Authorized Representative,

Signature of Owner, Operator or Authorized Representative,

DRAFT

BROWARD ENVIRONMENTAL PROTECTION DEPARTMENT
2007

Discharge Report Form

07 SEP 17 AM 10:24

PLEASE PRINT OR TYPE

DRP Form # 62-761.900(1)
Form Title Discharge Report Form
Effective Date: July 11, 1998

Instructions are on the reverse side. Please complete all **applicable** blanks

1. **Facility ID Number** (if registered): 06/9807767 2. **Date of form completion:** 9/14/07

3. **General information**
Facility name or responsible party (if applicable): Shell Regency Lakes
Facility Owner or Operator, or Discharger: Motiva Enterprises LLC
Contact Person: Annette Dokken Telephone Number: (561) 433-2052 County: Broward
Facility or Discharger Mailing Address: 7765 Lake Worth Road, #319, Lake Worth, FL 33467
Location of Discharge (street address): 6330 State Road 7, Coconut Creek, FL 33073
Latitude and Longitude of Discharge (if known) 26:18:41.6355 N, 80:12:05.7081 W

4. **Date of receipt of test results or discovery of confirmed discharge:** 9/12/07 month/day/year

5. **Estimated number of gallons discharged:** Unknown

6. **Discharge affected:** [ ] Air [ ] Soil [✓] Groundwater [ ] Drinking water well(s) [ ] Shoreline [ ] Surface water (water body name)

7. **Method of discovery** (check all that apply)

[ ] Liquid detector (automatic or manual)	[ ] Internal inspection	[ ] Closure/Closure Assessment
[ ] Vapor detector (automatic or manual)	[ ] Inventory control	[✓] Groundwater analytical samples
[ ] Tightness test	[ ] Monitoring wells	[ ] Soil analytical tests or samples
[ ] Pressure test	[ ] Automatic tank gauging	[ ] Visual observation
[ ] Statistical Inventory Reconciliation	[ ] Manual tank gauging	[ ] Other

8. **Type of regulated substance discharged:** (check one)

[ ] Unknown	[ ] Used/waste oil	[ ] Jet fuel	[ ] Heating oil	[ ] New/lube oil
[✓] Gasoline	[ ] Aviation gas	[ ] Diesel	[ ] Kerosene	[ ] Mineral acid

[ ] Hazardous substance - includes CERCLA substances from USTs above reportable quantities, pesticides, ammonia, chlorine, and derivatives (write in name or Chemical Abstract Service (CAS) number)
[ ] Other

9. **Source of Discharge:** (check all that apply)

[ ] Dispensing system	[ ] Pipe	[ ] Barge	[ ] Pipeline	[ ] Vehicle
[ ] Tank	[ ] Fitting	[ ] Tanker ship	[ ] Railroad tankcar	[ ] Airplane
[✓] Unknown	[ ] Valve failure	[ ] Other Vessel	[ ] Tank truck	[ ] Drum

[ ] Other

10. **Cause of the discharge:** (check all that apply)

[ ] Loose connection	[ ] Puncture	[ ] Spill	[ ] Collision	[ ] Corrosion
[ ] Fire/explosion	[ ] Overfill	[ ] Human error	[ ] Vehicle Accident	[ ] Installation failure

[✓] Other Unknown

11. **Actions taken in response to the discharge:**

12. **Comments:** A Site Assessment will be initiated per Chapter 62-770, FAC.

13. **Agencies notified** (as applicable):

[ ] State Warning Point *1-800 320-0519*	[ ] National Response Center *1-800-424-8802*	[ ] Florida Marine Patrol *(800) 342-5367*	[ ] Fire Department.	[ ] DEP (district/person) [✓] County Tanks Program

14. **To the best of my knowledge and belief, all information submitted on this form is true, accurate and complete.**

Craig Hurst, Authorized Rep. GES, Inc.
Printed Name of Owner, Operator or Authorized Representative,

Signature of Owner, Operator or Authorized Representative,

DRAFT

Florida Department of Environmental Protection
Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

October 17, 2008

CERTIFIED MAIL #7006 2760 0001 1766 6573
RETURN RECEIPT REQUESTED

Ms. Annette Dokken
Motiva Enterprises, LLC
7765 Lake Worth Drive, Suite 319
Lake Worth, FL 33467

Subject: Site Assessment Report and Natural Attenuation Monitoring Plan Approval
Shell Regency Lakes
6330 North State Road 7
Coconut Creek, Broward County
FDEP Facility ID# 069807767
Discharge Date: September 12, 2007 (Non-program)

Dear Ms. Dokken:

The Broward County Pollution Prevention, Remediation and Air Quality Division (Division), on behalf of the Florida Department of Environmental Protection (Department), has reviewed the Site Assessment Report (SAR) dated June 19, 2008 (received June 23, 2008), Site Assessment Report Addendum (SARA) and Natural Attenuation Monitoring (NAM) Plan dated September 17, 2008 (received September 19, 2008) submitted for the petroleum product discharge referenced above. Pursuant to Paragraph 62-770.600(9)(a) and 62-770.690(5)(a), Florida Administrative Code (F.A.C.), the Department approves the SAR/SARA/NAM Plan. Pursuant to Subsection 62-770.690(8), F.A.C., you are required to complete the monitoring program outlined below. The first sampling event must be performed within 60 days of receipt of this Natural Attenuation Monitoring Plan Approval Order. Water-level measurements must be made immediately prior to each sampling event. The analytical results (laboratory report), chain of custody record form, cumulative summary tables as required by Subparagraph 62-770.600(8)(a)25., F.A.C. (updated as applicable), site map(s) that illustrate the most recent analytical results, and the water-level elevation information (cumulative summary table and most recent flow interpretation map), must be submitted to the Division within 60 days of sample collection.

The monitoring wells to be sampled, the sampling parameters, and the sampling frequency are as follows:

Initials _____
Date _____

Monitoring Wells	Contaminants of Concern	Frequency
MW-1, MW-2, MW-3, MW-4, MW-5, MW-8 and DW-9	BTEX, MTBE and PAHs	Quarterly

The approved Remedial Action by Natural Attenuation monitoring period is five years.

If concentrations of contaminants of concern in any of the designated wells increase above the action levels listed below, the well or wells must be resampled no later than 30 days after the initial positive results are known. If the results of the resampling confirm the initial sampling results, then the monitoring report referenced in Paragraph 62-770.690(8)(d), F.A.C., must be signed and sealed by an appropriate registered professional pursuant to Rule 62-770.490, F.A.C., and must include a recommendation as described in Paragraph 62-770.690(8)(e), F.A.C.

Source wells:

MW-5 and DW-9: 100 µg/L Benzene; 400 µg/L Toluene; 300 µg/L Ethylbenzene; 200 µg/L Total Xylenes; 200 µg/L MTBE; 140 µg/L Naphthalene and Natural Attenuation Default Concentrations as specified in Table V of Chapter 62-777, F.A.C. for all other contaminants of concern.

Perimeter wells (temporary point of compliance):

MW-1, MW-2, MW-3, MW-4 and MW-8: 1 µg/L Benzene; 40 µg/L Toluene; 30 µg/L Ethylbenzene; 20 µg/L Total Xylenes; 20 µg/L MTBE; 14 µg/L Naphthalene and Groundwater Cleanup Target Levels as specified in Table I of Chapter 62-777, F.A.C. for all other contaminants of concern.

If the applicable No Further Action criteria of Rule 62-770.680, F.A.C., are met for two consecutive sampling events at the end of the monitoring period (for at least the last two sampling events), a Site Rehabilitation Completion Report with a No Further Action Proposal, that summarizes the monitoring program and contains documentation to support the opinion that the cleanup objectives have been achieved, must be submitted to the Division as required in Subsection 62-770.690(10), F.A.C. If the applicable No Further Action criteria of Rule 62-770.680, F.A.C., are not met following one year of monitoring, then the monitoring report must include a recommendation as described in Paragraph 62-770.690(8)(f), F.A.C.

Legal Issues

The Department's Order shall become final unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, Florida Statutes (F.S.), within 21 days of receipt of this Order. The procedures for petitioning for an administrative hearing are set forth below.

DRAFT

Persons affected by this Order have the following options:

(A) If you choose to accept the Department's decision regarding the SAR/SARA/NAM Plan you do not have to do anything. This Order is final and effective as of the date on the top of the first page of this Order.

(B) If you choose to challenge the decision, you may do the following:

(1) File a request for an extension of time to file a petition for an administrative hearing with the Department's Agency Clerk in the Office of General Counsel within 21 days of receipt of this Order; such a request should be made if you wish to meet with the Department in an attempt to informally resolve any disputes without first filing a petition for an administrative hearing; or

(2) File a petition for an administrative hearing with the Department's Agency Clerk in the Office of General Counsel within 21 days of receipt of this Order.

Please be advised that mediation of this decision pursuant to Section 120.573, F.S., is not available.

How to Request an Extension of Time to File a Petition for an Administrative Hearing

For good cause shown, pursuant to Subsection 62-110.106(4), F.A.C., the Department may grant a request for an extension of time to file a petition for an administrative hearing. Such a request must be filed (received) by the Department's Agency Clerk in the Office of General Counsel at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000, within 21 days of receipt of this Order. Petitioner, if different from Motiva Enterprises, LLC, shall mail a copy of the request to Motiva Enterprises, LLC at the time of filing. Timely filing a request for an extension of time tolls the time period within which a petition for an administrative hearing must be made.

How to File a Petition for an Administrative Hearing

A person whose substantial interests are affected by this Order may petition for an administrative hearing under Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) by the Department's Agency Clerk in the Office of General Counsel at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000, within 21 days of receipt of this Order. Petitioner, if different from Motiva Enterprises, LLC, shall mail a copy of the petition to Motiva Enterprises, LLC at the time of filing. Failure to file a petition within this time

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period shall waive the right of anyone who may request an administrative hearing under Sections 120.569 and 120.57, F.S.

Pursuant to Subsection 120.569(2), F.S. and Rule 28-106.201, F.A.C., a petition for an administrative hearing shall contain the following information:

(a) The name, address, and telephone number of each petitioner; the name, address, and telephone number of the petitioner's representative, if any; the facility owner's name and address, if different from the petitioner; the FDEP facility number, and the name and address of the facility;
(b) A statement of when and how each petitioner received notice of the Department's action or proposed action;
(c) An explanation of how each petitioner's substantial interests are or will be affected by the Department's action or proposed action;
(d) A statement of the disputed issues of material fact, or a statement that there are no disputed facts;
(e) A statement of the ultimate facts alleged, including a statement of the specific facts the petitioner contends warrant reversal or modification of the Department's action or proposed action;
(f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the Department's action or proposed action; and
(g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the Department to take with respect to the Department's action or proposed action.

This Order is final and effective as of the date on the top of the first page of this Order. Timely filing a petition for an administrative hearing postpones the date this Order takes effect until the Department issues either a final order pursuant to an administrative hearing or an Order Responding to Supplemental Information provided to the Department pursuant to meetings with the Department.

Judicial Review

Any party to this Order has the right to seek judicial review of it under Section 120.68, F.S., by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the Department's Agency Clerk in the Office of General Counsel at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within 30 days after this Order is filed with the Department's clerk (see below).

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Questions

Any questions regarding the Division's review of your SAR/SARA/NAM Plan should be directed to H. Ray Ledbetter, Ph.D. at (954) 519-1445. Questions regarding legal issues should be referred to the Department's Office of General Counsel at (850) 245-2242. Contact with any of the above does not constitute a petition for administrative hearing or request for an extension of time to file a petition for administrative hearing.

The FDEP Facility Number for this facility is 069807767. Please use this identification on all future correspondence with the Department or Division.

Sincerely,

Michael E. Ashey, Chief
Bureau of Petroleum Storage Systems

MEA/hrl

cc: Mr. H. Ray Ledbetter, Ph.D., Broward County
Mr. Ted Watabe, Groundwater & Environmental Services, Inc., 6500 NW 12th Avenue, Suite 109, Fort Lauderdale, FL 33309
File

FILING AND ACKNOWLEDGMENT
FILED, on this date, pursuant to §120.52 Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Nancy C Dan — Clerk (or Deputy Clerk)

10-17-08 — Date

DRAFT

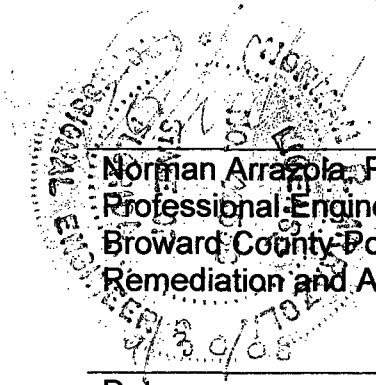
P.E. CERTIFICATION

Site Assessment Report, Site Assessment Report Addendum and Natural Attenuation Monitoring Plan for Shell Regency Lakes, located at 6330 N. State Road 7, Coconut Creek, Broward County, Florida, FDEP Facility ID No. 069807767.

I hereby certify that in my professional judgement, the components of this Site Assessment Report, Site Assessment Report Addendum, and Natural Attenuation Monitoring Plan prepared for the September 12, 2007 petroleum product discharge satisfy the requirements set forth in Chapter 62-770.690, Florida Administrative Code, for monitored natural attenuation.

____ I personally completed this review.

__X__ This review was conducted by H. Ray Ledbetter, Ph.D. working under my direct supervision.



Norman Arrazola, P.E.
Professional Engineer # 46538
Broward County Pollution Prevention,
Remediation and Air Quality Division

Date

DRAFT

Florida Department of Environmental Protection
Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

April 1, 2010

CERTIFIED MAIL #7001 0320 0004 9325 0431
RETURN RECEIPT REQUESTED

Ms. Annette Dokken
Motiva Enterprises, LLC
7765 Lake Worth Road, Suite 319
Lake Worth, FL 33467

Subject: Site Rehabilitation Completion Order
Shell Regency Lakes
6330 North State Road 7
Coconut Creek, Broward County
FDEP Facility ID# 069807767
Discharge Date: September 12, 2007 (Non-program)

Dear Ms. Dokken:

The Broward County Pollution Prevention, Remediation and Air Quality Division (Division), on behalf of the Florida Department of Environmental Protection (Department), has reviewed the Site Rehabilitation Completion Report (SRCR) and No Further Action Proposal (NFAP) dated February 3, 2010 (received February 4, 2010), and the Monitoring Well Abandonment Report dated March 5, 2010 (received March 9, 2010), prepared and submitted by Groundwater & Environmental Services, Inc. for the petroleum product discharge referenced above. Documentation submitted with the SRCR/NFAP confirms that criteria set forth in Subsection 62-770.680(1), Florida Administrative Code (F.A.C.), have been met. Please refer to the attached maps of the source property and analytical summary tables. The SRCR/NFAP is hereby incorporated by reference in this Site Rehabilitation Completion Order (Order). Therefore, you are released from any further obligation to conduct site rehabilitation at the facility for petroleum product contamination associated with the discharge referenced above, except as set forth below.

In the event concentrations of petroleum products' contaminants of concern increase above the levels approved in this Order, or if a subsequent discharge of petroleum or petroleum product occurs at the facility, the Department may require site rehabilitation to reduce concentrations of petroleum products' contaminants of concern to the levels approved in the SRCR/NFAP or otherwise allowed by Chapter 62-770, F.A.C.

Legal Issues

The Department's Order shall become final unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, Florida Statutes (F.S.), within 21 days of receipt of this Order. The procedures for petitioning for an administrative hearing are set forth below.

DRAFT

Persons affected by this Order have the following options:

(A) If you choose to accept the Department's decision regarding the SRCR/NFAP you do not have to do anything. This Order is final and effective on the date filed with the Clerk of the Department, which is indicated on the last page of this Order.

(B) If you choose to challenge the decision, you may do the following:

(1) File a request for an extension of time to file a petition for an administrative hearing with the Department's Agency Clerk in the Office of General Counsel within 21 days of receipt of this Order; such a request should be made if you wish to meet with the Department in an attempt to informally resolve any disputes without first filing a petition for an administrative hearing; or

(2) File a petition for an administrative hearing with the Department's Agency Clerk in the Office of General Counsel within 21 days of receipt of this Order.

Please be advised that mediation of this decision pursuant to Section 120.573, F.S., is not available.

How to Request an Extension of Time to File a Petition for an Administrative Hearing

For good cause shown, pursuant to Subsection 62-110.106(4), F.A.C., the Department may grant a request for an extension of time to file a petition for an administrative hearing. Such a request must be filed (received) by the Department's Agency Clerk in the Office of General Counsel at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000, within 21 days of receipt of this Order. Petitioner, if different from Motiva Enterprises, LLC, shall mail a copy of the request to Motiva Enterprises, LLC at the time of filing. Timely filing a request for an extension of time tolls the time period within which a petition for an administrative hearing must be made.

How to File a Petition for an Administrative Hearing

A person whose substantial interests are affected by this Order may petition for an administrative hearing under Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) by the Department's Agency Clerk in the Office of General Counsel at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000, within 21 days of receipt of this Order. Petitioner, if different from Motiva Enterprises, LLC, shall mail a copy of the petition to Motiva Enterprises, LLC at the time of filing. Failure to file a petition within this time period shall waive the right of anyone who may request an administrative hearing under Sections 120.569 and 120.57, F.S.

Pursuant to Subsection 120.569(2), F.S. and Rule 28-106.201, F.A.C., a petition for an administrative hearing shall contain the following information:

(a) The name, address, and telephone number of each petitioner; the name, address, and telephone number of the petitioner's representative, if any; the facility owner's

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name and address, if different from the petitioner; the FDEP facility number, and the name and address of the facility;

(b) A statement of when and how each petitioner received notice of the Department's action or proposed action;

(c) An explanation of how each petitioner's substantial interests are or will be affected by the Department's action or proposed action;

(d) A statement of the disputed issues of material fact, or a statement that there are no disputed facts;

(e) A statement of the ultimate facts alleged, including a statement of the specific facts the petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the Department's action or proposed action; and

(g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the Department to take with respect to the Department's action or proposed action.

This Order is final and effective on the date filed with the Clerk of the Department, which is indicated on the last page of this Order. Timely filing a petition for an administrative hearing postpones the date this Order takes effect until the Department issues either a final order pursuant to an administrative hearing or an Order Responding to Supplemental Information provided to the Department pursuant to meetings with the Department.

Judicial Review

Any party to this Order has the right to seek judicial review of it under Section 120.68, F.S., by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the Department's Agency Clerk in the Office of General Counsel at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within 30 days after this Order is filed with the Department's clerk (see below).

Questions

Any questions regarding the Division's review of your SRCR/NFAP should be directed to Matthew M. Theisen, P.G. at (954) 519-0323. Questions regarding legal issues should be referred to the Department's Office of General Counsel at (850) 245-2242. Contact with any of the above does not constitute a petition for an administrative hearing or a request for an extension of time to file a petition for an administrative hearing.

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The FDEP Facility Number for this facility is 069807767. Please use this identification on all future correspondence with the Department or the Division.

Sincerely,

Michael E. Ashey, Chief
Bureau of Petroleum Storage Systems

MEA/mmt
Attachments

ec: Stephen E. Brown, FDEP Southeast District Office – stephen.e.brown@dep.state.fl.us
Lorenzo Fernandez, P.E., Broward County – lfernandez@broward.org
Ted Watabe, Groundwater & Environmental Services, Inc. – twatabe@gesonline.com
cc: File

FILING AND ACKNOWLEDGMENT
FILED, on this date, pursuant to §120.52 Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Clerk
(or Deputy Clerk)

4/5/10
Date

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P.G. CERTIFICATION

Site Rehabilitation Completion Report / No Further Action Proposal dated February 3, 2010 (received February 4, 2010), for Shell Regency Lakes located at 6330 North State Road 7, Coconut Creek, Broward County, Florida 33073; FDEP Facility ID #069807767.

I hereby certify that in my professional judgment, the components of this Site Rehabilitation Completion Report / No Further Action Proposal prepared for the September 12, 2007 petroleum product discharge discovered at the above-referenced facility satisfy the requirements set forth in Chapter 62-770, Florida Administrative Code (FAC), and that the conclusions in this report provide reasonable assurances that the site rehabilitation objectives stated in Chapter 62-770, FAC, have been met.

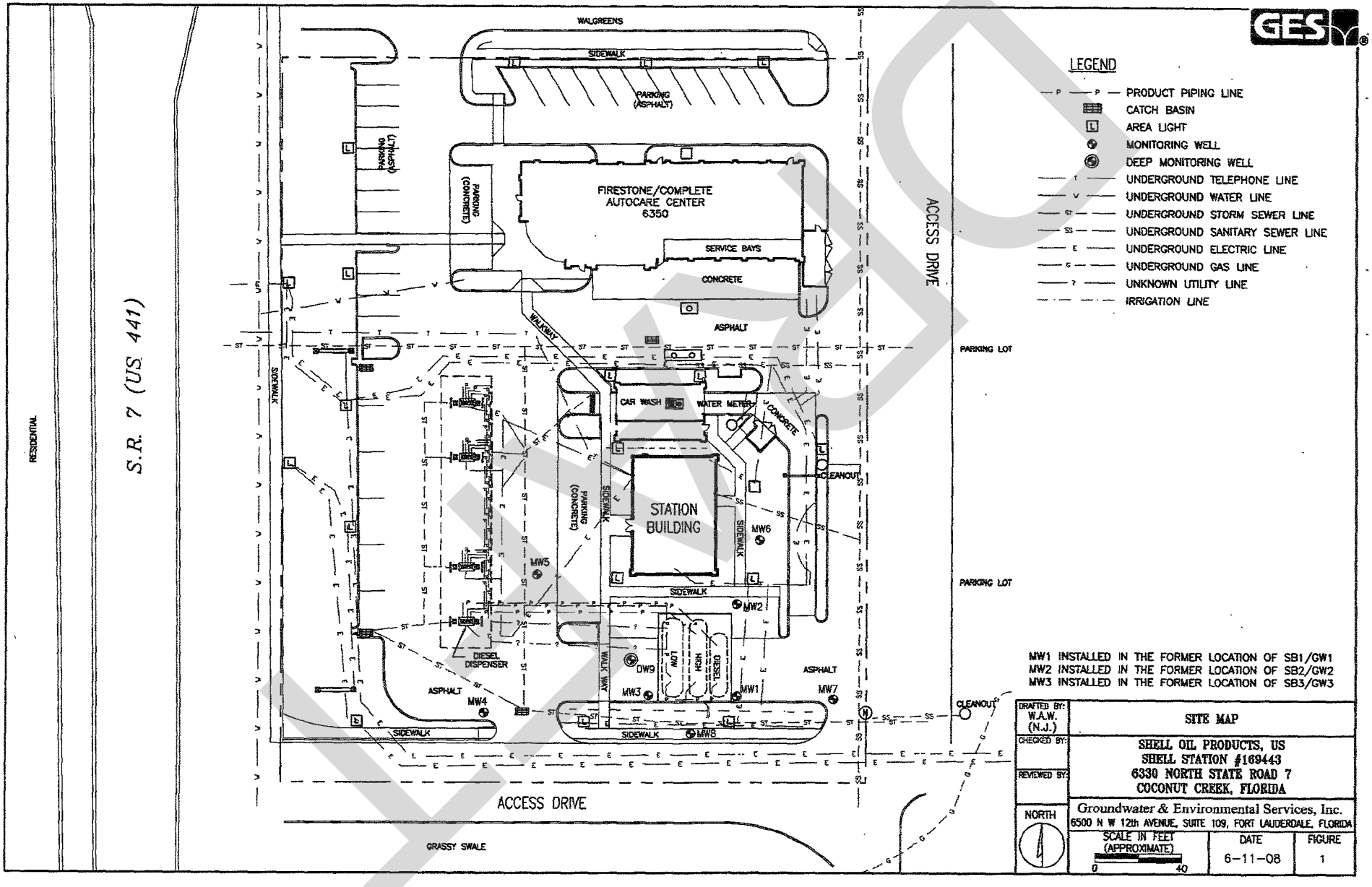
_X_ I personally completed this review.

___ This review was conducted by _____ working under my direct supervision.

Matthew M. Theisen, P.G.
Florida Professional Geologist # 2378
Broward County Pollution Prevention, Remediation & Air Quality Division

03-09-2010
Date

DRAFT



DRAFTED BY: W.A.W. (N.J.)	SITE MAP
CHECKED BY:	SHELL OIL PRODUCTS, US SHELL STATION #169443 6330 NORTH STATE ROAD 7 COCONUT CREEK, FLORIDA
REVIEWED BY:	Groundwater & Environmental Services, Inc. 6500 N W 12th AVENUE, SUITE 109, FORT LAUDERDALE, FLORIDA
	DATE: 6-11-08
	FIGURE: 1

M:\Graphics\02600-Fort_Lauderdale\Shell\169443 Coconut Grove\169443 coconut creek SM.dwg, 6/11/2008 5:41:17 PM, WWaterland

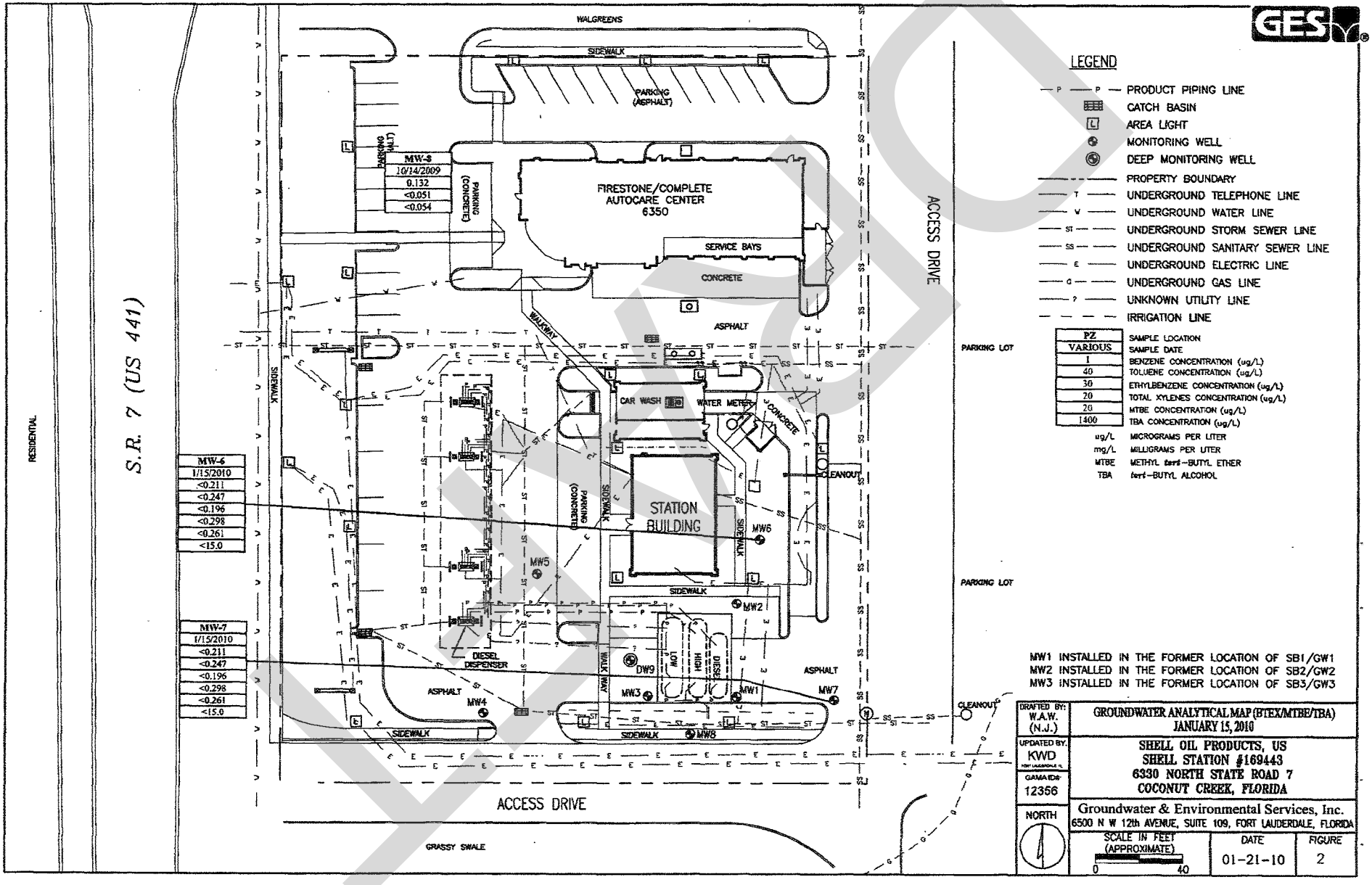

WALGREENS
SIDEWALK
PARKING (ASPHALT)
PARKING (ASPHALT)
MW-8
10/14/2009
0.132
<0.051
<0.054
PARKING (CONCRETE)
FIRESTONE/COMPLETE AUTOCARE CENTER 6350
SERVICE BAYS
CONCRETE
ASPHALT
WALKWAY
ACCESS DRIVE
PARKING LOT
CAR WASH
WATER METER
3" CONCRETE
CLEANOUT
STATION BUILDING
SIDEWALK
PARKING (CONCRETE)
MW6
MW5
MW2
MW-6
1/15/2010
<0.211
<0.247
<0.196
<0.298
<0.261
<15.0
MW-7
1/15/2010
<0.211
<0.247
<0.196
<0.298
<0.261
<15.0
DIESEL DISPENSER
DW9
LOW
HIGH
DIESEL
MW3
MW1
MW7
MW4
ASPHALT
WALK WAY
SIDEWALK
MW8
CLEANOUT
RESIDENTIAL
S.R. 7 (US 441)
ACCESS DRIVE
GRASSY SWALE
LEGEND
PRODUCT PIPING LINE
CATCH BASIN
AREA LIGHT
MONITORING WELL
DEEP MONITORING WELL
PROPERTY BOUNDARY
UNDERGROUND TELEPHONE LINE
UNDERGROUND WATER LINE
UNDERGROUND STORM SEWER LINE
UNDERGROUND SANITARY SEWER LINE
UNDERGROUND ELECTRIC LINE
UNDERGROUND GAS LINE
UNKNOWN UTILITY LINE
IRRIGATION LINE
PZ SAMPLE LOCATION
VARIOUS SAMPLE DATE
1 BENZENE CONCENTRATION (ug/L)
40 TOLUENE CONCENTRATION (ug/L)
30 ETHYLBENZENE CONCENTRATION (ug/L)
20 TOTAL XYLENES CONCENTRATION (ug/L)
20 MTBE CONCENTRATION (ug/L)
1400 TBA CONCENTRATION (ug/L)
ug/L MICROGRAMS PER LITER
mg/L MILLIGRAMS PER LITER
MTBE METHYL tert-BUTYL ETHER
TBA tert-BUTYL ALCOHOL
MW1 INSTALLED IN THE FORMER LOCATION OF SB1/GW1
MW2 INSTALLED IN THE FORMER LOCATION OF SB2/GW2
MW3 INSTALLED IN THE FORMER LOCATION OF SB3/GW3
DRAFTED BY: W.A.W. (N.J.)
UPDATED BY: KWD
GAMA ID#: 12356
NORTH
GROUNDWATER ANALYTICAL MAP (BTEX/MTBE/TBA)
JANUARY 15, 2010
SHELL OIL PRODUCTS, US
SHELL STATION #169443
6330 NORTH STATE ROAD 7
COCONUT CREEK, FLORIDA
Groundwater & Environmental Services, Inc.
6500 N W 12th AVENUE, SUITE 109, FORT LAUDERDALE, FLORIDA
SCALE IN FEET (APPROXIMATE)
0 40
DATE 01-21-10
FIGURE 2

Table 2

GROUNDWATER ANALYTICAL SUMMARY (BTEX/MTBE/TBA/TRPH)

Shell Service Station # 169443
6330 State Road 7
Coconut Creek, Broward County, Florida
FDEP Fac ID # 06/9807767

Sample Identification	Date Sampled	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	TBA (ug/L)	TRPH (ug/L)
GCTL		**1**	**40**	**30**	**20**	**20**	**1,400**	**5,000**
NADC		**100**	**400**	**300**	**200**	**200**	**14,000**	**50,000**
MW-1	01/29/2008	**32.40**	1.080	<0.1959	4.488	<0.2562	95.6	72 I
	04/09/2008	**54.84**	6.497	<0.1959	9.649	**21.71**	187	NA
	08/01/2008	<0.2105	<0.1601	<0.1959	<0.6946	7.550	128	<6
	10/29/2008	<0.2105	<0.1601	<0.1959	<0.6946	<0.2562	32.5	NA
	01/06/2009	<0.2105	<0.1601	<0.1959	1.849 I	<0.2562	<2.00	NA
	04/03/2009	<0.2105	0.8400 I	<0.1959	<0.6946	<0.2562	<2.00	NA
	07/09/2009	<0.2105	<0.1601	<0.1959	<0.6946	<0.2562	<2.00	NA
	10/14/2009	<0.211	<0.247	<0.196	<0.696	<0.261	<15.0	NA
MW-2	01/29/2008	**10.02**	<0.1601	<0.1959	<0.6946	<0.2562	62.6	129
	04/09/2008	**1.846**	<0.1601	<0.1959	<0.6946	<0.2562	19.3	NA
	08/01/2008	<0.2105	<0.1601	<0.1959	<0.6946	<0.2562	36.5	<6
	10/29/2008	<0.2105	<0.1601	<0.1959	<0.6946	<0.2562	27.0	NA
	01/06/2009	<0.2105	<0.1601	<0.1959	<0.6946	1.952 I	<2.00	NA
	04/03/2009	<0.2105	0.5400 I	<0.1959	<0.6946	<0.2562	<2.00	NA
	07/09/2009	<0.2105	<0.1601	<0.1959	<0.6946	<0.2562	<2.00	NA
	10/14/2009	<0.211	<0.247	<0.196	<0.696	0.351 I	<15.0	NA
MW-3	01/29/2008	**104.8**	<0.1601	<0.1959	8.919	10.91	86.5	3,398 I
	04/09/2008	**207.8**	1.732	<0.1959	**25.91**	**52.14**	294	NA
	08/01/2008	<0.2105	<0.1601	<0.1959	<0.6946	11.89	118	<6
	10/29/2008	<0.2105	<0.1601	<0.1959	<0.6946	<0.2562	<2.00	NA
	01/06/2009	<0.2105	<0.1601	<0.1959	<0.6946	<0.2562	<2.00	NA
	04/03/2009	<0.2105	<0.1601	<0.1959	<0.6946	<0.2562	<2.00	NA
	07/09/2009	<0.2105	<0.1601	<0.1959	<0.6946	<0.2562	<2.00	NA
	10/14/2009	<0.211	<0.247	<0.196	<0.696	<0.261	<15.0	NA
MW-4	05/29/2008	<0.2105	<0.1601	<0.1959	<0.6946	6.610	11.1	<1
	10/29/2008	<0.2105	<0.1601	<0.1959	<0.6946	<0.2562	<2.00	NA
	01/06/2009	<0.2105	<0.1601	<0.1959	<0.6946	<0.2562	<2.00	NA
	04/03/2009	<0.2105	1.130	<0.1959	<0.6946	<0.2562	<2.00	NA
	07/09/2009	<0.2105	<0.1601	<0.1959	<0.6946	<0.2562	<2.00	NA
	10/14/2009	<0.211	<0.247	<0.196	<0.696	<0.261	<15.0	NA
MW-5	05/29/2008	**4.520**	<0.1601	<0.1959	<0.6946	<0.2562	<2.00	<1
	08/01/2008	**1.050**	<0.1601	<0.1959	<0.6946	13.27	78.2	<6
	10/29/2008	<0.2105	<0.1601	<0.1959	<0.6946	13.99	154	NA
	01/06/2009	<0.2105	<0.1601	<0.1959	<0.6946	16.25	98.4	NA
	04/03/2009	<0.2105	<0.1601	<0.1959	<0.6946	7.960	<2.00	NA
	07/09/2009	<0.2105	<0.1601	<0.1959	<0.6946	4.084 I	15.3	NA
	10/14/2009	<0.211	<0.247	<0.196	<0.696	2.68	19.0 I	NA
MW-6	05/29/2008	<0.2105	<0.1601	<0.1959	<0.6946	<0.2562	<2.00	<1
	01/15/2010	<0.211	<0.247	<0.196	<0.298	<0.261	<15.0	NA
MW-7	05/29/2008	<0.2105	<0.1601	<0.1959	<0.6946	<0.2562	<2.00	<1
	01/15/2010	<0.211	<0.247	<0.196	<0.298	<0.261	<15.0	NA

Table 2

GROUNDWATER ANALYTICAL SUMMARY (BTEX/MTBE/TBA/TRPH)

Shell Service Station # 169443
6330 State Road 7
Coconut Creek, Broward County, Florida
FDEP Fac ID # 06/9807767

Sample Identification	Date Sampled	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	TBA (ug/L)	TRPH (ug/L)
GCTL		**1**	**40**	**30**	**20**	**20**	**1,400**	**5,000**
NADC		**100**	**400**	**300**	**200**	**200**	**14,000**	**50,000**
MW-8	05/29/2008	**4.870**	<0.1601	<0.1959	<0.6946	<0.2562	<2.00	137 I
	08/01/2008	<0.2105	<0.1601	<0.1959	<0.6946	<0.2562	<2.00	<6
	10/29/2008	<0.2105	<0.1601	<0.1959	<0.6946	<0.2562	<2.00	NA
	01/06/2009	<0.2105	<0.1601	<0.1959	<0.6946	<0.2562	<2.00	NA
	04/03/2009	<0.2105	0.5200 I	<0.1959	<0.6946	<0.2562	<2.00	NA
	07/09/2009	<0.2105	<0.1601	<0.1959	<0.6946	<0.2562	<2.00	NA
	10/14/2009	<0.211	<0.247	<0.196	<0.696	<0.261	<15.0	NA
DW-9	05/29/2008	**91.63**	1.290	<0.1959	12.220	**22.18**	40.0	138 I
	08/01/2008	**14.33**	<0.1601	<0.1959	<0.6946	16.26	84.0	128
	08/29/2008	**7.470**	<0.1601	<0.1959	2.910	**25.96**	169	NA
	10/29/2008	**84.18**	<0.1601	<0.1959	9.681	**31.07**	279	NA
	1/6/2009	**42.14**	<0.1601	<0.1959	16.06	**32.28**	170	NA
	4/3/2009	0.7800 I	<0.1601	<0.1959	1.040	16.00	392	NA
	7/9/2009	<0.2105	<0.1601	<0.1959	<0.6946	**27.63**	212	NA
	7/21/2009	<0.2105	<0.1601	<0.1959	<0.6946	<0.2562	299	NA
	10/14/2009	<0.211	<0.247	<0.196	<0.696	17.5	299	NA

Notes:
GCTL - Groundwater Cleanup Target Level
NADC - Natural Attenuation Default Concentrations
MDL - Method Detection Limit
I- The reported value is between the laboratory Method Detection Limit (MDL) and the laboratory Practical Quantitative Limit (PQL)
<# - Less than the method detection limit of #
µg/L - Micrograms/liter
MTBE - Methyl tertiary butyl ether
NA - not analyzed.

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Table 3

GROUNDWATER ANALYTICAL SUMMARY (PAH)

Shell Service Station # 169443
6330 State Road 7
Coconut Creek, Broward County, Florida
FDEP Fac ID # 06/9807767

Sample Identification (Depth)	Date Sampled	Naphthalene (ug/L)	1-Methyl Napthalene (ug/L)	2-Methylnaphthalene (ug/L)	Acenaphthene (ug/L)	Acenaphthylene (ug/L)	Anthracene (ug/L)	Benzo(a)anthracene (ug/L)	Benzo(a)pyrene (ug/L)	Benzo(b)fluoranthene (ug/L)	Benzo(g,h,i)perylene (ug/L)	Benzo(k)fluoranthene (ug/L)	Chrysene (ug/L)	Dibenzo(a,h)anthracene (ug/L)	Fluoranthene (ug/L)	Fluorene (ug/L)	Indeno(1,2,3-cd)pyrene (ug/L)	Phenanthrene (ug/L)	Pyrene (ug/L)
GCTL		14	28	28	20	210	2,100	0.05	0.2	0.05	210	0.5	4.8	0.005	280	280	0.05	210	210
NADC		140	280	280	200	2,100	21,000	0.5	2	0.5	2,100	5	48	0.05	2,800	2,800	0.5	2,100	2,100
MW-1	1/29/2008	0.586	1.43	1.62	<0.033	<0.007	<0.003	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	<0.003	<0.014	<0.005	<0.033	<0.027
	8/1/2008	0.211	1.20	1.39	0.061	<0.007	<0.003	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	<0.003	0.093	<0.005	<0.033	<0.027
	10/29/2008	0.063	0.329	0.149	<0.034	<0.007	<0.003	<0.003	<0.002	<0.003	<0.009	<0.003	<0.004	<0.003	<0.003	0.035 I	<0.005	<0.034	<0.027
	1/6/2009	<0.022	0.317	<0.054	<0.033	<0.007	<0.003	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	<0.003	<0.014	<0.005	<0.033	0.088
	4/3/2009	<0.022	0.075 I	<0.054	<0.033	<0.007	<0.003	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	<0.003	<0.014	<0.005	<0.033	<0.027
	10/14/2009	0.026 I	<0.051	<0.054	0.040 I	<0.007	<0.003	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	0.068	0.074	0.037 I	<0.033	0.078
MW-2	1/29/2008	<0.022	<0.051	<0.054	<0.033	<0.007	<0.003	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	<0.003	<0.014	<0.005	<0.033	<0.027
	8/1/2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/29/2008	0.034 I	<0.052	<0.054	<0.033	<0.007	<0.003	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	<0.003	<0.014	<0.005	<0.034	<0.027
	1/6/2009	<0.022	<0.051	<0.054	<0.033	<0.007	0.030 I	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	0.134	<0.014	<0.005	0.191	0.116
	4/3/2009	<0.022	<0.051	<0.054	<0.033	<0.007	<0.003	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	<0.003	<0.014	<0.005	<0.033	<0.027
	10/14/2009	<0.022	<0.051	<0.054	<0.033	<0.007	<0.003	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	<0.003	<0.014	<0.005	<0.033	<0.027
MW-3	1/29/2008	0.450	0.998	1.07	<0.033	<0.007	<0.003	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	<0.003	<0.014	<0.005	<0.033	<0.027
	8/1/2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/29/2008	<0.022	<0.052	0.088 I	<0.034	<0.007	<0.003	<0.003	<0.002	<0.003	<0.009	<0.003	<0.004	<0.003	<0.003	<0.014	<0.005	0.045 I	<0.027
	1/6/2009	<0.022	<0.051	<0.054	<0.033	<0.007	<0.003	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	<0.003	<0.014	<0.005	<0.033	<0.027
	4/3/2009	<0.022	<0.051	<0.054	<0.033	<0.007	<0.003	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	<0.003	<0.014	<0.005	<0.033	<0.027
	10/14/2009	<0.022	<0.051	<0.054	<0.033	<0.007	<0.003	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	<0.003	<0.014	<0.005	<0.033	<0.027
MW-4	5/29/2008	<0.022	<0.051	<0.054	<0.033	<0.007	<0.003	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	<0.003	<0.014	<0.005	<0.033	<0.027
	10/29/2008	<0.022	<0.053	<0.055	<0.034	<0.008	<0.003	<0.003	<0.002	<0.003	<0.009	<0.003	<0.004	<0.004	<0.003	<0.014	<0.005	0.199	0.166
	1/6/2009	<0.022	<0.051	<0.054	<0.033	<0.007	<0.003	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	<0.003	<0.014	<0.005	<0.033	<0.027
	4/3/2009	<0.022	<0.051	<0.054	<0.033	<0.007	<0.003	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	<0.003	<0.014	<0.005	<0.033	<0.027
	10/14/2009	<0.022	<0.051	<0.054	<0.033	<0.007	<0.003	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	<0.003	<0.014	<0.005	<0.033	<0.027
MW-5	5/29/2008	<0.022	<0.051	<0.054	<0.033	<0.007	<0.003	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	<0.003	<0.014	<0.005	<0.033	<0.027
	8/1/2008	0.045 I	0.072 I	<0.054	<0.033	<0.007	<0.003	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	<0.003	<0.014	<0.005	<0.033	<0.027
	10/29/2008	0.028 I	<0.052	<0.055	<0.034	<0.007	<0.003	<0.003	<0.002	<0.003	<0.009	<0.003	<0.004	<0.003	<0.003	<0.014	<0.005	<0.034	<0.027
	1/6/2009	<0.022	<0.051	<0.054	<0.033	<0.007	<0.003	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	<0.003	<0.014	<0.005	0.042 I	<0.027
	4/3/2009	<0.022	<0.051	<0.054	<0.033	<0.007	<0.003	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	<0.003	<0.014	<0.005	<0.033	<0.027
	10/14/2009	<0.022	<0.051	<0.054	<0.033	<0.007	<0.003	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	<0.003	<0.014	<0.005	<0.033	<0.027

FINAL

Table 3

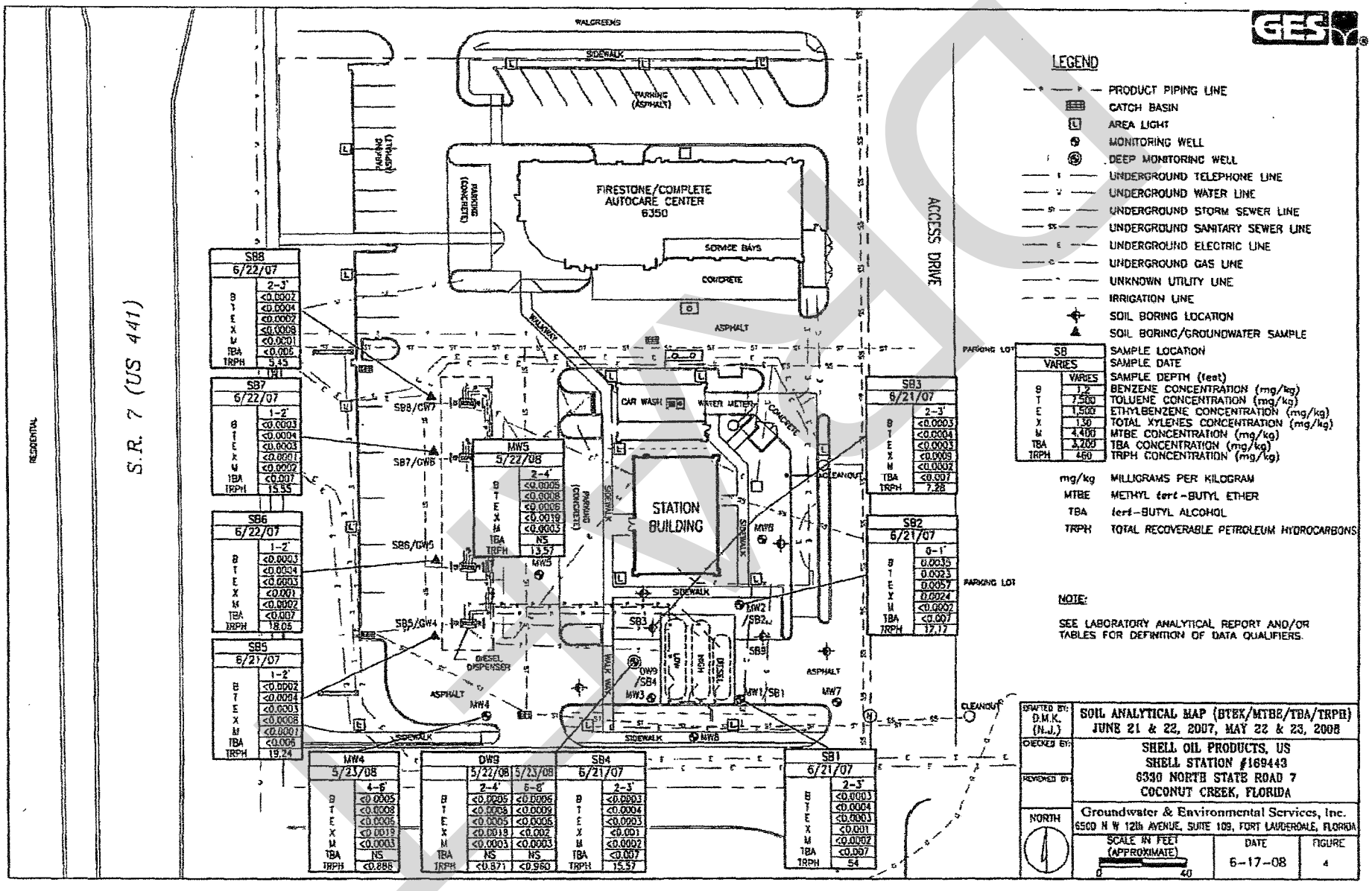
GROUNDWATER ANALYTICAL SUMMARY (PAH)

Shell Service Station # 169443
6330 State Road 7
Coconut Creek, Broward County, Florida
FDEP Fac ID # 06/9807767

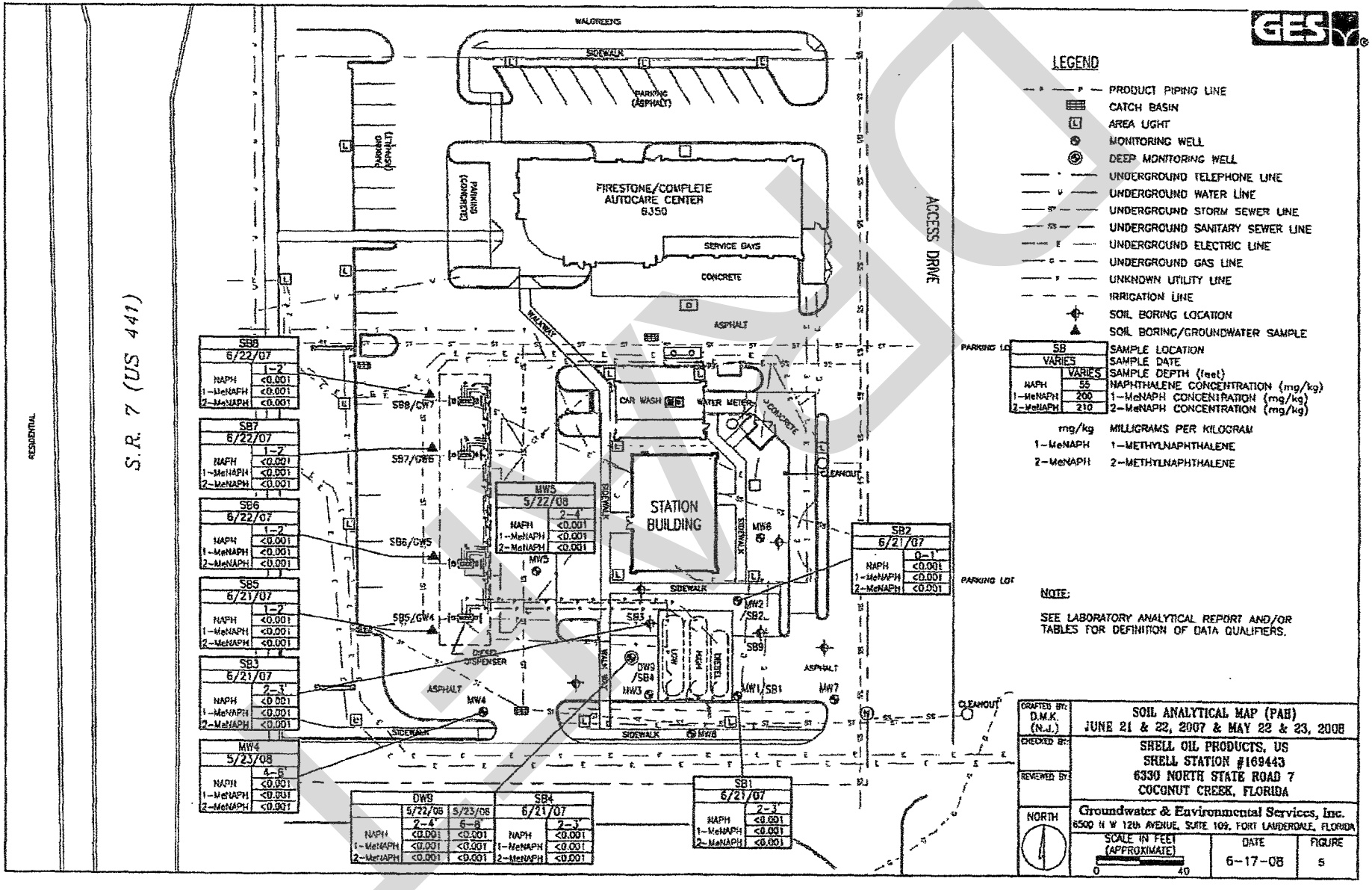
Sample Identification (Depth)	Date Sampled	Naphthalene (ug/L)	1-Methyl Naphthalene (ug/L)	2-Methylnaphthalene (ug/L)	Acenaphthene (ug/L)	Acenaphthylene (ug/L)	Anthracene (ug/L)	Benzo(a)anthracene (ug/L)	Benzo(a)pyrene (ug/L)	Benzo(b)fluoranthene (ug/L)	Benzo(g,h,i)perylene (ug/L)	Benzo(k)fluoranthene (ug/L)	Chrysene (ug/L)	Dibenzo(a,h)anthracene (ug/L)	Fluoranthene (ug/L)	Fluorene (ug/L)	Indeno(1,2,3-cd)pyrene (ug/L)	Phenanthrene (ug/L)	Pyrene (ug/L)
GCTL		**14**	**28**	**28**	**20**	**210**	**2,100**	**0.05**	**0.2**	**0.05**	**210**	**0.5**	**4.8**	**0.005**	**280**	**280**	**0.05**	**210**	**210**
NADC		***140***	***280***	***280***	***200***	***2,100***	***21,000***	***0.5***	***2***	***0.5***	***2,100***	***5***	***48***	***0.05***	***2,800***	***2,800***	***0.5***	***2,100***	***2,100***
MW-6	5/29/2008	0.034 I	<0.051	<0.054	<0.033	<0.007	<0.003	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	<0.003	<0.014	<0.005	<0.033	<0.027
MW-7	5/29/2008	0.336	0.565	0.810	<0.033	<0.007	<0.003	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	<0.003	<0.014	<0.005	<0.033	<0.027
MW-8	5/29/2008	0.038 I	<0.051	0.065 I	<0.033	<0.007	<0.003	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	<0.003	<0.014	<0.005	<0.033	<0.027
	8/1/2008	0.119	0.057 I	0.067 I	<0.033	<0.007	<0.003	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	<0.003	<0.014	<0.005	<0.033	<0.027
	10/29/2008	<0.022	<0.052	<0.055	<0.034	<0.007	<0.003	<0.003	<0.002	<0.003	<0.009	<0.003	<0.004	<0.003	<0.003	<0.014	<0.005	<0.034	<0.027
	1/6/2009	<0.022	<0.051	<0.054	<0.033	<0.007	<0.003	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	0.046 I	<0.014	<0.005	0.064	0.031 I
	4/3/2009	<0.022	<0.051	<0.054	<0.033	<0.007	<0.003	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	<0.003	<0.014	<0.005	<0.033	<0.027
	10/14/2009	0.132	<0.051	<0.054	<0.033	<0.007	<0.003	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	<0.003	<0.014	<0.005	<0.033	<0.027
DW-9	5/29/2008	3.21	3.32	4.60	<0.033	<0.007	<0.003	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	<0.003	<0.014	<0.005	<0.033	<0.027
	8/1/2008	5.05	6.42	8.79	<0.033	<0.007	<0.003	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	<0.003	<0.014	<0.005	<0.033	<0.027
	10/29/2008	2.31	2.90	4.32	<0.033	<0.007	<0.003	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	<0.003	<0.014	<0.005	<0.034	<0.027
	1/6/2009	1.80	4.14	4.26	<0.033	<0.007	<0.003	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	<0.003	<0.014	<0.005	<0.033	<0.027
	4/3/2009	0.839	1.37	1.85	<0.033	<0.007	<0.003	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	<0.003	<0.014	<0.005	<0.033	<0.027
	10/14/2009	0.169	0.653	0.431	<0.033	<0.007	<0.003	<0.003	<0.002	<0.002	<0.009	<0.003	<0.004	<0.003	<0.003	<0.014	<0.005	<0.033	<0.027

Notes:
MDL - Method Detection Limit
GCTL - Groundwater Cleanup Target Level
NADC - Natural Attenuation Default Concentrations
ug/L = micrograms per liter
I - The reported value is between the laboratory MDL and the laboratory Practical Quantitative Limit (PQL)
NA- not analyzed.

FINAL



GES
LEGEND
PRODUCT PIPING LINE
CATCH BASIN
AREA LIGHT
MONITORING WELL
DEEP MONITORING WELL
UNDERGROUND TELEPHONE LINE
UNDERGROUND WATER LINE
UNDERGROUND STORM SEWER LINE
UNDERGROUND SANITARY SEWER LINE
UNDERGROUND ELECTRIC LINE
UNDERGROUND GAS LINE
UNKNOWN UTILITY LINE
IRRIGATION LINE
SOIL BORING LOCATION
SOIL BORING/GROUNDWATER SAMPLE
SAMPLE LOCATION
SAMPLE DATE
SAMPLE DEPTH (feet)
BENZENE CONCENTRATION (mg/kg)
TOLUENE CONCENTRATION (mg/kg)
ETHYLBENZENE CONCENTRATION (mg/kg)
TOTAL XYLENES CONCENTRATION (mg/kg)
MTBE CONCENTRATION (mg/kg)
TBA CONCENTRATION (mg/kg)
TRPH CONCENTRATION (mg/kg)
mg/kg MILLIGRAMS PER KILOGRAM
MTBE METHYL tert-BUTYL ETHER
TBA tert-BUTYL ALCOHOL
TRPH TOTAL RECOVERABLE PETROLEUM HYDROCARBONS
NOTE:
SEE LABORATORY ANALYTICAL REPORT AND/OR TABLES FOR DEFINITION OF DATA QUALIFIERS.
S.R. 7 (US 441)
RESIDENTIAL
WALGREENS
SIDEWALK
PARKING (ASPHALT)
PARKING (CONCRETE)
FIRESTONE/COMPLETE AUTOCARE CENTER 6350
SERVICE BAYS
CONCRETE
ASPHALT
WALKWAY
ACCESS DRIVE
CAR WASH
WATER METER
STATION BUILDING
CLEANOUT
DIESEL DISPENSER
PARKING LOT
SB8 6/22/07 2-3' B <0.0002 T <0.0004 E <0.0002 X <0.0008 M <0.0001 TBA <0.006 TRPH 5.45
SB7 6/22/07 1-2' B <0.0003 T <0.0004 E <0.0003 X <0.0001 M <0.0002 TBA <0.007 TRPH 15.55
SB6 6/22/07 1-2' B <0.0003 T <0.0004 E <0.0003 X <0.001 M <0.0002 TBA <0.007 TRPH 18.05
SB5 6/21/07 1-2' B <0.0002 T <0.0004 E <0.0003 X <0.0008 M <0.0001 TBA <0.006 TRPH 19.24
MW5 5/22/08 2-4' B <0.0005 T <0.0008 E <0.0006 X <0.0019 M <0.0003 TBA NS TRPH 13.57
SB3 6/21/07 2-3' B <0.0003 T <0.0004 E <0.0003 X <0.0009 M <0.0002 TBA <0.007 TRPH 7.28
SB2 6/21/07 0-1' B 0.0035 T 0.0023 E 0.0057 X 0.0024 M <0.0002 TBA <0.007 TRPH 17.17
MW4 5/23/08 4-6' B <0.0005 T <0.0008 E <0.0006 X <0.0019 M <0.0003 TBA NS TRPH <0.888
DW9 5/22/08 2-4' B <0.0005 T <0.0008 E <0.0005 X <0.0018 M <0.0003 TBA NS TRPH <0.871
DW9 5/23/08 6-8' B <0.0006 T <0.0009 E <0.0006 X <0.002 M <0.0003 TBA NS TRPH <0.960
SB4 6/21/07 2-3' B <0.0003 T <0.0004 E <0.0003 X <0.001 M <0.0002 TBA <0.007 TRPH 15.57
SB1 6/21/07 2-3' B <0.0003 T <0.0004 E <0.0003 X <0.001 M <0.0002 TBA <0.007 TRPH 54
DRAFTED BY: D.M.K. (N.J.)
CHECKED BY:
REVIEWED BY:
SOIL ANALYTICAL MAP (BTEX/MTBE/TBA/TRPH) JUNE 21 & 22, 2007, MAY 22 & 23, 2008
SHELL OIL PRODUCTS, US
SHELL STATION #169443
6330 NORTH STATE ROAD 7
COCONUT CREEK, FLORIDA
Groundwater & Environmental Services, Inc.
6500 N W 12th AVENUE, SUITE 109, FORT LAUDERDALE, FLORIDA
NORTH
SCALE IN FEET (APPROXIMATE) 0 40
DATE 6-17-08
FIGURE 4



GES
LEGEND
PRODUCT PIPING LINE
CATCH BASIN
AREA LIGHT
MONITORING WELL
DEEP MONITORING WELL
UNDERGROUND TELEPHONE LINE
UNDERGROUND WATER LINE
UNDERGROUND STORM SEWER LINE
UNDERGROUND SANITARY SEWER LINE
UNDERGROUND ELECTRIC LINE
UNDERGROUND GAS LINE
UNKNOWN UTILITY LINE
IRRIGATION LINE
SOIL BORING LOCATION
SOIL BORING/GROUNDWATER SAMPLE
SB SAMPLE LOCATION
VARIES SAMPLE DATE
VARIES SAMPLE DEPTH (feet)
NAPH 55 NAPHTHALENE CONCENTRATION (mg/kg)
1-MeNAPH 200 1-MeNAPH CONCENTRATION (mg/kg)
2-MeNAPH 210 2-MeNAPH CONCENTRATION (mg/kg)
mg/kg MILLIGRAMS PER KILOGRAM
1-MeNAPH 1-METHYLNAPHTHALENE
2-MeNAPH 2-METHYLNAPHTHALENE
NOTE:
SEE LABORATORY ANALYTICAL REPORT AND/OR TABLES FOR DEFINITION OF DATA QUALIFIERS.
S.R. 7 (US 441)
RESIDENTIAL
ACCESS DRIVE
WALGREENS
SIDEWALK
PARKING (ASPHALT)
PARKING (CONCRETE)
FIRESTONE/COMPLETE AUTOCARE CENTER 6350
SERVICE BAYS
CONCRETE
ASPHALT
WALKWAY
CAR WASH
WATER METER
STATION BUILDING
CLEANOUT
DIESEL DISPENSER
PARKING LOT
SB8 6/22/07 1-2' NAPH <0.001 1-MeNAPH <0.001 2-MeNAPH <0.001
SB7 6/22/07 1-2' NAPH <0.001 1-MeNAPH <0.001 2-MeNAPH <0.001
SB6 6/22/07 1-2' NAPH <0.001 1-MeNAPH <0.001 2-MeNAPH <0.001
SB5 6/21/07 1-2' NAPH <0.001 1-MeNAPH <0.001 2-MeNAPH <0.001
SB3 6/21/07 2-3' NAPH <0.001 1-MeNAPH <0.001 2-MeNAPH <0.001
MW4 5/23/08 4-6' NAPH <0.001 1-MeNAPH <0.001 2-MeNAPH <0.001
MW5 5/22/08 2-4' NAPH <0.001 1-MeNAPH <0.001 2-MeNAPH <0.001
SB2 6/21/07 0-1' NAPH <0.001 1-MeNAPH <0.001 2-MeNAPH <0.001
DW9 5/22/08 2-4' 5/23/08 6-8' NAPH <0.001 <0.001 1-MeNAPH <0.001 <0.001 2-MeNAPH <0.001 <0.001
SB4 6/21/07 2-3' NAPH <0.001 1-MeNAPH <0.001 2-MeNAPH <0.001
SB1 6/21/07 2-3' NAPH <0.001 1-MeNAPH <0.001 2-MeNAPH <0.001
SB8/GW7
SB7/GW6
SB6/GW5
SB5/GW4
MW2/SB2
SB3
SB9
DW9/SB4
MW3
MW1/SB1
MW7
MW4
MW5
MW6
MW8
NORTH
DRAFTED BY: D.M.K. (N.J.)
CHECKED BY:
REVIEWED BY:
SOIL ANALYTICAL MAP (PAH)
JUNE 21 & 22, 2007 & MAY 22 & 23, 2008
SHELL OIL PRODUCTS, US
SHELL STATION #169443
6330 NORTH STATE ROAD 7
COCONUT CREEK, FLORIDA
Groundwater & Environmental Services, Inc.
6500 N W 12th AVENUE, SUITE 109, FORT LAUDERDALE, FLORIDA
SCALE IN FEET (APPROXIMATE)
0 40
DATE 6-17-08
FIGURE 5

Table 2

SOIL ANALYTICAL SUMMARY (BTEX/MTBE/TRPH)

Shell Service Station # 169443
6330 State Road 7
Coconut Creek, Broward County, Florida
FDEP Fac ID # 06/9807767

Sample Identification	Date Sampled	Depth Interval (ft.)	Net OVA Reading (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	Tert-Butyl Alcohol (mg/kg)	TRPH (mg/kg)
Commercial/Industrial Direct Exposure				**1.7**	**60,000**	**9,200**	**700**	**24,000**	**19,000**	**2,700**
Residential Direct Exposure				**1.2**	**7,500**	**1,500**	**130**	**4,400**	**3,200**	**460**
Leachability				**0.007**	**0.5**	**0.6**	**0.2**	**0.09**	**5.7**	**340**
SB-1	21-Jun-07	2-3	380	<0.0002654	<0.0004099	<0.0002900	<0.0009586	<0.0001620	<0.00699	54 I
SB-2	21-Jun-07	0-1	2400	0.003451	0.002276	0.005681	0.002388	<0.0001714	<0.00739	17.17 I
SB-3	21-Jun-07	2-3	5100	<0.0002536	<0.0003918	<0.0002772	<0.0009160	<0.0001548	<0.00668	7.28 I
SB-4	21-Jun-07	2-3	250	<0.0002742	<0.0004236	<0.0002997	<0.0009904	<0.0001674	<0.00722	15.57
SB-5	21-Jun-07	1-2	<1	<0.0002312	<0.0003571	<0.0002526	<0.0008350	<0.0001411	<0.00609	19.24
SB-6	22-Jun-07	1-2	<1	<0.0002704	<0.0004176	<0.0002955	<0.0009765	<0.0001650	<0.00712	18.06 I
SB-7	22-Jun-07	1-2	<1	<0.0002767	<0.0004274	<0.0003024	<0.0009993	<0.0001689	<0.00729	15.55 I
SB-8	22-Jun-07	2-3	<1	<0.0002277	<0.0003516	<0.0002488	<0.0008222	<0.0001390	<0.00599	5.45 I
MW-4	23-May-08	4-6	0.4	<0.0005147	<0.0007949	<0.0005624	<0.001858	<0.0003141	NA	<0.888
MW-5	22-May-08	2-4	35.9	<0.0005286	<0.0008164	<0.0005776	<0.001909	<0.0003226	NA	13.57 I
DW-9	22-May-08	2-4	10.6	<0.0005024	<0.0007760	<0.0005490	<0.001815	<0.0003066	NA	<0.871
DW-9	23-May-08	6-8	9.5	<0.0005568	<0.0008599	<0.0006084	<0.002010	<0.0003398	NA	<0.960

<# = Less than the method detection limit of #
mg/kg = Milligrams/kilogram
MTBE = Methyl tertiary butyl ether

DRAFT

Table 3

SOIL ANALYTICAL SUMMARY (PAH)

Shell Service Station # 169443
6330 State Road 7
Coconut Creek, Broward County, Florida
FDEP Fac ID # 06/9807767

Sample Identification	Date Sampled	Depth Interval (ft.)	Net OVA Reading (ppm)	Naphthalene (mg/kg)	1-Methyl Naphthalene (mg/kg)	2-Methylnaphthalene (mg/kg)	Acenaphthene (mg/kg)	Acenaphthylene (mg/kg)	Anthracene (mg/kg)	Benzo(a)anthracene (mg/kg)	Benzo(a)pyrene (mg/kg)	Benzo(b)fluoranthene (mg/kg)	Benzo(g,h,i)perylene (mg/kg)	Benzo(k)fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno(1,2,3-cd)pyrene (mg/kg)	Phenanthrene (mg/kg)	Pyrene (mg/kg)
Comm./Industrial Direct Exposure				**300**	**1,800**	**2,100**	**20000**	**20000**	**300,000**	**#**	**0.7**	**#**	**52000**	**#**	**#**	**#**	**59,000**	**33,000**	**#**	**36,000**	**45,000**
Residential Direct Exposure				**55**	**200**	**210**	**2400**	**1800**	**21,000**	**#**	**0.1**	**#**	**2500**	**#**	**#**	**#**	**3200**	**2600**	**#**	**2,200**	**2,400**
Leachability				**2.1**	**3.1**	**8.5**	**2.1**	**27**	**2,500**	**0.8**	**8**	**2.4**	**32000**	**24**	**77**	**0.7**	**1200**	**160.0**	**6.6**	**250**	**880**
SB-1	21-Jun-07	2-3	380	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001
SB-2	21-Jun-07	0-1	2400	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005 I	<0.001	<0.001	<0.002	0.011
SB-3	21-Jun-07	2-3	5100	<0.001	<0.001	<0.001	<0.001	<0.002	0.021	0.061	0.041	0.046	0.018	0.022	0.044	0.010	0.122	<0.001	0.032	0.088	0.114
SB-4	21-Jun-07	2-3	250	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.001
SB-5	21-Jun-07	1-2	<1	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001
SB-6	22-Jun-07	1-2	<1	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.001
SB-7	22-Jun-07	1-2	<1	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	0.002 I	0.003 I	0.004 I	0.004 I	0.002 I	0.005 I	0.001 I	0.005 I	<0.002	0.007	<0.003	0.004 I
SB-8	22-Jun-07	2-3	<1	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	0.001 I	0.003 I	0.005 I	0.004 I	0.002 I	0.004 I	<0.001	0.005 I	<0.001	0.007	<0.002	0.003 I
MW-4	23-May-08	4-6	0.4	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001
MW-5	22-May-08	2-4	35.9	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001
DW-9	22-May-08	2-4	10.6	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001
DW-9	23-May-08	6-8	9.5	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.002	<0.001

I - The reported value is between the laboratory MDL and the laboratory Practical Quantitative Limit (PQL)
MDL - Method Detection List
<# = Less than the method detection limit of #
mg/kg = Milligrams/kilogram
MTBE = Methyl tertiary butyl ether
 # = (Toxic Equivalency Factors for Carcinogenic PAHs) Multiply Analytical Result by TEF
All June 2007 soil samples collected by URS, Corp.

Contaminant	TEF
benzo(a)pyrene	1
benzo(a)anthracene	0.1
benzo(b)fluoranthene	0.1
benzo(k)fluoranthene	0.01
chrysene	0.001
dibenz(a,h)anthracene	1
indeno(1,2,3-cd)pyrene	0.1

Florida Department of Environmental Protection
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DATA ENTERED

DEP Form # 62-761.900(2)
Form Title: Storage Tank Registration Form
Effective Date: July 13, 1998
DEP Application No. FEB 07 2006 MP
(Filled in by DEP)

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

Please review *Registration Instructions* before completing the form.

Please check all that apply	[✓] New Registration	[ ] New Owner	[ ] New Tanks
	[ ] Facility Info Update/Correction	[ ] Owner Info Update/Correction	[ ] Tank Info Update/Correction

A. FACILITY INFORMATION

County: 06, Broward	DEP Facility ID: 9807767

Facility Name: Shell, Regency Lakes
Facility Address: 6330 N State Rd 7 City: Coconut Creek Zip: 33073
Facility Contact: _____ Business Phone: (___) _____
Facility Type(s): _____ NAICS Code: _____ Financial Responsibility: _____

24 Hour Emergency Contact: _____ **Emergency Phone:** (___) _____

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:	Facility - Responsible Person Relation Type:	Effective Date
Mail address:	**[√] Facility Account Owner (pays fees)**	
City, ST, Zip:	Facility Account Owner information must be provided when the	
Contact:	facility contains active (in-use) storage tanks on site.	
Telephone:	**STCM Account Number (if known)**	59118
Identify other appropriate facility relationships for this party: [ ] Facility Owner/Operator [✓] Property Owner [✓] Storage Tank Owner		

Name:	Other owner, relationship type(s)	Effective Date
Mail address:	[ ] Facility Owner/Operator	
City, ST, Zip:	[ ] Property Owner	
Contact:	[ ] Storage Tank Owner	
Telephone:	[ ] Other:	

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	U	20,000		B			AEIM	CFJK	
2	T	U	12,000		B			AEIM	CFJK	
3	T	U	10,000		D			AEIM	CFJK	

Certified Contractor (performing tank installation or removal): B&M Construction DBPR License No.: PCC-056868

Registration Certification: **To the best of my knowledge and belief, all information submitted on this form is true, accurate, and complete.**

Charles J. Wicke, Broward County EPD — Charles J. Wicke — 10/12/05
Printed Name & Title **Signature** **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., Suite 364	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

Environmental Protection and Growth Management Department
ENVIRONMENTAL AND CONSUMER PROTECTION
One North University Drive, Suite A203, Plantation, Florida 33324
954-519-1260 • Fax 954-765-4804

@BrowardECPD
@BrowardChildCareLicensing
@BrowardCountyEnvironment

September 27, 2019
Karl Estock
Shell-First Coast Energy #1811
6330 N SR 7
Coconut Creek, FL, 33073

RE: **Compliance Assistance Offer**
Shell-First Coast Energy #1811, 6330 N SR 7, Coconut Creek, 33073
DEP Facility ID#: 9807767
Broward County – Storage Tank Program

Dear Karl Estock,

A storage tanks inspection and file review were conducted at the above noted facility on or about *September 12, 2019*, by the Broward County Environmental and Consumer Protection Division, on behalf of the Florida Department of Environmental Protection. During the inspection and file review, potential non-compliance was noted. The purpose of this letter is to offer compliance assistance as a means of resolving this matter.

Specifically, potential non-compliance with the requirements of Chapter 376 and 403, Florida Statutes, and *Chapter 62-762*, Florida Administrative Code (Fla. Admin. Code) was observed. Please see the attached inspection report for a full account of County observations and recommendations. We request you review the item(s) of concern and respond in writing within **15 days** of receipt of this Compliance Assistance Offer. Your written response should include one of the following:

1. Describe what has been done to resolve the non-compliance issue(s) or provide a schedule describing how/when the remaining issues will be addressed.
2. Provide the requested information, or information that mitigates the concerns or demonstrates them to be invalid.
3. Arrange for the inspector to visit your facility to discuss the item(s) of concern.

It is the Department's desire that you are able to adequately address the aforementioned issues so that this matter can be closed. Your failure to respond promptly may result in the initiation of formal enforcement proceedings. Please address your response and any questions to *Aneese Williams* at 954-818-7531 or aneesewilliams@broward.org.

Sincerely,

Aneese Williams
Natural Resource Specialist
Enclosure:

DRAFT

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: 9807767 County: BROWARD Inspection Date:09/12/2019
Facility Type: A - Retail Station
Facility Name: SHELL-FIRST COAST ENERGY #1811 # of inspected ASTs: 0
6330 N SR 7 USTs: 3
COCONUT CREEK, FL 33073 Mineral Acid Tanks: 0
Latitude: 26° 18' 23.8968"
Longitude: 80° 12' 4.7052"
LL Method: DPHO

Inspection Result:

Result: Minor Out of Compliance

Signatures:

TKBWNR - BROWARD COUNTY ENVIRONMENTAL PROTECTION DEPT (954) 519-1259

Storage Tank Program Office and Phone Number

Aneese J Williams

Inspector Name



Inspector Signature
Principal Inspector
BROWARD COUNTY ENVIRONMENTAL PROTECTION DEPT

Roland Williams

Representative Name



Representative Signature
Compliance Inspector
First Coast Energy

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: NAUTILUS INSURANCE COMPANY

Effective Date: 04/23/2018 Expiration Date: 04/23/2020

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Completed System Tests

Type	Date Completed	Results	Reviewed	Next Due Date	Comment
Annual Operability Test	02/27/2018	Passed	09/27/2019	02/27/2021	Dispenser Containment Testing done by Discovery Tank Testing, Inc
Annual Operability Test	02/27/2018	Passed	09/27/2019	02/27/2021	Piping Sump Containment Testing done by Discovery Tank Testing, Inc
Annual Operability Test	02/20/2019	Passed	09/27/2019	02/20/2020	Single Walled Spill Bucket Testing done by Discovery Tank Testing, Inc
Annual Inline Leak Detector Test	02/20/2019	Passed	09/27/2019	02/20/2020	Done by Discovery Tank Testing, Inc
Annual Operability Test	02/20/2019	Passed	09/27/2019	02/20/2020	Monitoring System Certification done by Discovery Tank Testing, Inc
Annual Operability Test	02/20/2019	Passed	09/27/2019	02/20/2020	Overfill Equipment Testing done by Discovery Tank Testing, Inc

Reviewed Records

Record Category	Record type	From Date	To Date	Reviewed Record Comment
Two Years	Monthly Maint. Visual Examinations and Results	08/16/2017	08/12/2019	
Two Years	Certificate of Financial Responsiblity	04/23/2018	09/12/2019	Insurance Policy is current until 4/23/2020
Other	Current Local Government Permit, If Applicable	02/01/2019	09/12/2019	County License is current until 1/31/2021

Violations:

Type: Violation
Significance: Minor
Rule: 62-761.700(1), 62-761.700(1)(a), 62-761.700(1)(a)1., 62-761.700(1)(a)2.
Violation Text: Storage tank system has a not repaired component which has or could cause a release or discharge.
Explanation: Regular Multiport Sump Piping and Premium Multiport Sump Piping and major corrosion.
Corrective Action: Clean, seal and paint the Regular Muliport Sump Piping and Premium Multiport Sump Piping, send pictures to me at aneesewilliams@broward.org

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Type:	Violation
Significance:	Minor
Rule:	62-761.700(1), 62-761.700(1)(a), 62-761.700(1)(a)1., 62-761.700(1)(a)2.
Violation Text:	Storage tank system has a not repaired component which has or could cause a release or discharge.
Explanation:	Corrosion on Regular STP and Piping.
Corrective Action:	Clean, seal and paint Regular STP and Piping, send pictures to me at aneesewilliams@broward.org

Site Visit Comments

09/12/2019

Facility has (3) double wall underground storage tanks: (1) 10,000 gallon diesel, (1) 12,000 gallon premium and (1) 20,000 gallon regular. All sump manway covers were securely closed and in good condition. There are STP sumps and Multiport sumps. The sump piping was inspected. All Diesel piping is in good condition. Piping in Regular (STP & Multiport Sumps) has corrosion. Piping in Premium (STP & Multiport Sumps) has corrosion Clean, seal and paint the piping in the Regular and Premium (STP & Multiport Sumps). The Diesel and Premium STP's are in good condition. The Regular STP has corrosion. Clean, seal and paint the Regular STP. All sumps were dry. Test boots are pulled back from fitting to allow product to flow back into sump. Verified sensors were in place and at upright position. All spill buckets were inspected, facility has single-walled spill buckets. All spill buckets contained a little water. The fills were inspected. Fill covers are color coded per API standards. Fill cap gaskets were in place and secure. Fill drop tube contains a flapper valve, which is an overfill protection device that is required on all underground storage tanks to prevent an incident, release, or discharge from a storage tank during filling of the storage tank system. Vapor recovery poppet caps were in place, cap gasket is secure and fits tightly onto the dry break poppet. The spring loaded valve is working properly. Observed the vent piping and vent caps are on. The UST's are monitored by a Veeder-Root TLS-350R system. Veeder-Root is used for automatic tank gauging. System Status Report and Liquid Status Test reads normal. The display reads normal. Visual and audible alarms are functioning properly. The Veeder-Root monitors the interstitial space on the tanks, the STP sumps, and the dispenser liners. The dispensers and dispenser liners were inspected. Liners were all free of liquid and in good condition. Sensors were mounted in the correct positions. Dispenser sump piping looked good. Shear valves are properly anchored. The hoses are in good condition, no tears or holes. Nozzles and breakaways are in good condition. Discovery Tank Testing, Inc conducted the following tests: Monitoring System Certification, Overfill Equipment, Line Leak Detector, Single Walled Spill Bucket, Piping Sump Containment and Dispenser Containment. All testing passed. Reviewed cover page. Reviewed site diagram. Verified Coordinates. County license is current. FDEP placard is current. Monthly visual inspections are available. Certificate of Financial Responsibility Insurance is current. Part D & P are available. Class A Owner, Class B Maintenance and Class C Operator Training Certifications are available. Report sent to Karl Estock kestock@firstcoastenergy.com

Inspection Photos

Added Date 09/27/2019

Facility Photo



Added Date 09/27/2019

Tank Area



DRAFT

Added Date 09/27/2019

Regular STP Sump



Added Date 09/27/2019

Regular STP Sump With Corrosion



Added Date 09/27/2019

Regular Multiport Sump



Added Date 09/27/2019

Regular Multiport Sump With Corroded Piping



Added Date 09/27/2019

Regular Multiport Sump With Corroded Piping



Added Date 09/27/2019

Premium STP Sump



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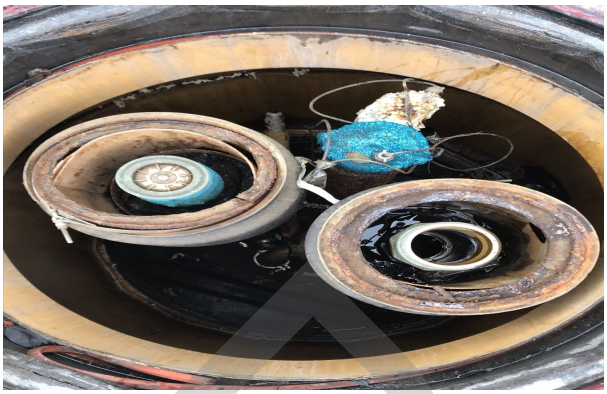
Added Date 09/27/2019

Premium Multiport Sump



Added Date 09/27/2019

Premium Multiport Sump With Corroded Piping



Added Date 09/27/2019

Premium Multiport Sump With Corroded Piping



Added Date 09/27/2019

Diesel STP Sump



Added Date 09/27/2019

Diesel Multiport Sump



Added Date 09/27/2019

Vents



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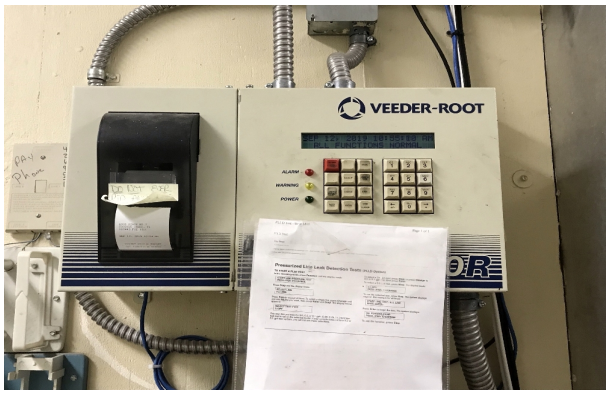
Added Date 09/27/2019

Dispenser



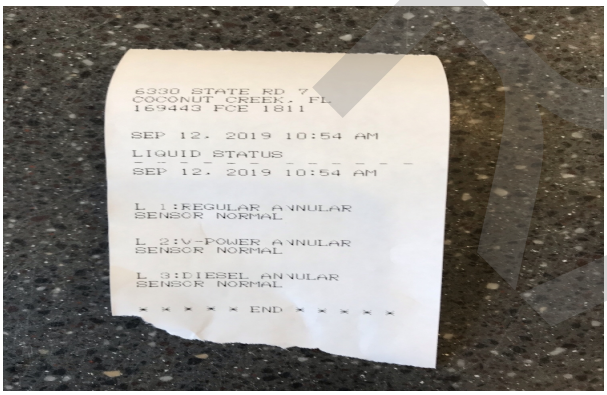
Added Date 09/27/2019

Veeder-Root



Added Date 09/27/2019

Liquid Status


6330 STATE RD 7
COCONUT CREEK, FL
169443 FCE 1811

SEP 12, 2019 10:54 AM

LIQUID STATUS

SEP 12, 2019 10:54 AM

L 1:REGULAR ANNULAR
SENSOR NORMAL

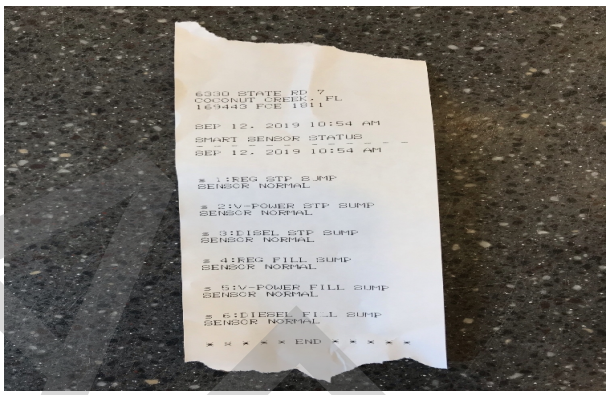
L 2:V-POWER ANNULAR
SENSOR NORMAL

L 3:DIESEL ANNULAR
SENSOR NORMAL

* * * * * END * * * * *

Added Date 09/27/2019

Smart Sensor Status


6330 STATE RD 7
COCONUT CREEK, FL
169443 FCE 1811

SEP 12, 2019 10:54 AM

SMART SENSOR STATUS

SEP 12, 2019 10:54 AM

1:REG STP SUMP
SENSOR NORMAL

2:V-POWER STP SUMP
SENSOR NORMAL

3:DIESEL STP SUMP
SENSOR NORMAL

4:REG FILL SUMP
SENSOR NORMAL

5:V-POWER FILL SUMP
SENSOR NORMAL

6:DIESEL FIL SUMP
SENSOR NORMAL

* * * * * END * * * * *

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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: 9800891 County: BROWARD Inspection Date: 07/23/2019
Facility Type: A - Retail Station
Facility Name: SHELL-FIRST COAST ENERGY #1836 # of Inspected ASTs: 0
1011 S POWERLINE RD USTs: 5
DEERFIELD BEACH, FL 33442 Mineral Acid Tanks: 0
Latitude: 26° 18' 13.7699"
Longitude: 80° 9' 10.7383"
LL Method: DPHO

Inspection Result:

Result: Minor Out of Compliance

Signatures:

TKBWNR - BROWARD COUNTY ENVIRONMENTAL PROTECTION DEPT (954) 519-1259

Storage Tank Program Office and Phone Number

Nalinie X Ramnaraine	Roland Williams
Inspector Name	**Representative Name**
Inspector Signature **Principal Inspector** **BROWARD COUNTY ENVIRONMENTAL PROTECTION DEPT**	**Representative Signature** **Compliance Inspector** **First Coast Energy Inc**

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: NAUTILUS INSURANCE COMPANY
Effective Date: 04/23/2018 Expiration Date: 04/23/2020

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Facility ID: 9800891

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
Annual Operability Test	08/07/2018	Passed	07/26/2019	08/07/2021	Done by Discovery Tank Testing Inc.- Dispenser Sump (1/2, 3/4, 5/6, 7/8, 9/10, 11/12, 13/14, 17/18)
Annual Operability Test	08/07/2018	Passed	07/26/2019	08/07/2021	Done by Discovery Tank Testing Inc.- Double Walled Spill Bucket
Annual Operability Test	08/07/2018	Passed	07/26/2019	08/07/2019	Done by Discovery Tank Testing Inc.- Overfill Device (Flapper Valves)
Annual Operability Test	08/07/2018	Passed	07/26/2019	08/07/2021	Done by Discovery Tank Testing Inc.- Below Grade Piping Sumps
Annual Operability Test	06/26/2019	Passed	07/28/2019	06/26/2022	Done by Discovery Tank Testing Inc.- Dispenser Sump (15/16 & 19/20)
Annual Operability Test	08/07/2018	Passed	07/26/2019	08/07/2019	Done by Discovery Tank Testing Inc.
Annual Inline Leak Detector Test	08/07/2018	Passed	07/26/2019	08/07/2019	Done by Discovery Tank Testing Inc.

Reviewed Records

Record Category	Record Type	From Date	To Date	Reviewed Record Comment
Other	Current Local Government Permit, If Applicable	04/01/2018	07/26/2019	Broward County Storage Tank License Valid Through 03/31/2020
Two Years	Monthly Maint. Visual Examinations	10/17/2017	06/14/2019	Done In House

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Record Category	Record Type	From Date	To Date	Reviewed Record Comment
	and Results			
Two Years	Certificate of Financial Responsiblity	04/23/2018	07/26/2019	Certificate of Financial Responsibility Valid through 04/23/2020
Two Years	Electronic Release Detection Equip. Monthly Checks	10/17/2017	06/14/2019	Done In House

New Violations

Type: Violation

Significance: Minor

Rule: 62-761.700(1), 62-761.700(1)(a), 62-761.700(1)(a)1., 62-761.700(1)(a)2.

Violation Text: Storage tank system has a not repaired component which has or could cause a release or discharge.

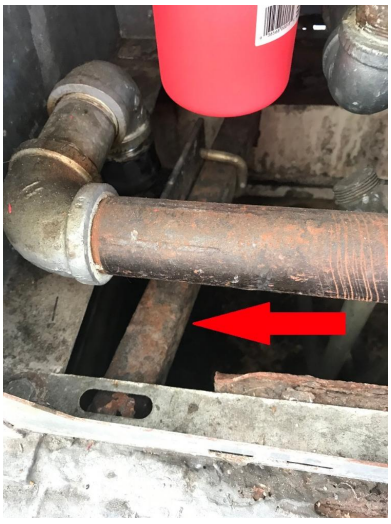
Explanation: During the inspection it was observed that at Dispenser 11/12- the left Shear Valve bar is not secured. Appeared to be loose or broken.

Corrective Action: Operator needs to conduct the necessary repairs to properly secured the dispenser shear valves. Once completed please send reports and pictures via email at nramnaraine@broward.org

Violation Photos

Added Date 07/28/2019

the left Shear Valve bar is not secured.
Appeared to be



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Site Visit Comments

07/23/2019

Reviewed cover page (No Change Required). Reviewed site diagram and Photo(s).
Verified site's longitude and Latitude coordinates.
FDEP Placard is current.
Proof of Financial Responsibility is current. Both State of Florida Storage Tank Certificate of Insurance form (Part D) and State of Florida Certificate of Financial Responsibility form (Part P) were presented.
Toured facility with Facility Mr. Roland Williams- Compliance Inspector
Emergency shut off switch located at the front of the retail store.

Five (5) STP Sumps were inspected:
The sump/containment manway covers were fitted tightly to minimize the intrusion of storm water or groundwater.
Diesel Sump: The sump/containment cover was fitted tightly to minimize the intrusion of storm water or groundwater. Sump was dry and free of liquid. Observed the mechanical line leak detector located on the submersible turbine pumps. The leak detector sensor was visible and secured. The test boot fittings were pulled back from the secondary lines. Submersible turbine pump and its piping showed no signs of corroded and rusted. The entry boot fitting was inspected. Entry boot fittings showed no signs of corrosion damage, tears and cracks.

Premium Sump: The sump/containment cover was fitted tightly to minimize the intrusion of storm water or groundwater. Sump was dry and free of liquid. Observed the mechanical line leak detector located on the submersible turbine pumps. The leak detector sensor was visible and secured. The test boot fittings were pulled back from the secondary lines. Submersible turbine pump and its piping showed no signs of corroded and rusted. The entry boot fitting was inspected. Entry boot fittings showed no signs of corrosion damage, tears and cracks.

Mid Grade Plus: The sump/containment cover was fitted tightly to minimize the intrusion of storm water or groundwater. Sump was dry and free of liquid. Observed the mechanical line leak detector located on the submersible turbine pumps. The leak detector sensor was visible and secured. The test boot fittings were pulled back from the secondary lines. Submersible turbine pump and its piping showed no signs of corroded and rusted. The entry boot fitting was inspected. Entry boot fittings showed no signs of corrosion damage, tears and cracks.

2 x Unleaded Sumps: The sump/containment cover was fitted tightly to minimize the intrusion of storm water or groundwater. Sump was dry and free of liquid. Observed the electrical line leak detector located on the submersible turbine pumps. The leak detector sensor was visible and secured. The test boot fittings were pulled back from the secondary lines. Submersible turbine pump and its piping showed no signs of corroded and rusted. The entry boot fitting was inspected. Entry boot fittings showed no signs of corrosion damage, tears and cracks.

Four StageI Vapor Recoveries were inspected. Sump caps were color coded "orange". Each Stage I Vapor Recovery Sump was dry. It was observed that the Dry break poppet cap properly sealed. Gasket on cap was securely in place. StageI Vapor Recovery poppets are tightly sealed moves freely when depressed.

Five Fill containments were inspected. Fill containment located in at the sump farm are Double walled. Each had a Fill/ Spill Containment Release Valve. Each fill caps were color code Yellow,

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Blue with white cross, red with white cross and white with black cross for diesel, mid-grade, premium and unleaded respectively. The fill caps were in locked position. Fill containments did contained liquid however, liquid was removed during the inspection and disposed properly. The fill cap gasket is in place and secure. Each fill piping is equipped with a Flapper valve overfills device.
Unleaded Fill Bucket (West) contained- ~ 1.50" of Liquid
Unleaded Fill Bucket (Middle) contained- ~ 1.25" of Liquid
Premium Fill Bucket (Middle) contained- ~ 1.50" of Liquid
Diesel Fill Bucket (Middle) contained- ~ 2.75" of Liquid

07/23/2019

There are ten (10) dispenser pumps located at the Dispenser Island assembly. Dispensers' sumps covers were locked, and the operator provided access for inspection. Dispenser sumps were dry, free of liquid. The pipe fittings and emergency shut off (shear) valves were in place. There was no leakage from the filter's connections. Filters were last change on 04/08/2019. There was no leakage observed at the hose, breakaway valves or nozzles. The valve lever and the connection to the bracket were sturdily in placed. The entry boot fitting was inspected. Entry boot fittings showed signs of no corrosion damage, tears and cracks. Dispensers are equipped with leak detector sensor which were visible and secured in its upright position.

Dispenser 13/14 contained liquid. Liquid was removed from the dispenser sump and disposed properly. Bolts and washer were found to be loose at the shear valve brackets. These were tighten during the inspection.

Dispenser 11/12- Left Shear Valve bar is not secured. Appeared to be loose/ broken

The system is monitored by the Veeder Root TLS 350. Status report was printed by Compliance Inspector.
Audible and visual alarms were tested and is functioning.
Veeder Root TLS 350 monitors the Dispenser Sumps, STP's and tank annular spaces.
System status report indicates: "All Functions Normal"
Liquid status Report indicated – The Tank's Interstitial sensors - "Normal"
Liquid status Report indicated – The Tank's STP Sump sensors - "Normal"
Liquid status Report indicated – The Tank's Dispenser Sump sensors - "Normal"

Tank's vent were visually inspected. Tank vents were sturdy and place.

During inspection facility was able to provide Monthly Visual Tank inspection log, annual operability and periodic testing results.
Monthly visual Tank inspections are performed inhouse.
Annual operability testing is Current.
Annual Line Leak Detector Test is Current.

Report will be sent to Mr. Karl Estock via email at kestock@firstcoastenergy.com

Inspection Photos

DRAFT

Facility ID: 9800891

Added Date 07/26/2019

Emergency Shut off switch



Added Date 07/26/2019

Veeder Root TLS 350



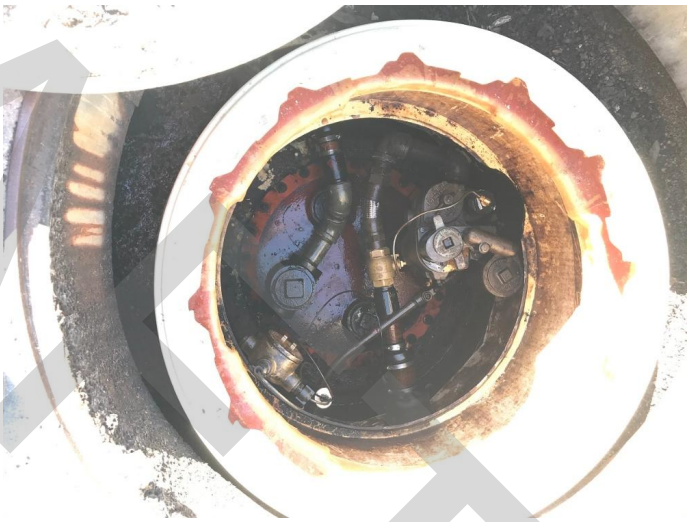
Added Date 07/26/2019

Veeder Root TLS 350 being tested



Added Date 07/26/2019

Diesel STP Sump

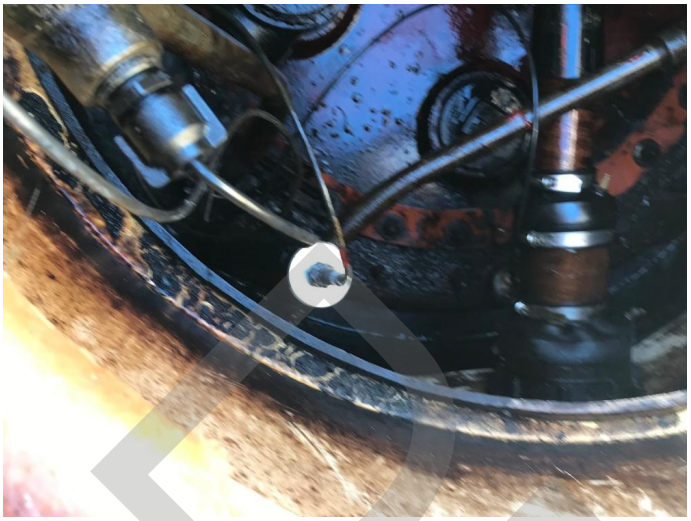


DRAFT

Facility ID: 9800891

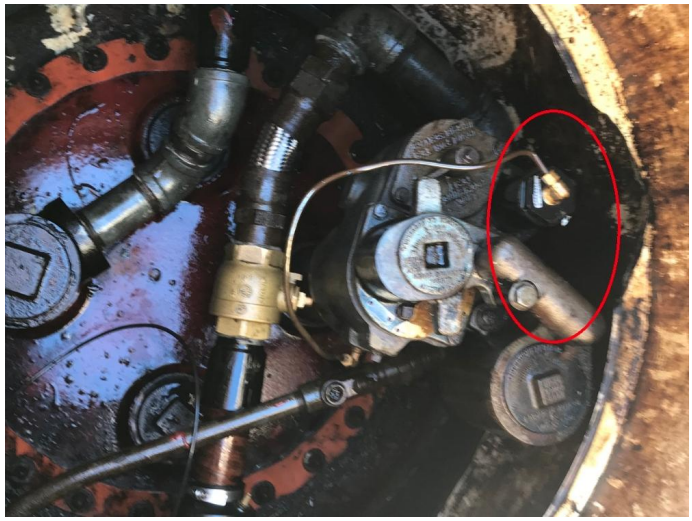
Added Date 07/26/2019

Leak Detector Sensor in Diesel STP Sump



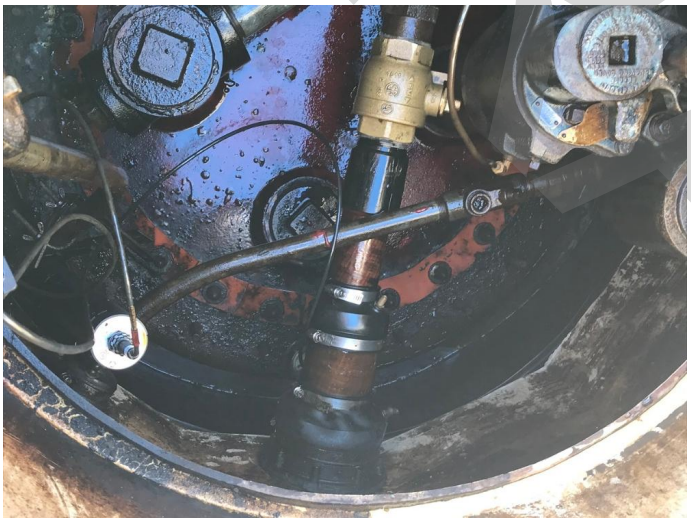
Added Date 07/26/2019

Mechanical line leak detector Diesel STP Sump



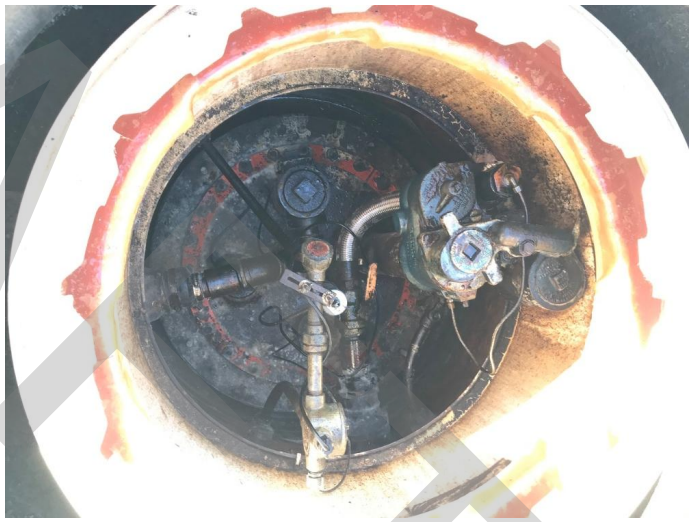
Added Date 07/26/2019

Test Boots



Added Date 07/26/2019

Premium STP Sump

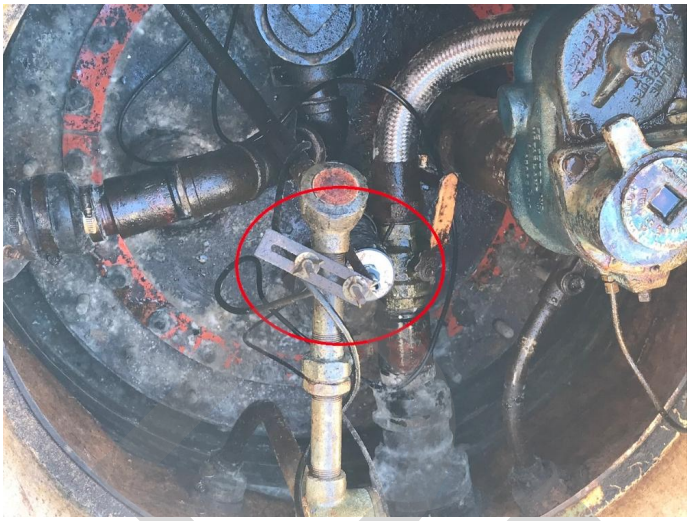


DRAFT

Facility ID: 9800891

Added Date 07/26/2019

Leak Detector Sensor in Premium STP Sump



Added Date 07/26/2019

Inside of Mid Grade STP Sump



Added Date 07/26/2019

Leak Detector Sensor in Mid grade STP Sump



Added Date 07/26/2019

Inside of Unleaded Sump (Middle)



DRAFT

Facility ID: 9800891

Added Date 07/26/2019

Inside of Unleaded Sump (West End)



Added Date 07/26/2019

Tanks' Vents



Added Date 07/26/2019

Dispenser Island



Added Date 07/26/2019

Unleaded (west End) Fill Containment



DRAFT

Facility ID: 9800891

Added Date 07/26/2019

Unleaded Fill Bucket (West) contained- ~ 1.50" of Liq



Added Date 07/26/2019

Flapper Valve Visible in Fill Pipe



Added Date 07/26/2019

Unleaded West- Stage-I Vapor Recovery



Added Date 07/26/2019

Unleaded (Middle) Fill Containment



DRAFT

Facility ID: 9800891

Added Date 07/26/2019

Unleaded Fill Bucket (Middle) contained- ~ 1.25" of Liq



Added Date 07/26/2019

Liquid being removed



Added Date 07/26/2019

Unleaded (Middle) Stage-I Vapor Recovery



Added Date 07/26/2019

Premium Fill Bucket



DRAFT

Facility ID: 9800891

Added Date 07/26/2019

Premium Fill Bucket (Middle) contained- ~ 1.50" of Liq



Added Date 07/26/2019

Diesel Fill Bucket (Middle) contained- ~ 2.75" of Liq



Added Date 07/26/2019

Diesel Fill Bucket



Added Date 07/26/2019

Liquid Being removed



DRAFT

Facility ID: 9800891

Added Date 07/28/2019

Inside Dispenser Sump



Added Date 07/28/2019

Entry Boots- Dispenser Sump



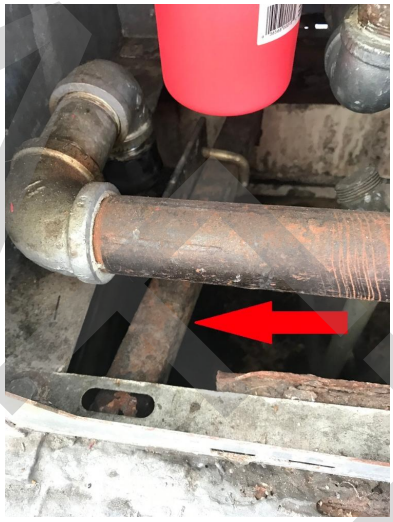
Added Date 07/28/2019

Leak Detector Sensor in Dispenser Sump



Added Date 07/28/2019

Dispenser 11/12- Left Shear Valve bar is not secured.



DRAFT

Facility ID: 9800891

Added Date 07/28/2019

Diesel Dispenser Pump



Added Date 07/28/2019

Dispenser Pump (Gas)



Added Date 07/28/2019

Nozzle and Break away valve



Added Date 07/28/2019

Break away valve



DRAFT

Facility ID: 9800891

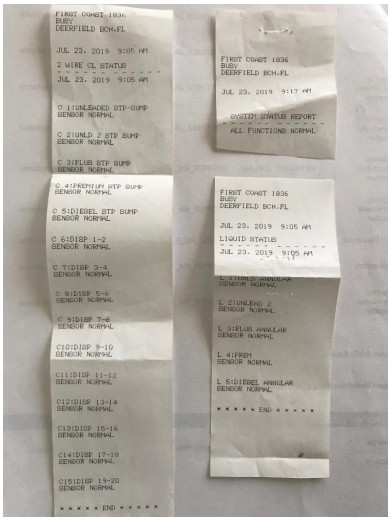
Added Date 07/28/2019

Sump Farm



Added Date 07/28/2019

Liquid Status Report



Added Date 07/28/2019

Dispenser 13/14 contained liquid- Liquid was removed



DRAFT

Site 15 Shell-First Coast Energy #1836
1011 S Powerline Road
Facility ID: 9800891
Risk Rating: Medium

DRAFT

Site 16 Coconut Creek Mitsubishi
4950 N State Road 7
Facility ID FLR000050419
Risk Rating: Medium

DRAFT

Department of Environmental Protection

Lawton Chiles
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Virginia B. Wetherell
Secretary

November 20, 1998

BRIAN BAKER, BODY SHOP DIR
COCONUT CREEK MITSUBISHI
4950 N STATE RD 7
COCONUT CREEK, FL 33073-

The Hazardous Waste Regulation Section has reviewed your application for a hazardous waste DEP/EPA Identification Number. Based on the information received you have been issued the following identification number for the facility located at **4950 N STATE RD 7 , COCONUT CREEK:**

FLR000050419

Your facility status is the following:

Small Quantity Generator

This letter is not an approval to transport hazardous waste or to operate a hazardous waste treatment, storage, or disposal (TSD) facility. Please contact the Department for complete requirements for hazardous waste transporters and TSDs.

Please notify us in writing if there is any change in your operations which would affect your status. For further assistance, please call (850)488-0300.

Sincerely,

Michael X. Redig

Michael X. Redig
Environmental Manager
Hazardous Waste Regulation Section

Site: 148482

DRAFT

Nov 14892

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

Form Approved. OMB No. 2050-0028. Expires 10-31-91
GSA No. 0246-EPA-QT

Please refer to the *Instructions for Filing Notification* before completing this form. The information requested here is required by law (*Section 3010 of the Resource Conservation and Recovery Act*).

EPA Notification of Regulated Waste Activity

United States Environmental Protection Agency

Date Received (For Official Use Only)
RCRA
NOV 05 1998
11/13/98

RECEIVED

I. Installation's EPA ID Number (Mark 'X' in the appropriate box)

[X] A. First Notification [ ] B. Subsequent Notification (complete item C)

C. Installation's EPA ID Number: FLR000050419

II. Name of Installation (Include company and specific site name)

COCONUT CREEK MITSUBISHI

III. Location of Installation (Physical address not P.O. Box or Route Number)

Street: 4950 N. STATE RD 7

Street (continued):

City or Town: COCONUT CREEK | State: FL | ZIP Code: 33073-

County Code: 011 | County Name: BROWARD SE

IV. Installation Mailing Address (See Instructions)

Street or P.O. Box: SAME

City or Town: | State: | ZIP Code: -

V. Installation Contact (Person to be contacted regarding waste activities at site)

Name (last): BAKER | (first): BRIAN

Job Title: BODY SHOP DIRECTOR | Phone Number (area code and number): 954-283-4440

VI. Installation Contact Address (See Instructions)

A. Contact Address Location: [X] Mailing: [ ] | B. Street or P.O. Box: SAME

City or Town: | State: | ZIP Code: -

VII. Ownership (See Instructions)

A. Name of Installation's Legal Owner: CORP. SAME

Street, P.O. Box, or Route Number:

City or Town: | State: | ZIP Code: -

Phone Number (area code and number): 954-283-4440 | B. Land Type: P | C. Owner Type: P | D. Change of Owner Indicator: Yes [ ] No [ ] | (Date Changed) Month Day Year:

N26°17'46.2" W80°12'7.8"

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

Form Approved. OMB No. 2050-0028. Expires 10-31-91
GSA No. 0246-EPA-OT

ID - For Official Use Only

VIII. Type of Regulated Waste Activity *(Mark 'X' in the appropriate boxes. Refer to instructions.)*

A. Hazardous Waste Activity

1. Generator (See Instructions)
   - [ ] a. Greater than 1000kg/mo (2,200 lbs.)
   - [X] b. 100 to 1000 kg/mo (220 - 2,200 lbs.)
   - [ ] c. Less than 100 kg/mo (220 lbs.)
2. Transporter (Indicate Mode in boxes 1-5 below)
   - [ ] a. For own waste only
   - [ ] b. For commercial purposes

   Mode of Transportation
   - [ ] 1. Air
   - [ ] 2. Rail
   - [ ] 3. Highway
   - [ ] 4. Water
   - [ ] 5. Other - specify
3. [ ] Treater, Storer, Disposer (at installation) Note: A permit is required for this activity; see instructions.
4. Hazardous Waste Fuel
   - [ ] a. Generator Marketing to Burner
   - [ ] b. Other Marketers
   - [ ] c. Burner - indicate device(s) - Type of Combustion Device
     - [ ] 1. Utility Boiler
     - [ ] 2. Industrial Boiler
     - [ ] 3. Industrial Furnace
5. [ ] Underground Injection Control

B. Used Oil Fuel Activities

1. Off-Specification Used Oil Fuel
   - [ ] a. Generator Marketing to Burner
   - [ ] b. Other Marketer
   - [ ] c. Burner - indicate device(s) - Type of Combustion Device
     - [ ] 1. Utility Boiler
     - [ ] 2. Industrial Boiler
     - [ ] 3. Industrial Furnace
2. [ ] Specification Used Oil Fuel Marketer (or On-site Burner) Who First Claims the Oil Meets the Specification

IX. Description of Regulated Wastes *(Use additional sheets if necessary)*

A. Characteristics of Nonlisted Hazardous Wastes. Mark 'X' in the boxes corresponding to the characteristics of nonlisted hazardous wastes your installation handles. *(See 40 CFR Parts 261.20 - 261.24)*

1. Ignitable (D001)	2. Corrosive (D002)	3. Reactive (D003)	4. Toxicity Characteristic (D000)	(List specific EPA hazardous waste number(s) for the Toxicity Characteristic contaminant(s))
[X]	[ ]	[ ]	[✓]	D006 D007 D008

B. Listed Hazardous Wastes. (See 40 CFR 261.31 - 33. See instructions if you need to list more than 12 waste codes.)

1	2	3	4	5	6
F003	F005				
7	**8**	**9**	**10**	**11**	**12**

C. Other Wastes. (State or other wastes requiring an I.D. number. See instructions.)

1	2	3	4	5	6

X. Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment.

Signature	Name and Official Title *(type or print)*	Date Signed
X	Bryan Baker - Body Shop Director	10/30/98

XI. Comments

Painting wastes only

Note: Mail completed form to the appropriate EPA Regional or State Office. (See Section III of the booklet for addresses.)

Analytical Report 368993

for

Filterworks USA Inc

Project Manager: Lesley Ike

KING COLLISION COCONUT CREEK

24-APR-10

Florida Testing Services, LLC

Genapure Analytical Services, Inc.

3231 NW 7th Avenue, Boca Raton, FL 33431
Ph:(561) 447-7373 Fax:(561) 447-6136

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL00449):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295)

DRAFT

24-APR-10

Project Manager: **Lesley Ike**
Filterworks USA Inc
3452 SW 15 Street
Deerfield Beach, FL 33442

Reference: XENCO Report No: **368993**
KING COLLISION COCONUT CREEK
Project Address:

Lesley Ike :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 368993. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 368993 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Terrence Anderson
Office Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY
Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America

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Sample Cross Reference 368993

Filterworks USA Inc, Deerfield Beach, FL

KING COLLISION COCONUT CREEK

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
King Collision (CC)	S	Apr-12-10 00:00		368993-001
East Booth	S	Apr-12-10 00:00		368993-002

DRAFT

XENCO Laboratories
Florida Testing Services, LLC

Certificate of Analytical Results 368993

Filterworks USA Inc, Deerfield Beach, FL
KING COLLISION COCONUT CREEK

Sample Id: **King Collision (CC)** Matrix: **Soil** % Moisture:
Lab Sample Id: **368993-001** Date Collected: **Apr-12-10 00:00**
Date Received: **Apr-13-10 11:04**

Analytical Method: TCLP Mercury by SW1311/7470A Prep Method: SW7470P
Analyst: BAT Date Prep: Apr-20-10 08:26 Tech: TIB
Seq Number: 803284

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Mercury	7439-97-6	U	0.002	0.001	mg/L	04/20/10 18:03	U	1

Analytical Method: TCLP Metals by SW846-1311/6010B Prep Method: SW3010A
Analyst: IST Date Prep: Apr-20-10 14:12 Tech: TEM
Seq Number: 803514

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Arsenic	7440-38-2	U	0.010	0.005	mg/L	04/22/10 16:32	U	1
Barium	7440-39-3	1.08	0.010	0.002	mg/L	04/22/10 16:32	V	1
Cadmium	7440-43-9	0.001	0.005	0.001	mg/L	04/22/10 16:32	I	1
Chromium	7440-47-3	0.064	0.005	0.001	mg/L	04/22/10 16:32		1
Lead	7439-92-1	0.015	0.010	0.003	mg/L	04/22/10 16:32		1
Selenium	7782-49-2	0.008	0.030	0.005	mg/L	04/22/10 16:32	I	1
Silver	7440-22-4	U	0.020	0.002	mg/L	04/22/10 16:32	U	1

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Project: Florida Standard List of Methods

XENCO Laboratories
Florida Testing Services, LLC

Certificate of Analytical Results 368993

Filterworks USA Inc, Deerfield Beach, FL

KING COLLISION COCONUT CREEK

Sample Id: **East Booth** Matrix: **Soil** % Moisture:
Lab Sample Id: **368993-002** Date Collected: **Apr-12-10 00:00**
Date Received: **Apr-13-10 11:04**

Analytical Method: TCLP Mercury by SW1311/7470A Prep Method: SW7470P
Analyst: BAT Date Prep: Apr-20-10 08:26 Tech: TIB
Seq Number: 803284

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Mercury	7439-97-6	U	0.002	0.001	mg/L	04/20/10 18:05	U	1

Analytical Method: TCLP Metals by SW846-1311/6010B Prep Method: SW3010A
Analyst: IST Date Prep: Apr-20-10 14:12 Tech: TEM
Seq Number: 803514

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Arsenic	7440-38-2	U	0.010	0.005	mg/L	04/22/10 16:38	U	1
Barium	7440-39-3	1.24	0.010	0.002	mg/L	04/22/10 16:38	V	1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	04/22/10 16:38	U	1
Chromium	7440-47-3	0.053	0.005	0.001	mg/L	04/22/10 16:38		1
Lead	7439-92-1	0.013	0.010	0.003	mg/L	04/22/10 16:38		1
Selenium	7782-49-2	0.009	0.030	0.005	mg/L	04/22/10 16:38	I	1
Silver	7440-22-4	U	0.020	0.002	mg/L	04/22/10 16:38	U	1

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Project: Florida Standard List of Methods

XENCO Laboratories

Flagging Criteria

FLORIDA Flagging Criteria

A Value reported is the mean (average) of two or more determinations. This code shall be used if the reported value is the average of results for two or more discrete and separate samples. These samples shall have been processed and analyzed independently. Do not use this code if the data are the result of replicate analysis on the same sample aliquot, extract or digestate.

B Results based upon colony counts outside the acceptable range. This code applies to microbiological tests and specifically to membrane filter colony counts. The code is to be used if the colony count is generated from a plate in which the total number of coliform colonies is outside the method indicated ideal range. This code is not to be used if a 100 mL sample has been filtered and the colony count is less than the lower value of the ideal range.

F When reporting species: F indicates the female sex. Otherwise it indicates RPD value is outside the acceptable range.

H Value based on field kit determination; results may not be accurate. This code shall be used if a field screening test (i.e., field gas chromatograph data, immunoassay, vendor-supplied field kit, etc.) was used to generate the value and the field kit or method has not been recognized by the Department as equivalent to laboratory methods.

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

J Estimated value. A "J" value shall be accompanied by a narrative justification for its use. Where possible, the organization shall report whether the actual value is less than or greater than the reported value. A "J" value shall not be used as a substitute for K, L, M, T, V, or Y, however, if additional reasons exist for identifying the value as estimate (e.g., matrix spiked failed to meet acceptance criteria), the "J" code may be added to a K, L, M, T, V, or Y. The following are some examples of narrative descriptions that may accompany a "J" code:

J1: No known quality control criteria exist for the component;

J2: The reported value failed to meet the established quality control criteria for either precision or accuracy (the specific failure must be identified);

J3: The sample matrix interfered with the ability to make any accurate determination;

J4: The data are questionable because of improper laboratory or field protocols (e.g., composite sample was collected instead of a grab sample).

J5: The field calibration verification did not meet calibration acceptance criteria.

J6: QC protocol not followed.

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XENCO Laboratories

Flagging Criteria

J7: B/A results for Chlorophyll does not meet 1 - 1.7 ratio.

K Off-scale low. Actual value is known to be less than the value given. This code shall be used if:

1. The value is less than the lowest calibration standard and the calibration curve is known to be non-linear; or
2. The value is known to be less than the reported value based on sample size, dilution. This code shall not be used to report values that are less than the laboratory practical quantitation limit or laboratory method detection limit.

L Off-scale high. Actual value is known to be greater than value given. To be used when the concentration of the analyte is above the acceptable level for quantitation (exceeds the linear range or highest calibration standard) and the calibration curve is known to exhibit a negative deflection.

M When reporting chemical analyses: presence of material is verified but not quantified; the actual value is less than the value given. The reported value shall be the laboratory practical quantitation limit. This code shall be used if the level is too low to permit accurate quantification, but the estimated concentration is greater than the method detection limit. If the value is less than the method detection limit use "T" below.

N Presumptive evidence of presence of material. This qualifier shall be used if:

1. The component has been tentatively identified based on mass spectral library search; or
2. There is an indication that the analyte is present, but quality control requirements for confirmation were not met (i.e., presence of analyte was not confirmed by alternative procedures).

O Sampled, but analysis lost or not performed.

Q Sample held beyond the accepted holding time. This code shall be used if the value is derived from a sample that was prepared or analyzed after the approved holding time restrictions for sample preparation or analysis.

T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes, only and shall not be used in statistical analysis.

U Indicates that the compound was analyzed for but not detected. This symbolshall be used to indicate that the specified component was not detected. The value associated with the qualifier shall be the laboratory method detection limit. Unless requested by the client, less than the method detection limit values shall not be reported (see "T" above).

V Indicates that the analyte was detected in both the sample and the associated method blank. Note: the value in the blank shall not be subtracted from associated samples.

The laboratory analysis was from an unpreserved or improperly preserved sample. The data may

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XENCO Laboratories

Flagging Criteria

Y not be accurate.

Z Too many colonies were present (TNTC); the numeric value represents the filtration volume.

? Data are rejected and should not be used. Some or all of the quality control data for the analyte were outside criteria, and the presence or absence of the analyte cannot be determined from the data.

* Not reported due to interference.

The following codes deal with certain aspects of field activities. The codes shall be used if the laboratory has knowledge of the specific sampling event. The codes shall be added by the organization collecting samples if they apply:

D The sample result was reported from a dilution.

E Indicates that extra samples were taken at composite stations.

R Significant rain in the past 48 hours. (Significant rain typically involves rain in excess of 1/2 inch within the past 48 hours.) This code shall be used when the rainfall might contribute to a lower than normal value.

! Data deviate from historically established concentration ranges.

+ Outside XENCO's scope of NELAC accreditation

DRAFT

XENCO Laboratories

Blank Summary 368993

nelac

Filterworks USA Inc, Deerfield Beach, FL

KING COLLISION COCONUT CREEK

Sample Id: **561143-1-BLK** Matrix: **WATER**

Lab Sample Id: **561143-1-BLK**

Analytical Method: **TCLP Mercury by SW1311/7470A** Prep Method: SW7470P

Date Analyzed: Apr-20-10 17:16 Analyst: BAT Date Prep: Apr-20-10 08:26 Tech: TIB

Seq Number: 803284

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Mercury	7439-97-6	U	0.200	0.113	ug/L	U	1

DRAFT

Project: Florida Standard List of Methods

Version: 1.000

XENCO Laboratories

Blank Summary 368993

nelac

Filterworks USA Inc, Deerfield Beach, FL

KING COLLISION COCONUT CREEK

Sample Id: **561219-1-BLK** Matrix: **WATER**

Lab Sample Id: **561219-1-BLK**

Analytical Method: TCLP Metals by SW846-1311/6010B Prep Method: SW3010A

Date Analyzed: Apr-21-10 17:01 Analyst: IST Date Prep: Apr-20-10 14:12 Tech: TEM

Seq Number: 803514

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	7.09	10.0	4.60	ug/L	I	1
Barium	7440-39-3	70.6	10.0	2.00	ug/L		1
Cadmium	7440-43-9	1.71	5.00	0.570	ug/L	I	1
Chromium	7440-47-3	U	5.00	1.10	ug/L	U	1
Lead	7439-92-1	7.59	10.0	3.10	ug/L	I	1
Selenium	7782-49-2	27.7	30.0	5.40	ug/L	I	1
Silver	7440-22-4	13.5	20.0	1.60	ug/L	I	1

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Project: Florida Standard List of Methods

Version: 1.003

Blank Spike Recovery

Project Name: KING COLLISION COCONUT CREEK

Work Order #: 368993 **Project ID:**

Lab Batch #: 803284 **Sample:** 561143-1-BKS **Matrix:** Water
Date Analyzed: 04/20/2010 **Date Prepared:** 04/20/2010 **Analyst:** BAT
Reporting Units: ug/L **Batch #:** 1

TCLP Mercury by SW1311/7470A Analytes	Blank Result [A]	BLANK /BLANK SPIKE RECOVERY STUDY Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Mercury	<0.113	2.00	2.18	109	75-125	

Lab Batch #: 803514 **Sample:** 561219-1-BKS **Matrix:** Water
Date Analyzed: 04/21/2010 **Date Prepared:** 04/20/2010 **Analyst:** IST
Reporting Units: ug/L **Batch #:** 1

TCLP Metals by SW846-1311/6010B Analytes	Blank Result [A]	BLANK /BLANK SPIKE RECOVERY STUDY Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Arsenic	7.09	1000	1100	110	75-125	
Barium	70.6	1000	1060	106	75-125	
Cadmium	1.71	1000	1040	104	75-125	
Chromium	<1.10	1000	1030	103	75-125	
Lead	7.59	1000	1050	105	75-125	
Selenium	27.7	1000	1160	116	75-125	
Silver	13.5	500	523	105	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.
BRL - Below Reporting Limit

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Form 3 - MS / MSD Recoveries

Project Name: KING COLLISION COCONUT CREEK

Work Order # 368993 Project ID:

Lab Batch ID: 803284 QC- Sample ID: 369253-003 S Batch #: 1 Matrix: Soil

Date Analyzed: 04/20/2010 Date Prepared: 04/20/2010 Analyst: BAT

Reporting Units: ug/L

TCLP Mercury by SW1311/7470A Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Mercury	<0.200	2.00	2.15	108	2.00	2.08	104	3	75-125	20	

Lab Batch ID: 803514 QC- Sample ID: 369253-001 S Batch #: 1 Matrix: Soil

Date Analyzed: 04/22/2010 Date Prepared: 04/20/2010 Analyst: IST

Reporting Units: ug/L

TCLP Metals by SW846-1311/6010B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	<10.0	1000	1270	127	1000	1280	128	1	75-125	20	J
Barium	639	1000	1750	111	1000	1800	116	3	75-125	20	
Cadmium	1.05	1000	1200	120	1000	1220	122	2	75-125	20	
Chromium	1.53	1000	1060	106	1000	1090	109	3	75-125	20	
Lead	<10.0	1000	1020	102	1000	1040	104	2	75-125	20	
Selenium	10.3	1000	1450	144	1000	1450	144	0	75-125	20	J
Silver	<20.0	500	591	118	500	608	122	3	75-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

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CHAIN OF CUSTODY RECORD 368993

Page 1 of 1

Lab W.O. 368993 F6 4/13/10

XENCO Laboratories
Environmental Asbestos Radiochemistry
xenco.com

Atlanta: 6017 Financial Dr. Norcross, GA 30071 770-449-8800 | Orlando: 5440 Hoffner Av. Ste 408 Orlando, FL 32812 407-426-8022
Boca Raton: 3231 NW 7th Ave. Boca Raton, FL 33431 561-447-7373 | Tampa: 2505 North Falkenburg Rd, Tampa, FL 33619 813-620-2000
Miami: 14100 Palmetto Frontage Rd. Miami Lakes, FL 33016 305-823-8500

Field Billable Hrs:

*** Container Type Codes**

VA Vial Amber		ES Encore Sampler	
VC Vial Clear		TS TerraCore Sampler	
VP Vial Pre-preserved		AC Air Canister	
GA Glass Amber		TB Tedlar Bag	
GC Glass Clear		ZB Zip Lock Bag	
PA Plastic Amber		PC Plastic Clear	

Other: _____

Size(s): 2oz, 4oz, 8oz, 16oz, 32oz, 1Gal, 40ml, 125 ml, 250 ml, 500 ml, 1L, Other: _____
Example: 40GC = 4oz Glass Clear, 40mlVP = 40ml Vial Pre-preserved

Company:	FILTERWORKS USA
Address:	3462 SW 15TH STREET
City:	DEERFIELD BEACH
State:	FL
Zip:	33442
PM/Attn:	LESLEY IKE
email:	FILTERWORKX@AOL.COM
Phone:	954-422-8900
Fax:	954-422-5794
Project Name:	KING COLLISION COCONUT CREEK
Project ID:	COCONUTCRK KING COLLISION
Sampler Signature:	
PO #	KING COLLISION
Quote #	CC

TAT Work Days = D Need results by: ASAP Time: _____

Std (5-10D) 6Hrs 1D 2D 3D 4D 5D 7D 10D 14D Other _____

Circle One Event: Daily Weekly Monthly (N/A) Quarterly Semi-Annual Annual

ANALYSES REQUESTED

**** Preservative Type Codes**

A. None E. HCL I. Ice
B. HNO_3 F. NaOH J. MCAA
C. H_2SO_4 G. $Na_2S_2O_3$ K. ZnAc&NaOH
D. NaOH H. $NaHSO_4$ L. Asbc Acid&NaOH
O. _____

^ Matrix Type Codes

GW Ground Water B Boil/Sediment/Solid
WW Waste Water W Wipe
DW Drinking Water A Air
SW Surface Water O Oil
OW Ocean/Sea Water T Tissue
(PL) Product-Liquid U Urine
(PS) Product-Solid B Blood
SL Sludge
Other FILTERS

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code ^	Composite or Grab	Field Filtered	Total # of containers	Cont Type *	Pres Type**	GC TCLP	GC 8RCRA	Hold Sample (CALL)	Additions:	REMARKS
	KING COLLISION (CC)	4/12/10						# Cont	Lab Only:					
1	EAST BOOTH	↓					2							
2														
3														
4														
5														
6														
7														
8														
9														
10														

Reg. Program / Clean-up Std	STATE for Certs & Reqs	QA/QC Level & Certification	EDDs	COC & Labels	Coolers Temp °C	Lab Use Only
CTLs TRRP DW NPDES LPST DryCln Other:	(FL) TX GA NC SC NJ PA OK LA AL IL Other:	1 2 3 4 CLP AFCEE QAPP NELAC DoD-ELAP Other:	ADaPT SEDD ERPIMS XLS Other:	Match Incomplete Absent Unclear	1. 4 2. 3.	Non-Conformances found? Samples intact upon arrival? Received on Wet Ice? Labeled with proper preservatives? Received within holding time? Custody seals intact? VOCs rec'd w/o headspace? Proper containers used? pH verified-acceptable, and VOCs? Received on time to meet HTs?

	Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
1	[signature]	FWUSA	4/12/10		LESLEY IKE	FWUSA	4/12/10	
2	LESLEY IKE	FWUSA	4/12/10		[signature]	Xenco	4/12/10	11:04
3								
4								

FTS: Philadelphia 610-955-5649 South Carolina 803-543-8099 B&A Laboratories: Corpus Christi 361-884-0371 Dallas 214-902-0300 Houston 281-240-4200 Odessa 432-563-1800 San Antonio 210-509-3334

Execution of this document by client creates a legal and binding agreement between client and Xenco for analytical and testing services provided by Xenco to client under Xenco's standard terms and conditions unless previously agreed in writing. Terms of payment are Net 30 days, and all past due amounts shall accrue interest at 1.5% per month until paid in full. All laboratory analytical data and reports generated by Xenco remain the exclusive property of Xenco until invoices for such data are paid in full.

Property of XENCO - Revision Date: Nov 12, 2009

C.O.C. Serial # 261397

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Apr 27 10 04:39p FILTERWORKS USA 954-422-5794 p.14

XENCO LABORATORIES

Container Receipt Verification Form

Work Order Number: 368993 Chain of Custody Number(s): _____

Container Type/ Pres.	Tests																											
	gal GA/	32oz N/M GA/	32oz N/M GA/	32oz N/M GA/	32oz W/M GA/	VOA/	VOA/	VOA/	120mL P w. Pill/	4oz Plastic/	4oz Plastic/	250mL HDPE/	250mL HDPE/	500mL HDPE/	500mL HDPE/	500mL HDPE/	1L HDPE/	1L HDPE/	8oz GC/	8oz GC/	8oz GC/	4oz GC/	4oz GC/	2oz GC/	2oz GC/	Tedlar Bag	Ampules/	Other/	Comments
1																													
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													

Abbreviations:

Gal GA = One gallon amber
32oz N/M GA = 32 oz Amberglass
VOA = 40mL vials
32oz W/M GA = 32 oz Wide Mouth Amberglass

1L HDPE = 1L (1000mL) Plastic Bottle
500mL HDPE = 500mL Plastic Bottle
250mL HPDE = 250mL Plastic Bottle

8oz GC = 8oz Soil Jar
4oz GC = 4oz Soil Jar
2oz GC = 2oz soil jar

120mL Plastic w. Pill = BacT
Zip = Ziplock Bag
4oz Plastic = 4oz Plastic Bottle

HCl = Hydrochloric Acid
H2SO4 = Sulfuric Acid
NaOH = Sodium Hydroxide
MeOH = Methanol
HNO3 = Nitric Acid
ZnAC = Zinc Acetate
Na2S2O3 = Sodium Thiosulfate

NH4Cl2 = Ammonium Chloride
DI H2O = DI Water
MCAA = Monochloroacetic Acid

Reviewed By: _____

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III. EMERGENCY CONTACTS

Give the following information to all notified agencies and authorities:

- Your name and telephone number.
- Name and address of the facility.
- Time and type of incident (e.g., release, fire).
- Name and quantity of material(s) involved, to the extent known.
- The extent of injuries, if any.
- Possible hazards to human health or the environment, outside the facility.

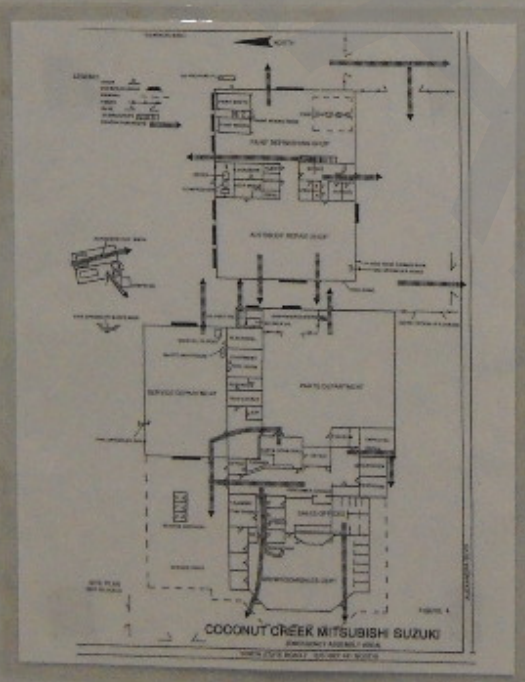
TABLE I

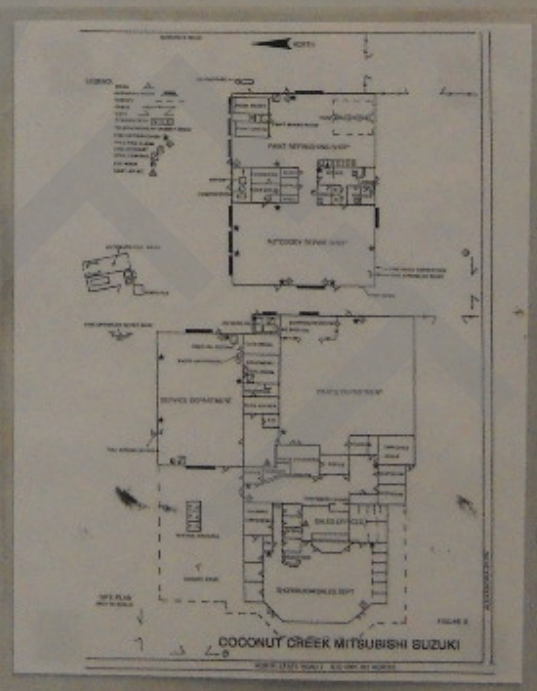
EMERGENCY COORDINATORS

1) Michael Sisi (Parts/Service Director) 7143 N. W. 61st Avenue Coconut Creek, FL 33073	Home: Cellular: Work:	(954) 421-8988 (954) 914-8187 (954) 283-4420
2) Bryan Baker (Body Shop Director) 4963 Rothchild Drive Coral Springs, FL 33067	Cellular: Work:	(954) 709-7638 (954) 283-4440

LOCAL EMERGENCY CONTACTS

Police Dept. (City of Coconut Creek)	911
(Non-Emergency)	(954) 975-7222
Fire Dept. (City of Coconut Creek)	911
(Non-Emergency)	(954) 956-1534
Hospital – Northwest Medical Center	(954) 974-3400
Ambulance/EMT	911
Florida Poison Control Center	1 (800) 282-3171





Safety Regulation Strategies, Inc.

Certificate Of Completion

this is to certify that on

June 24, 2008

Bryan Baker

successfully completed the

HM-181/126F/215

49 CFR Training and Testing

Including Security Awareness Training HM-232

in accordance with

The Department of Transportation

Certificate Number FLL-0709

Certificate Expires June 24, 2011

Joseph J. Kenny, II

President

Safety Regulation Strategies, Inc.
PO Box 3094 Fredericksburg, VA 22402
(800) 723-3734

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ETHO, IN U.S.A.

S/P2

Online University

Bryan Baker

has successfully completed

online training for

Supervisor's Course

Location: King Collision Center, 4950 N St Rd 7, Coconut Creek, FL 33073

Certificate Valid Thru: April 14, 2011

Course Access Expires: June 24, 2010

Daren Fristoe, President & COO

DRAFT

S/P2

Online University

Bryan Baker

has successfully completed

online training for

Collision Safety

Location: King Collision Center, 4950 N St Rd 7, Coconut Creek, FL 33073

Certificate Valid Thru: June 24, 2010

Course Access Expires: June 24, 2010

Daren Fristoe, President & COO

DRAFT

S/P2

Online University

Bryan Baker

has successfully completed

online training for

Collision Pollution Prevention

Location: King Collision Center, 4950 N St Rd 7, Coconut Creek, FL 33073

Certificate Valid Thru: April 14, 2011

Course Access Expires: June 24, 2010

Daren Fristoe, President & COO

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Florida Department of

Environmental Protection

Hazardous Waste Inspection Report

FACILITY INFORMATION:

Facility Name: Coconut Creek Mitsubishi

On-Site Inspection Start Date: 01/14/2010 **On-Site Inspection End Date:** 01/14/2010

ME ID#: 42068 **EPA ID#:** FLR000050419

Facility Street Address: 4950 N State Rd 7, Coconut Creek, Florida 33073

Contact Mailing Address: 4950 N State Road 7, Coral Springs, Florida 33073-3302

County Name: Broward **Contact Phone:** (954) 283-4440

NOTIFIED AS:

SQG (100-1000 kg/month)

INSPECTION TYPE:

Routine Inspection for SQG (100-1000 kg/month) facility

INSPECTION PARTICIPANTS:

Principal Inspector: Ken J Jarvis, Environmental Specialist

Other Participants: Bryan Baker, Body Shop Director; Michael See, Parts & Service Director

LATITUDE / LONGITUDE: Lat 26° 17' 46.0" / Long 80° 12' 7.0"

SIC CODE:

TYPE OF OWNERSHIP: Private

Introduction:

On January 14, 2010 the Florida Department of Environmental Protection (Department) conducted a Compliance Inspection at Coconut Creek Mitsubishi (CCM), in Coconut Creek, Fl. CCM is an auto dealership, located in a 10,000 square feet building in the Coconut Creek Auto Mall. The facility is on city water and sewer and employs 20 employees at this location. The facility has been operating under the present management since 1998.
The visit was hosted by Mr. Michael See, Parts and Service Director. The Department personnel conducting the visit was Ken Jarvis.

Process Description:

Waste stream consists of a parts washer, paint waste, used oil stored in a 275 gallon tank in secondary containment, used oil filters and used anti-freeze.

New Potential Violations and Areas of Concern:

Small Quantity Generator Checklist

Type:	Violation
Rule:	262.34(d)(5)(ii)
Question Number:	4.520
Question:	Is the following information posted near the telephone:
Explanation:	Emergency information not posted next to the telephone.
Corrective Action:	The generator must ensure that emergency information is posted next to the telephone.

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Type:	Violation
Rule:	262.34(d)(5)(iii)
Question Number:	4.310
Question:	Are facility personnel thoroughly familiar with proper waste handling and emergency procedures?
Explanation:	Employees' training records not available at the time of inspection.
Corrective Action:	The generator must ensure that all employees are thoroughly familiar with proper waste handling and emergency procedures and submit copy of training records to the Department

Type:	Area Of Concern
Rule:	262.11
Question Number:	4.1
Question:	Did the facility conduct a waste determination on all wastes generated?
Explanation:	TCLP analysis on paint booth filters was done five years ago.
Corrective Action:	Facility should have a new TCLP analysis done on the paint booth filters. Disposal into the trash should be made only if the analysis indicates that the filters are not hazardous for 8 RCRA heavy metals.

Summary of Potential Violations and Areas of Concern:

Potential Violations

Rule Number	Area	Date Cited	Explanation
Small Quantity Generator Checklist			
262.34(d)(5)(ii)		01/14/2010	Emergency information not posted next to the telephone.
262.34(d)(5)(iii)		01/14/2010	Employees' training records not available at the time of inspection.

Areas of Concern

Rule Number	Area	Date Cited	Explanation
Small Quantity Generator Checklist			
262.11		01/14/2010	TCLP analysis on paint booth filters was done five years ago.

Conclusion:

Based upon the inspection, CCM appears to generate less than 1,000 kilograms (kg) of hazardous waste per month and would be classified as a Small Quantity Generator (SQG) of hazardous waste.

At the conclusion of the inspection, the potential violations and required corrective action was discussed. The facility was not in compliance at the time of inspection and was given thirty days to submit requested documents and to return to compliance. The Department expects the potential violations

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to be corrected in an expeditious and safe manner.

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Signed:

A hazardous waste compliance inspection was conducted on this date, to determine your facility's compliance with applicable portions of Chapters 403 & 376, F.S., and Chapters 62-710, 62-730, 62-737, & 62 -740 Florida Administrative Code (F.A.C.). Portions of the United States Environmental Protection Agency's Title 40 Code of Federal Regulations (C.F.R.) 260 - 279 have been adopted by reference in the state rules under Chapters 62-730 and 62-710, F.A.C. The above noted potential items of non-compliance were identified by the inspector(s).

This is not a formal enforcement action and may not be a complete listing of all items of non-compliance discovered during the inspection.

Ken J Jarvis	Environmental Specialist	
PRINCIPAL INSPECTOR NAME	**PRINCIPAL INSPECTOR TITLE**	
	FDEP	1/14/2010
PRINCIPAL INSPECTOR SIGNATURE	**ORGANIZATION**	**DATE**

Bryan Baker	Body Shop Director
REPRESENTATIVE NAME	**REPRESENTATIVE TITLE**
NO SIGNATURE	Coconut Creek Mitsubishi
REPRESENTATIVE SIGNATURE	**ORGANIZATION**

Michael See	Parts & Service Director	
REPRESENTATIVE NAME	**REPRESENTATIVE TITLE**	
	Coconut Creek Mitsubishi	1/14/2010
REPRESENTATIVE SIGNATURE	**ORGANIZATION**	**DATE**

NOTE: By signing this document, the Site Representative only acknowledges receipt of this Inspection Report and is not admitting to the accuracy of any of the items identified by the Department as "Potential Violations" or areas of concern.

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Site 17 Publix Supermarket #637
5365 Lyons Rd
Facility ID: 9806977
Risk Rating: Low

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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
JUL 11 2007
By: MP

Storage Tank Facility Registration Form

Submit a completed form for the facility when Chapter 376.303, Florida Statutes, requires registration of storage tanks or compression vessels.

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	[ ] Tank Info Update/Correction

A. FACILITY INFORMATION

County: Broward	DEP Facility ID: Pending 9809424

Facility Name: PUBLIX SUPER MARKET #637
Facility Address: 5365 Lyons Road City: Coconut Creek Zip: 33073
Facility Contact: Store Manager Business Phone:954-427-0563
Facility Type(s): C – Fuel user/Non-retail NAICS Code: 4451 Financial Responsibility: Self-Insured

24 Hour Emergency Contact: _____ **Store Manager** _____ **Emergency Phone:** 954-427-0563

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: PUBLIX SUPER MARKETS, INC.	Facility - Responsible Person Relation Type:	Effective Date
Mail address: P O Box 407	[√] **Facility Account Owner (pays fees)**	
City, ST, Zip: Lakeland, FL 33802	Facility Account Owner information must be provided when the facility contains active or out of service storage tanks on site.	
Contact: Michael Hewett – Environmental Services Manager		
Telephone: 863-499-8562	**STCM Account Number (if known)**	**25164**
Identify other appropriate facility relationships for this party: [x] Facility Owner/Operator [ ] Property Owner [x] Storage Tank Owner		

Name:	Other owner, relationship type(s)	Effective Date
Mail address:	[ ] Facility Owner/Operator	
City, ST, Zip:	[ ] Property Owner	
Contact:	[ ] Storage Tank Owner	
Telephone:	[ ] Other:	

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	1000 gal	07/07	G	U	07/07	C,I,M,P	A, I	Q,F, 1

RECEIVED
DEPARTMENT OF ENVIRONMENTAL PROTECTION
2007 JUL 11 A
BUREAU OF PETROLEUM STORAGE SYSTEMS
BUREAU OFFICE

Certified Contractor (performing tank installation or removal): PowerSecure DBPR License No.: EC13003018

Registration Certification: **To the best of my knowledge and belief, all information submitted on this form is true, accurate, and complete.**

Michael Hewett – Environmental Services Manager [signature] 7/6/07
Printed Name & Title **Signature** **Date**

DEP 62-761.900(2)

DRAFT

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)

DATE ENTERED JUL 10 2007 By: MP

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

Please review *Registration Instructions* before completing the form. 98094424

Please check all that apply	[✓] New Registration	[ ] New Owner	[✓] New Tanks
	[ ] Facility Info Update/Correction	[ ] Owner Info Update/Correction	[ ] Tank Info Update/Correction

A. FACILITY INFORMATION

County: Broward 06	DEP Facility ID:

Facility Name: Publix Super Markets, Inc. #0637
Facility Address: 5365 Lyons Road City: Coconut Creek Zip: 33073
Facility Contact: Steve Williamson Business Phone: (919) 606-804
Facility Type(s): C NAICS Code: _____ Financial Responsibility: _____

24 Hour Emergency Contact: _____ **Emergency Phone:** (____) _____

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: Publix Super Markets, Inc. # 0637	Facility - Responsible Person Relation Type:	Effective Date
Mail address: 5365 Lyons Road	[√] **Facility Account Owner (pays fees)**	
City, ST, Zip: Coconut Creek, FL 33073	Facility Account Owner information must be provided when the facility contains active (in-use) storage tanks on site.	
Contact: Steve Williamson		
Telephone: 919-606-8044	**STCM Account Number (if known)**	
Identify other appropriate facility relationships for this party: [ ] Facility Owner/Operator [ ] Property Owner [ ] Storage Tank Owner		

Name: Publix Super Markets, Inc. # 0637	Other owner, relationship type(s)	Effective Date
Mail address: 5365 Lyons Road	[ ] Facility Owner/Operator	
City, ST, Zip: Coconut Creek, FL 33073	[ ] Property Owner	
Contact: Steve Williamson	[ ] Storage Tank Owner	
Telephone: 919-606-8044	[ ] Other:	

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	1000			T				

Certified Contractor (performing 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.**

J. Martinez NRS II Broward Cty DPEP — **Printed Name & Title**
J. A. Martinez — **Signature**
7/9/07 — **Date**

DEP 62-761.900(2)

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

DRAFT

Florida Department of Environmental Protection
Twin Towers Office Bldg. 2600 Blair Stone Road. Tallahassee, Florida 32399-2400
Division of Waste Management
Bureau of Petroleum Storage Systems

Storage Tank Facility Installation Site Inspection

DRAFT

Facility Information

Facility ID: 9809424
County: BROWARD
Inspection Date: 07/12/2007
Facility Name: PUBLIX SUPER MARKET #637
Facility Type: C - Fuel user/Non-retail
5365 LYONS RD
Of Inspected ASTs: 1
COCONUT CREEK, FL 33073
USTs: 0
Latitude: 29° 2' 46"
Mineral Acid Tanks: 0
Longitude: 84° 12' 21"
L/L Method: UNVR

Inspection Result

Result : In Compliance

Description: Facility is in compliance

No re-inspection needed for this Facility.

Financial Responsibility

Financial Responsibility: SELF-INSURANCE - LETTER FROM CHIEF FINANCIAL OFFICER

Insurance Carrier:

Effective Date: 03/31/2007 Expiration Date: 03/31/2008

Signatures

TKBWNR - BROWARD COUNTY ENVIRONMENTAL PROTECTION DEPT
Storage Tank Program Office

(954) 519-1260
Storage Tank Program Office Phone Number

JOSE MARTINEZ
Inspector Name

George Williamson
Facility Representative Name



Inspector Signature



Facility Representative Signature

Reviewed Records

Record Category	Record Type	From Date	To Date
Other	Current Local Government Permit, If Applicable	07/12/2006	07/12/2007

Inspection Comments

07/12/2007 The facility has applied for a tank modification permit and the stamped EPD document is on site.
Installation of one piece aboveground unit 1,000 gallons tank / generator.
Unit properly anchor to the concrete slab.
Contractor: Power Source.
Phone : 919-556-3056.
Photos were taken during the installation and location map develop.

Inspection Attachments

01. 1,000 gallons one piece aboveground tank/generator.



02. Switch connections panels.



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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: 9809424
County: BROWARD
Inspection Date: 09/10/2018
Facility Type: C - Fuel user/Non-retail
Facility Name: PUBLIX SUPER MARKET #637
5365 LYONS RD
COCONUT CREEK, FL 33073
# of Inspected ASTs: 1
USTs: 0
Mineral Acid Tanks: 0
Latitude: 26° 17' 50.45"
Longitude: 80° 11' 18.76"
LL Method: DPHO

Inspection Result:

Result: In Compliance

Signatures:

TKBWNR - BROWARD COUNTY ENVIRONMENTAL PROTECTION DEPT (954) 519-1259

Storage Tank Program Office and Phone Number

Aneese J Williams	Michael Diaco
Inspector Name	**Representative Name**
AW	
Inspector Signature **Principal Inspector** **BROWARD COUNTY ENVIRONMENTAL PROTECTION DEPT**	**Representative Signature** **Store Manager** **Publix Store #637**

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: SELF-INSURANCE - LETTER FROM CHIEF FINANCIAL OFFICER

Insurance Carrier:

Effective Date: 03/20/2018
Expiration Date: 03/20/2019

DRAFT

Facility ID: 9809424

Completed System Tests

Type	Date Completed	Results	Reviewed	Next Due Date	Comment
Annual Operability Test	03/12/2018	Passed	09/14/2018	03/12/2019	Rupture Switch
Annual Operability Test	03/12/2018	Passed	09/14/2018	03/12/2019	Krueger Gauge

Reviewed Records

Record Category	Record Type	From Date	To Date	Reviewed Record Comment
Two Years	Monthly Maint. Visual Examinations and Results	08/19/2016	08/06/2018	
Other	Current Local Government Permit, If Applicable	03/01/2017	09/10/2018	County License is current until 2/28/2019
Two Years	Certificate of Financial Responsiblity	03/20/2018	09/10/2018	Insurance Policy is current until 3/20/2019
Life Time	Written Release Detection Response Level Info	09/10/2018	09/10/2018	

Site Visit Comments

09/10/2018

Facility has (1) 1,000 gallon diesel sub-based double walled generator AST.
Tank looks in good condition.
No leaks or spills on or around the tank.
Fill port is under the generator, and color coded.
System has a spill bucket that was dry.
System has a Krueger leak gauge wired to power system.
System has a Cummings Power system/Power monitor panel as electronic release detection device to monitor the tanks rupture basin (interstitial).
An interstitial alarm is wired to the control panel of the generator with an audio and visual signal output.
Visual and audible alarms are functioning properly.
Remote Annunciator in a office behind customer service desk.

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Facility ID: 9809424

Reviewed cover page.
Reviewed site diagram.
Verified Coordinates.
County license is current.
FDEP placard is current.
Monthly visual inspections are available.
Certificate of Financial Responsibility Insurance is current.

Report sent to
Jessica Massanelli
Jessica.Massanelli@publix.com

Inspection Photos

Added Date 09/14/2018

Facility Photo



Added Date 09/14/2018

1,000 gallon diesel sub-base generator tank



DRAFT

Facility ID: 9809424

Added Date 09/14/2018

Fill and Krueger



Added Date 09/14/2018

Annunciator



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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 Closure Site Inspection Report

Facility Information:

Facility ID: 9809424 County: BROWARD Inspection Date:06/23/2021
Facility Type: C - Fuel user/Non-retail
Facility Name: PUBLIX SUPER MARKET #637 # of inspected ASTs: 2
5365 LYONS RD USTs: 0
COCONUT CREEK, FL 33073 Mineral Acid Tanks: 0
Latitude: 26° 17' 50.45"
Longitude: 80° 11' 18.76"
LL Method: DPHO

Inspection Result:

Result: In Compliance

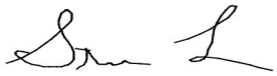
Signatures:

TKBWNR - BROWARD COUNTY ENVIRONMENTAL PROTECTION DEPT (954) 519-1259

Storage Tank Program Office and Phone Number

Steve Lecsaint

Inspector Name



Inspector Signature
Principal Inspector
BROWARD COUNTY ENVIRONMENTAL PROTECTION DEPT

Dylan Jackson

Representative Name

No Signature

Representative Signature
Raven Volt
Crew Foreman

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: SELF-INSURANCE - LETTER FROM CHIEF FINANCIAL OFFICER

Insurance Carrier:

Effective Date: 03/15/2020 Expiration Date: 07/15/2021

DRAFT

Completed System Tests

Type	Date Completed	Results	Reviewed	Next Due Date	Comment
Annual Operability - Overfill Protection	03/05/2020	Passed	07/28/2020	03/05/2021	Ring Power
Annual Operability - Release Detection	03/05/2020	Passed	07/28/2020	03/05/2021	Ring Power

Site Visit Comments

06/16/2021
Fac. ID#: 069809424
Facility: Publix Store #0637 @ 5365 LYONS RD, Coconut Creek, FL 33073

Contact: Max Levine 863-688-1188 x55902

Activity: Perform system closure by empty, clean, and remove existing one (1) 1,000-gallon sub-base diesel aboveground storage tank system, set aside existing generator for re-installation, piping and associated equipment and properly dispose of all sludge, discarded hazardous material and equipment as per Broward County Chapter 27, Article X Pollution Control Code and as per 62-762 F.A.C

Inspector: Steve Lecsaint 954-498-1718

On 06/16/2021 at 10:00 am I met with Dylan Jackson for a closure inspection. Prior to my arrival Alpha Omega cleaned out the tank, the manifest was available at the time of the inspection. Prior to my arrival the contractor removed one 1,000-gallon sub-base diesel aboveground storage tank system. Tank, piping and associated equipment were in good condition as per the contractor. There was no evidence of leaks or spillage coming from the existing tank judging by the condition of the slab.

Observation: Due to COVID-19 signatures from the public have been temporarily suspended.

TCAR NOTE: Shop Fab AST and system components not in contact with soil
Storage tank systems and system components not in contact with soil do not require a Closure Integrity Evaluation. However, the owner/operator shall submit a Limited Closure Report Form for ASTs, Form 62-762.901(8), in writing or electronic format to Broward County within 60 days of completion of the storage tank closure, replacement or change in service from a regulated substance to a non-regulated substance in accordance with 62-762.801 F.A.C.

If visual evidence of a discharge or piping is in contact with soil, use the following:

The owner/operator shall conduct an investigation at the time of closure in accordance with Instructions for Conducting Sampling During Aboveground Storage Tank Closure, July 2019 Edition. A Closure Report shall be submitted in writing or electronic format to Broward County within 60 days of completion of the closure, replacement, or change in service from a regulated substance to a non-regulated substance. The Closure Report shall be prepared in accordance with Instructions for Conducting Sampling During Aboveground Storage Tank Closure, July 2019 Edition and 62-762.801 F.A.C.

Inspection Photos

DRAFT

Added Date 06/23/2021

New 1,000-gal AST



DRAFT

Koenig, Eduardo

From: Reid, Alfred
Sent: Wednesday, August 18, 2021 4:25 PM
To: 'Brenda Williams'
Cc: 'jbaker@oakcityengineering.com'; Sainval, John; Gomez, Alfred; Younes, Ali; Koenig, Eduardo; 'jboone@coconutcreek.net'; 'Chantel Brown'; Max Levine
Subject: RE: Publix Store #0637 @ 5365 LYONS RD, Coconut Creek, FL 33073 - Close & remove (1) 1,000-gal subbase AST FAC ID# 069809424

Ms. Williams,

The Broward County Environmental and Consumer Protection Division (Division) has reviewed the Limited Closure Report Form for ASTs (LCRFA), received on August 2, 2021 for the above subject project/site. The LCRFA complies with the Florida Department of Environmental Protection's "Closure Requirements for Shop Fabricated Storage Tank Systems", Chapter 62-762 F.A.C., and note that the Division's Storage Tank Modification/Closure Permit#: ST-11600-21-01 and conditions are satisfied and now closed.

Please feel free to contact me with questions.

Regards.

ALFRED REID, P.E. LICENSED ENGINEER
Environmental Protection and Growth Management Department
ENVIRONMENTAL AND CONSUMER PROTECTION DIVISION
1 N University Dr, Suite 203 | Plantation, Florida 33324
954.519.1432 Office ▪ 954-818-7543 Cell ▪ 954.765.4804 Fax
Broward.org/Consumer | Facebook | Twitter | ePermits

Click here to conduct your Government Center West (Plantation) business electronically.

We value your feedback as a customer. You can comment on the quality of service you received by completing our survey. Thank you!

From: Sainval, John
Sent: Thursday, April 15, 2021 4:22 PM
To: 'Brenda Williams' <Brenda.Williams@publix.com>
Cc: 'jbaker@oakcityengineering.com' <jbaker@oakcityengineering.com>; Reid, Alfred <AREID@broward.org>; Gomez, Alfred <AGOMEZ@broward.org>; Younes, Ali <AYOUNES@broward.org>; Koenig, Eduardo <EKOENIG@broward.org>; 'jboone@coconutcreek.net' <jboone@coconutcreek.net>
Subject: Publix Store #0637 @ 5365 LYONS RD, Coconut Creek, FL 33073 - FAC ID# 069809424

Mrs./Ms. Williams,

The Storage Tank Modification License/Permit for the above referenced project is approved. Please see the attached Certificate of Approval To Modify Storage Tank License notice indicating the required permitted activities prior to and

DRAFT

after project completion. Note that final approval from the Planning and Development Management Division (PDMD) located on the first floor of our building is required before submitting this project to the respective City or Broward County Building Department(s). You may contact the PDMD at (954) 357-6666 for more information.

In addition, notification shall be provided to Broward County in writing or electronic format between 48 and 72 hours prior to the initiation of the construction or closure activity to confirm the date and time of the scheduled activities. Please notify Mr. John Sainval, and Mr. Alfred Reid at jsainval@broward.org and areid@broward.org respectively.

Notice to Owners and Engineers modifying aboveground tank systems:
One set of engineering signed and sealed 'as-built' drawings shall be submitted to the Environmental and Consumer Protection Division within thirty (30) days after the installation activity is completed. The engineering 'as-built' drawings of the work completed, along with any changes made to the original specifications during the construction process, shall include all construction and equipment design specifications including exact dimensions, geometry and locations of the storage tanks or integral piping installed.

TCAR NOTE: Shop Fab AST and system components not in contact with soil:
Storage tank systems and system components not in contact with soil do not require a Closure Integrity Evaluation. However, the owner/operator shall submit a Limited Closure Report Form for ASTs, Form 62-762.901(8), in writing or electronic format to Broward County within 60 days of completion of the storage tank closure, replacement or change in service from a regulated substance to a non-regulated substance in accordance with 62-762.801 F.A.C.

If visual evidence of a discharge or piping is in contact with soil, use the following:

The owner/operator shall conduct an investigation at the time of closure in accordance with Instructions for Conducting Sampling During Aboveground Storage Tank Closure, July 2019 Edition. A Closure Report shall be submitted in writing or electronic format to Broward County within 60 days of completion of the closure, replacement, or change in service from a regulated substance to a non-regulated substance. The Closure Report shall be prepared in accordance with Instructions for Conducting Sampling During Aboveground Storage Tank Closure, July 2019 Edition and 62-762.801 F.A.C.

Regards,

JOHN SAINVAL, STAFF ENGINEER
Environmental Protection and Growth Management Department
ENVIRONMENTAL AND CONSUMER PROTECTION DIVISION
1 N University Dr, Suite 203 | Plantation, Florida 33324
954.519.1229 Office ▪ 954.405.5475 Cell ▪ 954.765.4804 Fax
Broward.org/Consumer| Twitter | Facebook | Go Solar | ePermits

Click here to conduct your Government Center West (Plantation) business electronically.

We value your feedback as a customer. You can comment on the quality of service you received by completing our survey. Thank you!

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BROWARD COUNTY, FL - In response to COVID-19 and to help reduce its spread, Broward County is reminding residents of various ways they can receive local government services without face-to-face interactions in government facilities. These alternatives are being offered to help protect the public and County employees. Until further notice, the following Government Center West (GCW) services are available only through these alternate means; public foot traffic for these transactions will not be an option until future notice. (GCW is located at 1 N. University Drive, Plantation Florida.)

Building Code Services, Consumer Protection, Chauffeur Registration, Childcare Licensing, Environmental Permitting, Planning and Development Management, and Code and Zoning.

All these services can be accomplished through Broward's GCW Virtual Operations. Visit Broward.org/Consumer and select GCW Virtual Operations for more information. You may also call the Broward County Call Center at 311 or 954-831-4000, Toll-free: 833-311-BRWD (2793)

DRAFT

Resilient Environment Department
ENVIRONMENTAL PERMITTING DIVISION
1 North University Drive, Mailbox 201, Plantation, Florida 33324 • 954-519-1483 • FAX 954-519-1412

October 4, 2022

Brenda Williams
Publix #637
5365 Lyons Rd
Coconut Creek, FL, 33073

RE: **In Compliance**
Publix #637, 5365 Lyons Rd, Coconut Creek, 33073
DEP Facility ID#: 069809424
Broward County – Storage Tank Program

Dear Brenda Williams:

A storage tanks inspection and file review were conducted at the above noted facility on or about 10/3/2022, by the Broward County Environmental Permitting Division, 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 Jennifer Maur at 954-395-4009 or jmaur@broward.org.

Sincerely,

Jennifer Maur
Natural Resource Specialist

Enclosure

cc:

DRAFT

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: 9809424 County: BROWARD Inspection Date:10/03/2022
Facility Type: C - Fuel user/Non-retail
Facility Name: PUBLIX SUPER MARKET #637 # of inspected ASTs: 1
5365 LYONS RD USTs: 0
COCONUT CREEK, FL 33073 Mineral Acid Tanks: 0
Latitude: 26° 17' 50.45"
Longitude: 80° 11' 18.76"
LL Method: DPHO

Inspection Result:

Result: In Compliance

Signatures:

TKBWNR - BROWARD COUNTY ENVIRONMENTAL PROTECTION DEPT (954) 519-1259

Storage Tank Program Office and Phone Number

Jennifer Maur
Inspector Name



Inspector Signature
Principal Inspector
BROWARD COUNTY ENVIRONMENTAL PROTECTION DEPT

Brenda Williams (brenda.williams@publix.com)
Representative Name

No Signature
Representative Signature

Publix

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: SELF-INSURANCE - LETTER FROM CHIEF FINANCIAL OFFICER

Insurance Carrier:

Effective Date: 12/26/2021 Expiration Date: 04/24/2023

Completed System Tests

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Type	Date Completed	Results	Reviewed	Next Due Date	Comment
Annual Operability - Overfill Protection	03/14/2022	Passed	10/04/2022	03/14/2023	
Annual Operability - Release Detection	03/14/2022	Passed	10/04/2022	03/14/2023	

Reviewed Records

Record Category	Record type	From Date	To Date	Reviewed Record Comment
Other	Current Local Government Permit, If Applicable	06/16/2022	10/04/2022	Broward County License, exp 6/30/23
Three Years	Monthly Maint. Visual Examinations and Results	09/06/2019	09/01/2022	
Three Years	Certificate of Financial Responsiblity	12/26/2021	10/04/2022	exp 4/24/23

Site Visit Comments

10/03/2022
Reviewed cover page
Reviewed site diagram
Verified Coordinates
County license - current
FDEP placard - current
Certificate of Financial Responsibility – current
Monthly visual inspections – provided

Testing
Release detection – provided
Overfill - provided

Facility has 1- 1000-gal sub-based double walled aboveground diesel generator tank.
Tank observed in good condition, no leaks or spills observed on or around the tank.
Tank has a fill-spill bucket was properly labeled per API standards with diesel sticker. Small amount of liquid in fill-spill bucket needs to be removed.
Tank has a Kreuger fuel level gauge adjacent to the spill bucket.
Piping under the generator not in contact with soil.
System has a power system monitoring panel as electronic release detection device to monitor the tanks rupture basin (interstitial) and an overfill annunciator located next to the fill-spill box.

Toured with Stanley

Report emailed to Brenda Williams (brenda.williams@publix.com)

Note: A signature was not recorded on the inspection report due to current area health issues dealing with COVID-19.

Inspection Photos

DRAFT

Added Date 10/04/2022

Store Front



Added Date 10/04/2022

Generator and Tank



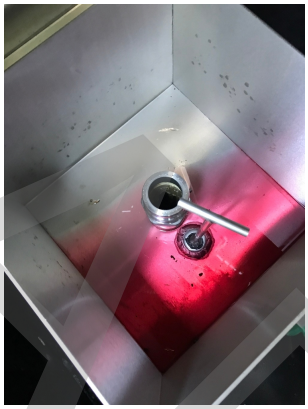
Added Date 10/04/2022

Fill-Spill Box



Added Date 10/04/2022

Fill-Spill Box Interior



Added Date 10/04/2022

Krueger Gauge



DRAFT

Site 18 Five Point Cleaners
5379 Lyons Rd
Facility ID: 9806977
Risk Rating: Low

DRAFT

Information Portal
Nexus
Enterprise Solutions

DEP Facility/Site Details and Associated Documents

Facility/Site Details

Facility/Site ID = 9806977
Facility/Site Name = FIVE POINT CLEANERS
Address = 5379 LYONS RD #200
City = COCONUT CREEK
County = BROWARD
District = SED

For more information regarding this facility, navigate to the following DEP webpage and identify your district contact:
http://www.dep.state.fl.us/secretary/dist/

Records on this page = 0 of 0

There are no documents that meet your criteria.

Disclaimer: The Florida Department of Environmental Protection (FDEP) has made a reasonable effort to ensure that the information provided is up-to-date and comprehensive but cannot guarantee the accuracy or completeness of the data. Any specific, missing information may be obtained through a public records request. For more information visit our Public Records web site.

DRAFT

Site 19 Adios Golf Club
7740 NW 39th Avenue
Facility ID: 8838227
Risk Rating: Low

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RECEIVED

JAN 14 1988

Bureau of
Storage
Stations

Department of Environmental Regulation
FEDERAL/STATE STORAGE TANK NOTIFICATION FORM
Form 17-61.090(3)

PLEASE PRINT OR TYPE

(1) DER facility number (if known) 508838227 (2) County code 50

(3) This information is: original X data revision ___

(4) Facility type (see code list (4) on back) C- Business

(5) Facility name ADIOS Golf Club 7740 N.W.
Street address/city/state/zip 39th Ave Coconut Creek, FL 33067

(6) Operator Same As Above Telephone # (305) 421-6203
Mailing address/city/state/zip ___
New Operator date (only for change of Operator) ___/___/___

(7) Company/Person owning tank(s) and piping Same As Above
Company address/city/state/zip ___
Contact Person DAVID LAUGHLIN Telephone # (305) 971-9620
New Owner date (only for change of Owner) ___/___/___

(8) Location (optional): Latitude ___°___'___" Longitude ___°___'___"
Section ___ Township ___ Range ___

(9) Do you have any DER non-registered aboveground tanks holding any of these substances at your facility? Yes ___ No X

PLEASE FILL OUT ONE LINE FOR EACH TANK WITH CODES LISTED ON BACK

Fill out columns (10) through (17) for tanks in use, and (10) through (19) for tanks out of use

(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
1	1000	A	1983	C	D		A		
2	1000	D	1983	C	D		A		

To the best of my knowledge and belief all information submitted on this form is true, accurate and complete.

DAVID LAUGHLIN - Operator Golf Course Supt. David W Laughlin 12-31-87

Print name and title of owner, operator or authorized person — Signature — Date

DER FORM 17-61.090(3) 10/09/86 (1/2)

DRAFT

ATRP

REIMBURSEMENT ELIGIBILITY REVIEW CHECKLIST/ROUTING SLIP

Site ADIOS GOLF CLUB Fac.# 068838227 Proj. Manager B. TRUMAN

Latitude 26 / 07 / 45 Longitude 80 / 14 / 40

INITIALS	DATE	
VLC	3/31/91	Inspection Date 4/29/91
VLC	3/25/92	Review Documentation (Use Documentation List and Reimbursement Eligibility Worksheet)
VLC	3/25/92	Prepare Letter or Final Order (Check Appropriate line)

_____ 1. Insufficient Documentation (Generic.3)
_____ 2. Eligible (Generic.5, enclose Estimate Form and Reimbursement Application Form)
✓ 3. Ineligible (Generic.6) (2)

VLC	3/25/92	Review Letter (Check each line after verification of information)

✓ 1. Proper Addressee
✓ 2. Facility Name
✓ 3. Facility Address
✓ 4. DER Facility Number (if no number, see Supervisor)
_____ 5. CC: All Other Applicants
✓ 6. CC: District Inspector
✓ 7. CC: Local Program (if applicable)
_____ 8. Switch "P" to "E", or "I" on file

INELIGIBLE ORDERS ONLY
_____ 1. Switch "P" to "I" on file

_____	_____	Signature

_____ Bureau Chief (Ineligible Orders Only-Gen.6)
_____ Project Manager (Insufficient Documentation-Gen.3)

NS	3/25	Eligible signature stamp (Gen.5) and Mail Copies (Nora)
M.T.	APR 8 1992	MAPPER Update
_____	_____	File Copy of Letter or Final Order to Log Out)
_____	_____	Ineligible (STI048) Data Entry

ELIGIBLE
_____ 1. Eligible (STI048) Data Entry
_____ 2. Mailing List update

_____ Return to File Room

DRAFT

Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

ABANDONED TANK RESTORATION PROGRAM (ATRP)
APPLICATION FORM
Application Deadline March 31, 1991

Use this form to apply for restoration assistance eligibility of a site contaminated by petroleum products from abandoned storage systems.

DRAFT

Please Print or Type
Put "X" where answer is unknown.

1. Business/Site Name: ADIOS GOLF CLUB, INC.

   Business/Site Operator: ADIOS GOLF CLUB, INC.

   Business/Site Owner: ADIOS GOLF CLUB, INC. Property Owner: ADIOS GOLF CLUB, INC.

   Business/Site Address: 7740 NW 39TH AVE., COCONUT CREEK, FL 33073

   Applicant's Telephone Number: (407) 429-0990 (Business) / N/A (Home) County: BROWARD

   Applicant's Mailing Address: P. O. BOX 8568, DEERFIELD BEACH, FL 33443

2. Date of contamination discovery: MARCH 27, 1991
   (Attach Copy of Discharge Notification Form)

3. Date the petroleum storage system was taken out of service IN THE PROCESS

4. Has the petroleum storage system been properly closed (removed or filled with sand or concrete) in accordance with DER rules? IN THE PROCESS

5. Is the site registered with DER? If so, DER Facility Number 08838227

   If not, fill in the information listed below for each tank at the site.

Tank(s)	Size(s) Gallons	Underground (U) or Aboveground (A)	Tank Contents When in Service	Date of Last Use

6. To the best of my knowledge and belief, all information submitted on this form is true, accurate and complete.

   Signature of Person Completing Form/Title — 3-29-91 Date

   ARTHUR COBB
   Name Typed or Printed

Florida Department of Environmental Regulation
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DRAFT

ABANDONED TANK RESTORATION AFFIDAVIT FORM

In 1990, the Florida Legislature established the Abandoned Tank Restoration Program i Chapter 376.3072, Florida Statutes. In order to be eligible for the Abandoned Tan Restoration Program, a site owner or operator must sign this affidavit to affirm that th site is in compliance with the closure requirements of the Department's Storage Tank Rul (Chapter 17-61, Florida Administrative Code) and Chapter 376, Florida Statutes and that h or she has read and is familiar with these rules and statutes.

State of Florida
County of BROWARD

I, ARTHUR COBB, hereby affirm that: the site listed on the attached application is in the process of undergoing proper closure procedures in order to affirm that:
(Name of owner or operator)

The abandoned storage system, as defined in Chapter 376.3072, Florida Statutes, locate at the site listed on the attached application, is in compliance with applicabl provisions relating to stationary tanks in Chapter 376.303, Florida Statutes and Florid Administrative Code Rule 17-61, including but not limited to those provisions for:

(a) proper closure of aboveground petroleum storage systems;
(b) proper closure of underground petroleum storage systems;
(c) notification of a discharge of a pollutant from or in connection with the operation of a petroleum storage system;
(d) site no longer used to store petroleum products for consumption, use or sale.

In addition, the closure process is being conducted in order to later affirm that:

I, Arthur Cobb, have read Chapter 376, Florida Statutes and Florid Administrative Code Rule 17-61, and the site on the attached application meets th requirements for participation in the Abandoned Tank Restoration Program as described i Chapter 376.3072, Florida Statutes and is not otherwise eligible for cleanup pursuant t Section 376.307(a), F.S., the EDI Program or Section 376.3072, F.S., the Florida Petroleu Liability Insurance and Restoration Program.

(Signature of owner or operator)

General Manager
(Title of owner or operator)

Subscribed and sworn to before me this 29th day of March, 1991.

(Signature and title of notary)

(Official Seal)

My commission expires Notary Public, State of Florida
My Commission Expires Oct. 22, 1993
Bonded Thru Troy Fain - Insurance Inc.

Florida Department of Environmental Regulation
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DER Form # 17-761.900(1)
Form Title Discharge Reporting Form
Effective Date December 10, 1990
DER Application No _____ (If Assigned by DER)

Discharge Reporting Form

Use this form to notify the Department of Environmental Regulation of:

1. Results of tank tightness testing that exceed allowable tolerances within ten days of receipt of test result.
2. Petroleum discharges exceeding 25 gallons on pervious surfaces as described in Section 17-761.460 F.A.C. within one working day of discovery.
3. Hazardous substance (CERCLA regulated), discharges exceeding applicable reportable quantities established in 17-761.460(2) F.A.C., within one working day of the discovery.
4. Within one working day of discovery of suspected releases confirmed by: (a) released regulated substances or pollutants discovered in the surrounding area, (b) unusual and unexplained storage system operating conditions, (c) monitoring results from a leak detection method or from a tank closure assessment that indicate a release may have occurred, or (d) manual tank gauging results for tanks of 550 gallons or less, exceeding ten gallons per weekly test or five gallons averaged over four consecutive weekly tests.

Mail to the DER District Office in your area listed on the reverse side of this form

PLEASE PRINT OR TYPE
Complete all applicable blanks

1. DER Facility ID Number: 06 508838227 2. Tank Number: 2 total 3. Date: 3/29/91
4. Facility Name: Adios Golf Club, Inc.
   Facility Owner or Operator: Adios Golf Club, Inc.
   Facility Address: 7740 NW 39th Ave., Coconut Creek, FL 33073
   Telephone Number: (407) 429-0990 County: Broward
   Mailing Address: 7740 NW 39th Ave., Coconut Creek, FL 33073
5. Date of receipt of test results or discovery: March 27, 1991 month/day/year
6. Method of initial discovery. (circle one **only**)
   A. Liquid detector (automatic or manual)
   B. Vapor detector (automatic or manual)
   C. Tightness test (underground tanks only).
   D. Emptying and Inspection.
   E. Inventory control.
   F. Vapor or visible signs of a discharge in the vicinity.
   G. Closure: _____ (explain)
   H. Other: Preliminary Assessment (FID)
7. Estimated number of gallons discharged: Unknown
8. What part of storage system has leaked? (circle all that apply) A. Dispenser B. Pipe C. Fitting D. Tank (E) Unknown
9. Type of regulated substance discharged. (circle one)
   A. leaded gasoline
   (B) unleaded gasoline
   C. gasohol
   D. vehicular diesel
   F. aviation gas
   G. jet fuel
   L. used/waste oil
   M. diesel
   O. new/lube oil
   V. hazardous substance includes pesticides, ammonia, chlorine and derivatives (write in name or Chemical Abstract Service CAS number) _____
   Z. other (write in name) _____
10. Cause of leak. (circle all that apply)
    (A) Unknown
    B. Split
    C. Loose connection
    D. Corrosion
    E. Puncture
    F. Installation failure
    G. Spill _____
    H. Overfill
    I. Other (specify) _____
11. Type of financial responsibility. (circle one)
    A. Third party insurance provided by the state insurance contractor
    B. Self-insurance pursuant to Chapter 17-769.500 F.A.C.
    (C) Not applicable
    D. None
12. **To the best of my knowledge and belief all information submitted on this form is true, accurate, and complete.**

Arthur Cobb
Printed Name of Owner, Operator or Authorized Representative

Signature of Owner, Operator or Authorized Representative 3-29-91

DRAFT

NOT EDI PLIRP/ATRP

Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DER Form # 17-761.900(1)
Form Title Discharge Reporting Form
Effective Date December 10, 1990
DER Application No. _____ (Filed in by DER)

RECEIVED D.E.R.

		Copy	✓
		FPLIRP	
BCEQCB	✓	BWC	
PBERM		Other	

Remarks:

Discharge Reporting Form

STORAGE TANK REGULATION

2354

Use this form to notify the Department of Environmental Regulation of:

1. Results of tank tightness testing that exceed allowable tolerances within ten days of receipt of test result.
2. Petroleum discharges exceeding 25 gallons on pervious surfaces as described in Section 17-761.460 F.A.C. within one working day of discovery.
3. Hazardous substance (CERCLA regulated), discharges exceeding applicable reportable quantities established in 17-761.460(2) F.A.C., within one working day of the discovery.
4. Within one working day of discovery of suspected releases confirmed by: (a) released regulated substances or pollutants discovered in the surrounding area, (b) unusual and unexplained storage system operating conditions, (c) monitoring results from a leak detection method or from a tank closure assessment that indicate a release may have occurred, or (d) manual tank gauging results for tanks of 550 gallons or less, exceeding ten gallons per weekly test or five gallons averaged over four consecutive weekly tests.

OCT 8 1991
BY JJ

Mail to the DER District Office in your area listed on the reverse side of this form

068838227

PLEASE PRINT OR TYPE
Complete all applicable blanks

1. DER Facility ID Number: 508838227 2. Tank Number: 2 total 3. Date: 3/29/91
4. Facility Name: Adios Golf Club, Inc.
   Facility Owner or Operator: Adios Golf Club, Inc.
   Facility Address: 7740 NW 39th Ave., Coconut Creek, FL 33073
   Telephone Number: (407) 429-0990 County: Broward
   Mailing Address: 7740 NW 39th Ave., Coconut Creek, FL 33073
5. Date of receipt of test results or discovery: March 27, 1991 month/day/year
6. Method of initial discovery. (circle one only)
   A. Liquid detector (automatic or manual)
   B. Vapor detector (automatic or manual)
   C. Tightness test (underground tanks only).
   D. Emptying and Inspection.
   E. Inventory control.
   F. Vapor or visible signs of a discharge in the vicinity.
   G. Closure: _____ (explain)
   H. Other: Preliminary Assessment (FID)
7. Estimated number of gallons discharged: Unknown
8. What part of storage system has leaked? (circle all that apply) A. Dispenser B. Pipe C. Fitting D. Tank (E) Unknown
9. Type of regulated substance discharged. (circle one)
   A. leaded gasoline
   (B) unleaded gasoline
   C. gasohol
   D. vehicular diesel
   F. aviation gas
   G. jet fuel
   L. used/waste oil
   M. diesel
   O. new/lube oil
   V. hazardous substance includes pesticides, ammonia, chlorine and derivatives (write in name or Chemical Abstract Service CAS number) _____
   Z. other (write in name) _____
10. Cause of leak. (circle all that apply)
    (A) Unknown
    B. Split
    C. Loose connection
    D. Corrosion
    E. Puncture
    F. Installation failure
    G. Spill _____
    H. Overfill
    I. Other (specify) _____
11. Type of financial responsibility. (circle one)
    A. Third party insurance provided by the state insurance contractor
    B. Self-insurance pursuant to Chapter 17-769.500 F.A.C.
    (C) Not applicable
    D. None
12. **To the best of my knowledge and belief all information submitted on this form is true, accurate, and complete.**

Arthur Cobb
Printed Name of Owner, Operator or Authorized Representative

[signature] 3-29-91
Signature of Owner, Operator or Authorized Representative

Northwest District | Northeast District | Central District | Southwest District | South District | Southeast District

DRAFT

FLORIDA PETROLEUM LIABILITY INSURANCE AND RESTORATION PROGRAM COMPLIANCE CHECKLIST

PLIRP/ATRP

DATE 4-29-91
DER Facility # 06B838227
Facility Name ADIOS GOLF CLUB
Facility Address 7740 NW. 39 AVE. COCONUT CREEK FL. 33067

Contact Person/Telephone ARTHUR COBB
Latitude 26-01-45 Longitude 80-14-40

For the items below that may indicate non-compliance or gross negligence, please explain in detail and provide supporting documentation.

YES NO UNKNOWN

I. Compliance with Chapter 376.3072, Florida Statutes and Chapter 17-769, F.A.C.

? | | X | | 1. Was any contamination discovered prior to January 1, 1989? If yes, explain.

X | | | 2. Petroleum Liability Insurance Program Affidavit form completed? If yes, give date notarized. 3-29-91

| | X | | 3. Is the site insured by FPLIPA? If not, supply the carrier insured with, or other type of financial responsibility mechanism used. SELF INSURED

| | X | | 4. Restoration Coverage Notice of Eligibility issued? If yes, give effective date.

| | X | | 5. Has site access ever been denied?

X | | | 6. Has a Storage Tank Program compliance inspection ever been performed for this facility? If yes, give the date of the most recent inspection and supply a copy. 4-29-91

X | | | 7. Has the suspected petroleum storage system component responsible for the discharg been removed from service within 3 days of discovery. If no, explain.

X | | | 8. Have steps to obtain cleanup services been initiated within 3 days of the discharg discovery? If no, explain.

II. Information Required for Site Scoring and Ranking

| | X | | 9. Is there evidence of a contamination problem? If yes, explain in comment section.

If yes to 9, check one:

| | | | a. Two or more monitoring wells/boreholes show >2" free product.

| | | | b. Only 1 monitoring well shows >2" free product or monitoring wells show <2" free product or petroleum sheen.

DER Form No.

DRAFT

Facility # 068838227
Date 4-29-91

If yes to 9, check one:

[ ] c. Monitoring wells are contaminated but contain no free product (vapors only).

[ ] d. Soil contamination and/or recent product loss.

Check one:

10. Contamination Product Type

[ ] a. Light petroleum (kerosene, gasoline, aviation fuel, etc.)

[ ] b. Heavy petroleum (fuel oil, diesel or similar petroleum products)

[ ] c. Unknown or other _____

Check those that apply:

11. Potable water

[X] a. Within 1/2 mile: Large wells >100,000 gpd
1. Indicate direction: INSIDE PUBLIC WELLFIELD
2. Estimate distance: _____

[ ] b. Within 1/4 mile: small wells <100,000 gpd
1. Indicate direction: _____
2. Estimate distance: _____

[ ] c. Surface water body used as a public water system.

12. Indicate below proximity to population centers: (restaurant, shopping center, house, etc.)

[ ] a. < 500 feet: Indicate distance: _____

[X] b. > 500 feet: Estimate distance: 1000 FEET (-HOUSE)

Please indicate how the site scoring and ranking information was determined. INFORMATION GIVEN BY ARTHUR COBB - 407-425-0990

Comments: THEY ARE WAITING FOR THE RESULTS FROM THE TEST DONE BY NUTTING ENVIRONMENTAL (407) 932-7200 FOR THE CLOSURE.
I CHECKED THE MONITORING WELLS - NO ODOR DETECTED NO PRODUCT OBSERVED.

JOSE A. MARTINEZ
Compliance Inspector

4-29-91
Inspection Date

DER District: _____ (or) Local Program: ONLR BROWARD

DER Form No.

DRAFT

FLORIDA PETROLEUM LIABILITY INSURANCE AND RESTORATION PROGRAM COMPLIANCE CHECKLIST

DATE 4-29-91
DER Facility # 068838227
Facility Name ADIOS GOLF CLUB
Facility Address 7740 NW. 39 AVE. COCONUT CREEK FL. 33067

Contact Person/Telephone ARTHUR COBB
Latitude 26-01-45 Longitude 80-14-40

For the items below that may indicate non-compliance or gross negligence, please explain in detail and provide supporting documentation.

YES	NO	UNKNOWN	I. Compliance with Chapter 376.3072, Florida Statutes and Chapter 17-769, F.A.C.
? ☐	☒	☐	1. Was any contamination discovered prior to January 1, 1989? If yes, explain.
☒	☐	☐	2. Petroleum Liability Insurance Program Affidavit form completed? If yes, give date notarized. 3-29-91
☐	☒		3. Is the site insured by FPLIPA? If not, supply the carrier insured with, or other type of financial responsibility mechanism used. SELF INSURED
☐	☒	☐	4. Restoration Coverage Notice of Eligibility issued? If yes, give effective date.
☐	☒		5. Has site access ever been denied?
☒	☐		6. Has a Storage Tank Program compliance inspection ever been performed for this facility? If yes, give the date of the most recent inspection and supply a copy. 4-29-91
☒	☐		7. Has the suspected petroleum storage system component responsible for the discharg been removed from service within 3 days of discovery. If no, explain.
☒	☐		8. Have steps to obtain cleanup services been initiated within 3 days of the discharg discovery? If no, explain.

II. Information Required for Site Scoring and Ranking

☐	☒	9. Is there evidence of a contamination problem? If yes, explain in comment section.

If yes to 9, check one:

☐ a. Two or more monitoring wells/boreholes show >2" free product.

☐ b. Only 1 monitoring well shows >2" free product or monitoring wells show <2" free product or petroleum sheen.

DRAFT

Facility # 068838227
Date 4-29-91

If yes to 9, check one:

[ ] c. Monitoring wells are contaminated but contain no free product (vapors only).

[ ] d. Soil contamination and/or recent product loss.

Check one:

10. Contamination Product Type

[ ] a. Light petroleum (kerosene, gasoline, aviation fuel, etc.)

[ ] b. Heavy petroleum (fuel oil, diesel or similar petroleum products)

[ ] c. Unknown or other _____

Check those that apply:

11. Potable water

[X] a. Within 1/2 mile: Large wells >100,000 gpd
1. Indicate direction: INSIDE PUBLIC WELLFIELD
2. Estimate distance: _____

[ ] b. Within 1/4 mile: small wells <100,000 gpd
1. Indicate direction: _____
2. Estimate distance: _____

[ ] c. Surface water body used as a public water system.

12. Indicate below proximity to population centers: (restaurant, shopping center, house, etc.)

[ ] a. < 500 feet: Indicate distance: _____

[X] b. > 500 feet: Estimate distance: 1000 FEET (-HOUSE)

Please indicate how the site scoring and ranking information was determined. INFORMATION GIVEN BY ARTHUR COBB - 407-429-0990

Comments: THEY ARE WAITING FOR THE RESULTS FROM THE TEST DOING BY NUTTING ENVIRONMENTAL (407) 932-7200 FOR THE CLOSURE.
I CHECKED THE MONITORING WELLS - NO ODOR DETECTED NO PRODUCT OBSERVED.

JOSE A. MARTINEZ
Compliance Inspector

4-29-91
Inspection Date

DER District: _____ (or) Local Program: ONLR BROWARD

DRAFT

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
POLLUTANT STORAGE TANK SYSTEM
INSPECTION REPORT FORM - COVER PAGE

#2354

FACILITY ID NO.: (068838227
FACILITY NAME: ADIOS GOLF CLUB
FACILITY LOCATION: 7740 NW 39TH AVE
OPERATOR: ADIOS GOLF CLUB
OWNER: ADIOS GOLF CLUB
OWNER ADDRESS: 7740 NW 39TH AVE
OWNER CONTACT: DAVID LAUGHLIN

COUNTY: BROWARD
COCONUT CREEK
PHONE: (305) 421-6203
PHONE: (305) 971-9120
COCONUT CREEK FL 33067
OWNER CHANGE DATE / /??

LATITUDE: 26-07-45 LONGITUDE: 80-14-40 SECTION 32 TOWNSHIP 47S RANGE 42E

TANK #	SIZE	CONTENT	INSTALL DATE	U/A OR IN-CONTACT	TANK CONSTRUCTION	INTEGRAL PIPING	MONITORING SYSTEM	TANK STAT
1	1000	A	XX/83	U	C	D	Y	U
2	1000	D	XX/83	U	C	D	Y	U

COMMENTS:
> STOC-2346 + STC-1974
> M.W. NO ODOR DETECTED - NO PRODUCT OBSERVED
> TANKS STILL IN PLACE
> TANKS WERE EMPTY FOR A MONTH AGO.

INSPECTION TYPE
__ COMPLAINT RESPONSE
✓ INITIAL
__ EDI
__ PUBLIC WELL FIELD
__ REINSPECTION
__ INSTALLATION
__ TANK REMOVAL
__ UNREGISTERED

FACILITY INFORMATION
__ ABANDONED
__ ABOVEGROUND
__ GOVT.-FEDERAL
__ GOVT.-OTHER
✓ NON-RETAIL
__ RETAIL
__ RETROFIT (M OR O)
__ RETROFIT (L OR R)

DER DISTRICT: OR LOCAL PROGRAM:

[signature] 4-29-91
INSPECTOR'S SIGNATURE & DATE

ONRP-BROWARD
[signature] 29 APRIL 91
FACILITY CONTACT'S SIGNATURE & DATE

VIOLATIONS MUST BE CORRECTED BY: NEXT ROUTINE INSPECTION ___ OR BY: __/__/__ ___
MO DY YR

DER FORM 61-01-[illegible]

DRAFT

Name ADIOS GOLF COURSE
Facility # 06BB2B227
Date 4-24-91

UNDERGROUND STORAGE TANK
COMPLIANCE INSPECTION FORM

		Yes	No	Unk	N/A
I. REGISTRATION/NOTIFICATION: Comments:					
1. Facility has registered all applicable tanks on site; 17-761.400	1.	✓			
2. Current registration placard is properly displayed; 17-761.410(6)	2.	✓			
Proper notification has been made for the following; 17-761.450:					
3. Proper closure (30 days prior); (1)(a)	3.	✓			
4. Change of ownership (30 days after); (1)(b)	4.				✓
5. Upgrading, replacement or installation (10 days prior); (1)(c)	5.				✓
6. Change of tank status (in service/out of service), (within 30 days); (1)(d)	6.	✓			
7. Change of facility status (e.g. substances stored), (within 30 days);(1)(e)	7.	✓			
8. Change of method of financial responsibility (within 30 days); (3)	8.				✓
9. Start of closure, upgrades or installation (24 hr. verbal or written); (4)	9.				✓
II. RECORD KEEPING: Comments: TANKS WERE EMPTY WAITING FOR TO BE REMOVED					
10. All records were maintained for two (2) years and were available for inspection within five (5) working days; 17-761.710(1)	10.				✓
11. Some but not all records were maintained for two (2) years and were available for inspection within five (5) working days; 17-761.710(1)	11.				✓
III. REPORTING/DISCHARGE RESPONSE/REPAIRS: Comments:					
Proper reporting requirements been met for the following; 17-761.460:					
12. Results of tightness test; (1)	12.				✓
13. Any spill, overfill, or other discharge within one working day of discovery; (2)	13.				✓
14. Suspected releases within one working day of discovery; (3)(a), (b)	14.				✓
15. Confirmed releases (positive response of a release detection device within one working day of discovery); (3)(c)	15.	✓			
The owner or the operator of the system which has discharged has:					
16. Taken it out-of-service; 17-761.700(1), had it repaired or replaced; .700, or properly closed it; .820(1)	16.	✓			
17. Removed any regulated substances been from the system; 17-761.820(1)	17.	✓			
18. Tightness tested all repaired components before placing them back in service; 17-761.700(6)	18.				✓
19. Had repairs or replacements performed by a certified contractor;					
20. Had tightness tests performed by certified contractor; 17-761.200	20.				✓
21. Begun initial corrective actions for a release; 17-761.820(2)	21.				✓
IV. INVENTORY REQUIREMENTS: Comments:					
22. All inventory requirements maintained in accordance with 17-761.720(1)	22.				✓
23. Some, but not all inventory requirements maintained in accordance with 17-761.720(1)	23.				✓
V. PERFORMANCE STANDARDS/CATHODIC PROTECTION Comments:					
A. Storage tank criteria; 17-761.500, .520 and .550:					
24. Facility meets applicable storage tank standards; (1)	24.				✓
25. Systems meet siting requirements; (4)	25.				✓
26. Tank(s) equipped with spill containment; (5)(b)	26.				✓
27. Tank(s) equipped with overfill protection; (5)(b)	27.				✓
28. Facility meets construction upgrading schedule; 17-761.510	28.				✓

DRAFT

Name Dales Super Close
Fac # 06983B6227
Date 4-29-91

		Yes	No	Unk	N/A
V. PERFORMANCE STANDARDS/CATHODIC PROTECTION Continued					
B. Piping criteria; 17-761.500:					
29. New piping has secondary containment; (2)	29.				✓
30. Dispensers are upgraded with properly installed and maintained liners; (6)	30.				✓
31. Facility meets construction upgrading schedule; 17-761.510(6)	31.				✓
C. Cathodic Protection/Certified Contractors/Tightness Testing					
32. Cathodic protection system provides continuous protection; 17-761.730(1)-(4)	32.				✓
33. PSSSC conducted all storage tank repairs, installations or removals; 17-761.740(1)-(9)	33.				✓
34. Test performed by a D.P.R.-registered tester; 17-761.740	34.				✓
VI. RELEASE DETECTION/MONITORING WELLS Comments: NUTTING ENVIRONMENTAL WAS DOING THE SOIL AND WATER TEST.					
35. New petroleum or hazardous substance storage tanks provided with an approved release detection system upon installation; 17-761.600(3)	35.	✓			
36. All release detection systems meet general release standards; 17-761.600	36.	✓			
37. Release detection systems are monitored for a discharge at least every 30 days: 17-761.600 (5)	37.	✓			
38. Groundwater monitoring wells are properly sampled and meet the requirements of 17-761.640(1)	38.	✓			
39. Vapor monitoring wells are properly sampled and meet the requirements of 17-761.640(2)	39.				✓
An approved release detection system is provided for:					
40. Existing hazardous substance storage tanks; 17-761.560	40.				✓
41. Existing vehicular fuel storage tanks; 17-761.610	41.				✓
42. Other existing regulated substance storage tanks; 17-761.630	42.				✓
43. Integral piping provided with secondary containment; 17-761.630	43.				✓
44. Integral piping without secondary containment; 17-761.640(8)	44.				✓
VII. OUT-OF-SERVICE STATUS Comments:					
45. Storage systems have been emptied of regulated substances; 17-761.200(26)	45.	✓			
Out-of-Service storage tank systems have; 17-761.800:					
46. Corrosion protection properly maintained; (1)(a)(1)	46.				✓
47. Release detection system monitored for evidence of a discharge at least every six months; (1)(a)(2)	47.				✓
48. Vent lines open, ancillary equipment secured; (1)(b)	48.				✓
49. Been upgraded or replaced before returning to service; (1)(c)	49.				✓
50. Been tested tight before returning to service; (1)(c)	50.				✓
51. Been out-of-service for no more than two years; (1)(d)	51.				✓
52. Been out-of-service for no more than 12 months (unprotected bare steel systems); (2)(b)	52.	✓			
53. Proper closure for an unmaintained tank; (2)	53.	✓			
54. Had a closure assessment properly performed; (3)	54.	✓			
VIII. VARIANCE Comments:					
55. Facility applied for Alternate Procedure (Explain in comment) 17.761.860	55.				✓
IX. Other Comments:					
56. Any other violations noted during inspection (Explain in comments)	56.				✓

DRAFT

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
POLLUTANT STORAGE TANK SYSTEM
INSPECTION REPORT FORM - COVER PAGE

#2354

FACILITY ID NO.: (0)68838227 COUNTY: BROWARD
FACILITY NAME: ADIOS GOLF CLUB
FACILITY LOCATION: 7740 NW 39TH AVE COCONUT CREEK
OPERATOR: ADIOS GOLF CLUB PHONE: (305) 421-6203
OWNER: ADIOS GOLF CLUB PHONE: (305) 971-9120
OWNER ADDRESS: 7740 NW 39TH AVE COCONUT CREEK FL 33067
OWNER CONTACT: DAVID LAUGHLIN OWNER CHANGE DATE / /??

LATITUDE: 26-07-45 LONGITUDE: 80-14-40 SECTION 32 TOWNSHIP 47S RANGE 42E

TANK #	SIZE	CONTENT	INSTALL DATE	U/A OR IN-CONTACT	TANK CONSTRUCTION	INTEGRAL PIPING	MONITORING SYSTEM	TANK STA
1	1000	A	XX/83	U	C	D	Y	U
2	1000	D	XX/83	U	C	D	Y	U

COMMENTS:

> STOC-2346 + STC-1974
> M.W. NO ODOR DETECTED NO PRODUCT OBSERVED
> TANKS STILL IN PLACE.
> TANKS WERE EMPTY FOR A MONTH AGO.

INSPECTION TYPE
__ COMPLAINT RESPONSE __ REINSPECTION
✓ INITIAL __ INSTALLATION
__ EDI __ TANK REMOVAL
__ PUBLIC WELL FIELD __ UNREGISTERED

FACILITY INFORMATION
__ ABANDONED ✓ NON-RETAIL
__ ABOVEGROUND __ RETAIL
__ GOVT.-FEDERAL __ RETROFIT (M OR O)
__ GOVT.-OTHER __ RETROFIT (L OR R)

DER DISTRICT: OR LOCAL PROGRAM: DNRP-BROWARD

4-29-91
INSPECTOR'S SIGNATURE & DATE

29 APRIL 91
FACILITY CONTACT'S SIGNATURE & DATE

VIOLATIONS MUST BE CORRECTED BY: NEXT ROUTINE INSPECTION ___ OR BY: __/__/__
MO DY YR

DER FORM 61-01-88 (09-01-89)

DRAFT

Name ACROS SALT LAKE
Facility # A0282246227
Date 4-29-91

UNDERGROUND STORAGE TANK COMPLIANCE INSPECTION FORM

		Yes	No	Unk	N/A
I. REGISTRATION/NOTIFICATION: Comments:					
1. Facility has registered all applicable tanks on site; 17-761.400	1.	✓			
2. Current registration placard is properly displayed; 17-761.410(6)	2.	✓			
Proper notification has been made for the following; 17-761.450:					
3. Proper closure (30 days prior); (1)(a)	3.	✓			
4. Change of ownership (30 days after); (1)(b)	4.				✓
5. Upgrading, replacement or installation (10 days prior); (1)(c)	5.				✓
6. Change of tank status (in service/out of service), (within 30 days); (1)(d)	6.	✓			
7. Change of facility status (e.g. substances stored), (within 30 days);(1)(e)	7.	✓			
8. Change of method of financial responsibility (within 30 days); (3)	8.				✓
9. Start of closure, upgrades or installation (24 hr. verbal or written); (4)	9.				✓
II. RECORD KEEPING: Comments: TANKS WERE EMPTY WAITING EAP TO BE REMOVED					
10. All records were maintained for two (2) years and were available for inspection within five (5) working days; 17-761.710(1)	10.				✓
11. Some but not all records were maintained for two (2) years and were available for inspection within five (5) working days; 17-761.710(1)	11.				✓
III. REPORTING/DISCHARGE RESPONSE/REPAIRS: Comments:					
Proper reporting requirements been met for the following; 17-761.460:					
12. Results of tightness test; (1)	12.				✓
13. Any spill, overfill, or other discharge within one working day of discovery; (2)	13.				✓
14. Suspected releases within one working day of discovery; (3)(a), (b)	14.				✓
15. Confirmed releases (positive response of a release detection device within one working day of discovery); (3)(c)	15.	✓			
The owner or the operator of the system which has discharged has:					
16. Taken it out-of-service; 17-761.700(1), had it repaired or replaced; .700. or properly closed it; .820(1)	16.	✓			
17. Removed any regulated substances been from the system; 17-761.820(1)	17.	✓			
18. Tightness tested all repaired components before placing them back in service; 17-761.700(6)	18.				✓
19. Had repairs or replacements performed by a certified contractor;					
20. Had tightness tests performed by certified contractor; 17-761.200	20.				✓
21. Begun initial corrective actions for a release; 17-761.820(2)	21.				✓
IV. INVENTORY REQUIREMENTS: Comments:					
22. All inventory requirements maintained in accordance with 17-761.720(1)	22.				✓
23. Some, but not all inventory requirements maintained in accordance with 17-761.720(1)	23.				✓
V. PERFORMANCE STANDARDS/CATHODIC PROTECTION Comments:					
A. Storage tank criteria; 17-761.500,.520 and .550:					
24. Facility meets applicable storage tank standards; (1)	24.				✓
25. Systems meet siting requirements; (4)	25.				✓
26. Tank(s) equipped with spill containment; (5)(b)	26.				✓
27. Tank(s) equipped with overfill protection; (5)(b)	27.				✓
28. Facility meets construction upgrading schedule; 17-761.510	28.				✓

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Name Dios Corner Corner
Fac # 0683362227
DATE 4-29-91

		Yes	No	Unk	N/A
V. PERFORMANCE STANDARDS/CATHODIC PROTECTION Continued					
B. Piping criteria; 17-761.500:					
29. New piping has secondary containment; (2)	29.				✓
30. Dispensers are upgraded with properly installed and maintained liners; (6)	30.				✓
31. Facility meets construction upgrading schedule; 17-761.510(6)	31.				✓
C. Cathodic Protection/Certified Contractors/Tightness Testing					
32. Cathodic protection system provides continuous protection; 17-761.730(1)-(4)	32.				✓
33. PSSSC conducted all storage tank repairs, installations or removals; 17-761.740(1)-(9)	33.				✓
34. Test performed by a D.P.R.-registered tester; 17-761.740	34.				✓
VI. RELEASE DETECTION/MONITORING WELLS Comments: NUTTING ENVIRONMENTAL WAS DOING THE SOIL AND WATER TEST.					
35. New petroleum or hazardous substance storage tanks provided with an approved release detection system upon installation; 17-761.600(3)	35.	✓			
36. All release detection systems meet general release standards; 17-761.600	36.	✓			
37. Release detection systems are monitored for a discharge at least every 30 days: 17-761.600 (5)	37.	✓			
38. Groundwater monitoring wells are properly sampled and meet the requirements of 17-761.640(1)	38.	✓			
39. Vapor monitoring wells are properly sampled and meet the requirements of 17-761.640(2)	39.				✓
An approved release detection system is provided for:					✓
40. Existing hazardous substance storage tanks; 17-761.560	40.				✓
41. Existing vehicular fuel storage tanks; 17-761.610	41.				✓
42. Other existing regulated substance storage tanks; 17-761.630	42.				✓
43. Integral piping provided with secondary containment; 17-761.630	43.				✓
44. Integral piping without secondary containment; 17-761.640(8)	44.				✓
VII. OUT-OF-SERVICE STATUS Comments:					
45. Storage systems have been emptied of regulated substances; 17-761.200(26)	45.	✓			
Out-of-Service storage tank systems have; 17-761.800:					
46. Corrosion protection properly maintained; (1)(a)(1)	46.				✓
47. Release detection system monitored for evidence of a discharge at least every six months; (1)(a)(2)	47.				✓
48. Vent lines open, ancillary equipment secured; (1)(b)	48.				✓
49. Been upgraded or replaced before returning to service; (1)(c)	49.				✓
50. Been tested tight before returning to service; (1)(c)	50.				✓
51. Been out-of-service for no more than two years; (1)(d)	51.				✓
52. Been out-of-service for no more than 12 months (unprotected bare steel systems); (2)(b)	52.	✓			
53. Proper closure for an unmaintained tank; (2)	53.	✓			
54. Had a closure assessment properly performed; (3)	54.	✓			
VIII. VARIANCE Comments:					
55. Facility applied for Alternate Procedure (Explain in comment) 17.761.860	55.				✓
IX. Other Comments:					
56. Any other violations noted during inspection (Explain in comments)	56.				✓

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Facility Area Report and Maps

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Site Name	ADIOS GOLF CLUB	**Facility_ID**	8838227	**County**	
Address	7740 NW 39TH AVE	**Operator**	ADIOS GOLF CLUB		BROWARD
City	COCONUT CREEK	**ZIP5**	33073		

Site Status	CLOSED	**Number_discharges**	1	**Latitude**	26.3223163
Facility Type:	Fuel user/Non-retail	**Facilty Cleanup Status**	COMPLETED	**Longitude**	-80.174544

Score 95

Reports

Recent PCB Report	Recent Site Assessment Report	Recent Remedial Action Plan	Recent Remedial Action Report	Recent Source Removal Report
	4/21/2004		6/24/2004	

Neigh orhood Parcels

Dept of Revenue County No	Parcel Number	Land Use Code	DOR Code Description	Number of Buildings	Owner	Address	ADDR2	City	State	Zip	Legal Description
16	474232020010	038	38 GOLF COURSE DRIVING RANGE	3	ADIOS GOLF CLUB INC	PO BO 0310		COCONUT CREEK	FLORI	FLORID	ADIOS PLAT 113-24 B

STCM data current as of Aug 5 2008

Parcel data from DOR and is current as of 8/1/2007

Well data from DOH current as of Aug 5 2008

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16	474232010040	001	01 SINGLE FAMILY IMPROVED	1	YOUNG RICHARD OANNE	7741 NW 39TH AVE	COCONUT CREEK	FLORI	FLORID	PALM BEACH FARMS 2-53 PB	
16				0							
16	474233030470	001	01 SINGLE FAMILY IMPROVED	1	BROOKS WILLIAM R 1/2 INT	307 NW 47 TER	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B	
16	474233031880	001	01 SINGLE FAMILY IMPROVED	1	SCLAFANO ROBERT MADELEINE	263 NW 48TH AVE	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B	
16	474233101800	001	01 SINGLE FAMILY IMPROVED	1	SCHAAD CHRISTOPHER R CHRISTI	733 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B	
16	474233101090	001	01 SINGLE FAMILY IMPROVED	1	SACKS EFFREY G ALICIA A	4742 NW 7TH PL	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B	
16	474233101010	001	01 SINGLE FAMILY IMPROVED	1	HARRISON LEONARD SHELLEY SUE	4743 NW 7 ST	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B	
16	474232050020	001	01 SINGLE FAMILY IMPROVED	2	GRELICK GARY	7705 NW 39 AVE	COCONUT CREEK	FLORI	FLORID	DE EN O PARCELS 143-31 B	
16	474233101020	001	01 SINGLE FAMILY IMPROVED	1	SAMUEL EREMY SHELLY	4757 NW 7 ST	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B	
16	474233101030	001	01 SINGLE FAMILY IMPROVED	1	REVILLE RICHARD	4771 NW 7 ST	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B	
16	474233037191	086	86 COUNTY	0	BROWARD COUNTY	115 S ANDREWS AVE ROOM 326	FORT LAUDERDALE	FLORI	FLORID	CO UINA LAKES 105-22 B	

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16	474233101040	001	01 SINGLE FAMILY IMPROVED	1	PROEN A ER RY	4799 NW 7 ST	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B	
16	474233101080	001	01 SINGLE FAMILY IMPROVED	1	ABREU MARC O	4756 NW 7 PL	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B	
16	474233101070	001	01 SINGLE FAMILY IMPROVED	1	PERE RENE OSEPHINE	4770 NW 7 PL	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B	
16	474233101060	001	01 SINGLE FAMILY IMPROVED	1	MURRAY AME S	4784 NW 7 PL	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B	
16	474233101050	001	01 SINGLE FAMILY IMPROVED	1	MOHR KATHE RINE W 1/2 INT EA	4798 NW 7 PL	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B	
16	474232010042	001	01 SINGLE FAMILY IMPROVED	1	KAWALEC KO REEN L	20906 HAMACA CT	BOCA RATON	FLORI	FLORID	PALM BEACH FARMS 2-53 PB	
16	474233101780	001	01 SINGLE FAMILY IMPROVED	1	COUNTOURIS FRANCINE MASSIE	761 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B	
16	474233101810	001	01 SINGLE FAMILY IMPROVED	1	BITETTO AME S 1/2 INT EA	719 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B	
16				0							
16				0							
16	474233101790	001	01 SINGLE FAMILY IMPROVED	1	MAUDSLEY SA NDRA	747 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B	

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16	474233101700	001	01 SINGLE FAMILY IMPROVED	1	SARACENO DAN TERESA E	4741 NW 7 PLACE	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233101710	001	01 SINGLE FAMILY IMPROVED	1	KUREK REBECCA	4755 NW 7 PL	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233101720	001	01 SINGLE FAMILY IMPROVED	1	SKLARK MICHAEL W 1/2 INT	4769 NW 7 PL	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233101730	001	01 SINGLE FAMILY IMPROVED	1	CARAWAY AMES E KARINSUE LE	4783 NW 7 PLACE	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233101740	001	01 SINGLE FAMILY IMPROVED	1	REPETTI EDWARD SCOTT REBECCA	4797 NW 7 PLACE	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233101750	001	01 SINGLE FAMILY IMPROVED	1	PIVA ORGE MARIA E	4811 NW 7 PL	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233101760	001	01 SINGLE FAMILY IMPROVED	1	VELE IMMY C ELSA	4825 NW 7 PL	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233101820	001	01 SINGLE FAMILY IMPROVED	1	CONNELL AN E 1/2 INT EA	705 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233101910	094	94 RIGHT-OF-WAY STREETS ROADS DITCHES ETC	0	CITY OF DEERFIELD BEACH	150 NE 2 AVE	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233037230	000	00 VACANT RESIDENTIAL	0	RIVERGLEN HOMEOWNERS ASSN INC	1761 W HILLSBOROUGH BLVD STE 3	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B

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16	474233031450	001	01 SINGLE FAMILY IMPROVED	1	GARCIA LUIS A LINDA B	4754 NW 7 ST	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233031440	001	01 SINGLE FAMILY IMPROVED	1	DESIDERIO BARBARA 1/2 INT EA	4772 NW 7 ST	DEERFIELED BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233101830	001	01 SINGLE FAMILY IMPROVED	1	BUNCH KENNETH COURTNEY	691 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233031430	001	01 SINGLE FAMILY IMPROVED	1	DAVIS STEWART NEWTON	4790 NW 7 ST	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233031410	001	01 SINGLE FAMILY IMPROVED	1	PETERSEN ERIK L LESLIE D	640 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233032060	001	01 SINGLE FAMILY IMPROVED	1	DOSTALY WILNER ALOUSA	545 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233031610	001	01 SINGLE FAMILY IMPROVED	1	BEAUPRE EDGAR H	580 NW 47 TER	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233031500	001	01 SINGLE FAMILY IMPROVED	1	IAGROSSI DIANA	4764 NW 5 CT	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233032080	001	01 SINGLE FAMILY IMPROVED	1	DILLON STEVEN D 1/2 INT	577 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233031490	001	01 SINGLE FAMILY IMPROVED	1	TROPEANO CARMINE ANNA	4780 NW 5 CT	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233031480	001	01 SINGLE FAMILY IMPROVED	1	WESTERVELT STEVE B 1/2 INT	4796 NW 5 CT	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B

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16	474233031640	001	01 SINGLE FAMILY IMPROVED	1	KETTELHUT D REW	628 NW 47 TER	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233031340	001	01 SINGLE FAMILY IMPROVED	1	DISHER ACKI E K	575 NW 47 TER	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233031370	001	01 SINGLE FAMILY IMPROVED	1	SCHAPER REI N ADRIANNA	576 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233031620	001	01 SINGLE FAMILY IMPROVED	1	MUIR GORDO N MICHELE	596 NW 47 TER	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233101900	000	00 VACANT RESIDENTIAL	0	HARBORS AT RIVERGLEN HMWNRS	PO BO 880328	BOCA RATON	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233032090	001	01 SINGLE FAMILY IMPROVED	1	HOSNEDL CYN THIA ROBERT FRANK	593 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233032110	001	01 SINGLE FAMILY IMPROVED	1	GARRIDO OY CE 1/2 INT EA	625 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233031310	001	01 SINGLE FAMILY IMPROVED	1	MAYERS OAN RUCKER	623 NW 47 TER	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233031400	001	01 SINGLE FAMILY IMPROVED	1	ROSENBLATT MARK	624 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233031600	001	01 SINGLE FAMILY IMPROVED	1	KIRK YOLAND E SOLAGES	4741 NW 5 CT	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233032070	001	01 SINGLE FAMILY IMPROVED	1	GAVIRIA ALE ANDRO	561 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B

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16	474233031350	001	01 SINGLE FAMILY IMPROVED	1	LUBECK WALTER	559 NW 47 TER	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES	105-22 B
16	474233031360	001	01 SINGLE FAMILY IMPROVED	1	ERLICH NEDRA	560 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES	105-22 B
16	474233032130	001	01 SINGLE FAMILY IMPROVED	1	TANG TING KUEN 1/2 INTEA	657 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES	105-22 B
16	474233031290	001	01 SINGLE FAMILY IMPROVED	1	TEGERIDES CHRISTINA A	4767 NW 6 CT	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES	105-22 B
16	474233031330	001	01 SINGLE FAMILY IMPROVED	1	PILCH CHARLES PATRICIA L L	591 NW 47 TER	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES	105-22 B
16	474233031420	001	01 SINGLE FAMILY IMPROVED	1	HOOVER DENNIS A HELENA C	656 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES	105-22 B
16	474233031300	001	01 SINGLE FAMILY IMPROVED	1	PAINO ALDO S MARIA L	639 NW 47 TER	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES	105-22 B
16	474233031380	001	01 SINGLE FAMILY IMPROVED	1	HARRIS DAVID W	592 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES	105-22 B
16	474233031630	001	01 SINGLE FAMILY IMPROVED	1	ARA LINDA SUE	612 NW 47 TER	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES	105-22 B
16	474233032100	001	01 SINGLE FAMILY IMPROVED	1	LAWRENCE KELLY	609 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES	105-22 B
16	474233031320	001	01 SINGLE FAMILY IMPROVED	1	PRANNO LOUIS	607 NW 47 TER	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES	105-22 B

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16	474233031390	001	01 SINGLE FAMILY IMPROVED	1	HORTON GORDON W GARNETT	608 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B	
16	474233032120	001	01 SINGLE FAMILY IMPROVED	1	ANTON MIHAI 1/2 INT	641 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B	
16	474233031070	001	01 SINGLE FAMILY IMPROVED	1	MOHAMMED NOUSHAD MICHELE	431 NW 47 TER	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B	
16	474233031000	001	01 SINGLE FAMILY IMPROVED	1	MAR ARELLA RICHARD	432 NW 48TH AVE	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B	
16	474233032010	001	01 SINGLE FAMILY IMPROVED	1	VOGEL NORMAN MYRNA	455 NW 48TH AVE	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B	
16	474233031990	001	01 SINGLE FAMILY IMPROVED	1	MAGUIRE SCOTT	423 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B	
16	474233031060	001	01 SINGLE FAMILY IMPROVED	1	DEMATTIES STEPHEN PATTYANN	447 NW 47 TER	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B	
16	474233031010	001	01 SINGLE FAMILY IMPROVED	1	SOUSA OSAFA	4361 SW 10TH PL APT 203	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B	
16	474233031080	001	01 SINGLE FAMILY IMPROVED	1	BRAND L STEVEN MELISSA	415 NW 47TH TER	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B	
16	474233030990	001	01 SINGLE FAMILY IMPROVED	1	CINO MICHAEL P ELLEN H	416 NW 48TH AVE	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B	
16	474233032030	001	01 SINGLE FAMILY IMPROVED	1	COLLINS RICHARD A	6208 SANTA MARGARITO DR	FT PIERCE	FLORI	FLORID	CO	UINA LAKES 105-22 B	

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16	474233031040	001	01 SINGLE FAMILY IMPROVED	1	SOSA ROBERT O LINA CALCAGNO	479 NW 47TH TER	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233031030	001	01 SINGLE FAMILY IMPROVED	1	CORTES ADAL BERTO IRMA L	480 NW 48TH AVE	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233032050	001	01 SINGLE FAMILY IMPROVED	1	LUBIN DANIEL HERMANIE	529 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233032000	001	01 SINGLE FAMILY IMPROVED	1	WELLS FARGO BANK TRUSTEE	7105 CORPORATE DR MS PT -B-35	PLANO	TE AS	TE AS	CO	UINA LAKES 105-22 B
16	474233031570	001	01 SINGLE FAMILY IMPROVED	1	AUCHINLECK MAUREEN	16212 BRIDLEWOOD CIR	DELRAY BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233031580	001	01 SINGLE FAMILY IMPROVED	1	DE MAN ROBERT NICOLE	4781 NW 5 ST	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233031590	001	01 SINGLE FAMILY IMPROVED	1	BOTTINI BONN IE WISHENGARD	4797 NW 5 ST	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233032020	001	01 SINGLE FAMILY IMPROVED	1	TIMMERMAN G ERALD L	471 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233031050	001	01 SINGLE FAMILY IMPROVED	1	BLASLAND BRI AN	11298 MILLPOND GREENS DR	BOYNTON BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233031020	001	01 SINGLE FAMILY IMPROVED	1	SHAFFER PAU L PATRICIA	464 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B
16	474233032040	001	01 SINGLE FAMILY IMPROVED	1	LEWIS GEORG E S R	513 NW 48TH AVE	DEERFIELD BEACH	FLORI	FLORID	CO	UINA LAKES 105-22 B

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16	474233030620	001	01 SINGLE FAMILY IMPROVED	1	RANSOM LAUREN	236 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B
16	474232081340	001	01 SINGLE FAMILY IMPROVED	1	CORONEL OSE L 1/2 INT EA	7139 CRESCENT CREEK WAY	COCONUT CREEK	FLORI	FLORID	COCONUT POINTE 164-27 B
16	474232080030	001	01 SINGLE FAMILY IMPROVED	1	OSHI ANAND V	7136 CRESCENT CREEK WAY	COCONUT CREEK	FLORI	FLORID	COCONUT POINTE 164-27 B
16	474233031860	001	01 SINGLE FAMILY IMPROVED	1	WAHRMAN C III	235 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B
16	474232010174	000	00 VACANT RESIDENTIAL	0	LONG EANNE M	3990 NW 74 ST	POMPANO BEACH	FLORI	FLORID	PALM BEACH FARMS 2-53 PB
16	474233030590	001	01 SINGLE FAMILY IMPROVED	1	BENNETT DOUGLAS	4793 NW 1 DR	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B
16	474233030410	001	01 SINGLE FAMILY IMPROVED	1	BIANCO CARMINE R	4785 NW 3RD CT	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B
16	474233030420	001	01 SINGLE FAMILY IMPROVED	1	PAPAGNO TRAVIS ROSEMARY	4793 NW 3RD CT	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B
16	474233030400	001	01 SINGLE FAMILY IMPROVED	1	RESSO OHNR PATTI A	4777 NW 3RD CT	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B
16	474233031960	001	01 SINGLE FAMILY IMPROVED	1	BROWN HYACINTH L	375 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B
16	474233031930	001	01 SINGLE FAMILY IMPROVED	1	REIT PHILLIPE VALERIE	333 NW 48TH AVE	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B

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16	474233030490	001	01 SINGLE FAMILY IMPROVED	1	WOOLCOTT F RANK	275 NW 47 TER	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES	105-22 B
16	474233030650	001	01 SINGLE FAMILY IMPROVED	1	WOLAK KIRK	278 NW 48TH AVE	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES	105-22 B
16	474232080040	001	01 SINGLE FAMILY IMPROVED	1	SCHULTE KEIT H R	6971 NW 63 WAY	PARKLAND	FLORI	FLORID	COCONUT POINTE	164-27 B
16	474233030610	001	01 SINGLE FAMILY IMPROVED	1	MANCUSO RIC HARD A LAURA A	222 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES	105-22 B
16	474232081330	001	01 SINGLE FAMILY IMPROVED	1	PAPAI ALE CARMELA	7135 CRESCENT CREEK WAY	COCONUT CREEK	FLORI	FLORID	COCONUT POINT	164-27 B
16	474233031890	001	01 SINGLE FAMILY IMPROVED	1	RIFENBURY KI RK A UNE L	277 NW 48TH AVE	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES	105-22 B
16	474233030460	001	01 SINGLE FAMILY IMPROVED	1	ASHRAF SHIR A AD ESTHER E	321 NW 47 TER	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES	105-22 B
16	474233030680	001	01 SINGLE FAMILY IMPROVED	1	PRIT MARY R	320 NW 48TH AVE	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES	105-22 B
16	474232080010	094	94 RIGHT-OF-WAY STREETS ROADS DITCHES ETC	0	CRESCENT CREEK HOMEOWNER S	10191 W SAMPLE ROAD	CORAL SPRINGS	FLORI	FLORID	COCONUT POINTE	164-27 B
16	474233030500	001	01 SINGLE FAMILY IMPROVED	1	LE VANG THI	261 NW 47 TER	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES	105-22 B



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16	474233030640	001	01 SINGLE FAMILY IMPROVED	1	PADILHA ROSANA	264 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES	105-22 B
16	474233031980	001	01 SINGLE FAMILY IMPROVED	1	RIDGEWAY ROBERT BETH M	407 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES	105-22 B
16	474233030390	001	01 SINGLE FAMILY IMPROVED	1	BARONE STEVEN E MARYLEA	4763 NW 3 CT	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES	105-22 B
16	474233031920	001	01 SINGLE FAMILY IMPROVED	1	PHIFER WILLIAM B	319 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES	105-22 B
16	474233031950	001	01 SINGLE FAMILY IMPROVED	1	GUILAUME LAVY GENITA	12463 SUNCHASE DR	ACKSONVILLE	FLORI	FLORID	CO UINA LAKES	105-22 B
16	474232081440	000	00 VACANT RESIDENTIAL	0	CRESCENT CREEK HOMEOWNERS	10191 W SAMPLE ROAD 203	CORAL SPRINGS	FLORI	FLORID	COCONUT POINT	164-27 B
16	474232081430	000	00 VACANT RESIDENTIAL	0	CRESCENT CREEK HOMEOWNERS	10191 W SAMPLE ROAD 203	CORAL SPRINGS	FLORI	FLORID	COCONUT POINT	164-27 B
16	474232081360	001	01 SINGLE FAMILY IMPROVED	1	FIT GERALD MATHEW AMY	7149 CRESCENT CREEK WAY	COCONUT CREEK	FLORI	FLORID	COCONUT POINTE	164-27 B
16	474233031090	001	01 SINGLE FAMILY IMPROVED	1	RICHARDS MICHELLE	403 NW 47 TER	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES	105-22 B
16	474233030670	001	01 SINGLE FAMILY IMPROVED	1	SACLAYAN CELEDONIO MARIE C	306 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES	105-22 B

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16	474233031910	001	01 SINGLE FAMILY IMPROVED	1	KLINGLER KELLY LIN	305 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B	
16	474233030980	001	01 SINGLE FAMILY IMPROVED	1	ROSE MIKE ENNIFER L	400 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B	
16	474232080011	001	01 SINGLE FAMILY IMPROVED	1	DAVIS BRIAN DIANE T	7148 CRESCENT CREEK WAY	COCONUT CREEK	FLORI	FLORID	COCONUT POINTE 164-27 B	
16	474233030510	001	01 SINGLE FAMILY IMPROVED	1	MILLER CODY S LEAH TARAVELLA	247 NW 47 TER	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B	
16	474233030630	001	01 SINGLE FAMILY IMPROVED	1	VICTORIA EGEDIO A R AYLYN	250 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B	
16	474233031100	001	01 SINGLE FAMILY IMPROVED	1	ROSADO BRIAN SCOTT 1/2 INT EA	4756 NW 4 ST	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B	
16	474233031970	001	01 SINGLE FAMILY IMPROVED	1	GODSEY TROY W	391 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B	
16	474233030480	001	01 SINGLE FAMILY IMPROVED	1	COONS LOUIS OANNE M	289 NW 47TH TER	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B	
16	474233030660	001	01 SINGLE FAMILY IMPROVED	1	INN MARTIN	4030 LYNDHURST UNIT 4030	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B	
16	474233031870	001	01 SINGLE FAMILY IMPROVED	1	GONCALVES MARIO	249 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B	
16	474233030520	001	01 SINGLE FAMILY IMPROVED	1	MALDONADO LUIS ULIA	243 NW 47 TER	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B	

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16	474232081350	001	01 SINGLE FAMILY IMPROVED	1	MAKHANLALL RICKY	7145 CRESCENT CREEK WAY	COCONUT CREEK	FLORI	FLORID	COCONUT POINTE 164-27 B	
16	474232080020	001	01 SINGLE FAMILY IMPROVED	1	MACIULEWIC CASIMIR 1/2 INT EA	7142 CRESCENT CREEK WAY	COCONUT CREEK	FLORI	FLORID	COCONUT POINTE 164-27 B	
16	474233030430	001	01 SINGLE FAMILY IMPROVED	1	POPOVICI IOT A	4796 NW 3 CT	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B	
16	474233030450	001	01 SINGLE FAMILY IMPROVED	1	KELLER GARY RAY DONNA MARIE	337 NW 47TH TER	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B	
16	474233031940	001	01 SINGLE FAMILY IMPROVED	1	MCKINLEY MA RCIA A 1/2 INT	347 NW 48TH AVE	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B	
16	474232081420	000	00 VACANT RESIDENTIAL	0	CRESCENT CREEK HOMEOWNER S	10191 W SAMPLE ROAD 203	CORAL SPRINGS	FLORI	FLORID	COCONUT POINT 164-27 B	
16	474232080910	001	01 SINGLE FAMILY IMPROVED	1	VEGA RAFAEL ANTONIO ANGELA D	3907 CRESCENT CREEK DR	COCONUT CREEK	FLORI	FLORID	COCONUT POINTE 164-27 B	
16	474232080900	001	01 SINGLE FAMILY IMPROVED	1	OLIVEIRA LUCI A RAFAELA	3909 CRESCENT CREEK DR	COCONUT CREEK	FLORI	FLORID	COCONUT POINTE 164-27 B	
16	474232080890	001	01 SINGLE FAMILY IMPROVED	1	SHIRLEY THO MAS CARRIE	3913 CRESCENT CREEK DR	COCONUT CREEK	FLORI	FLORID	COCONUT POINTE 164-27 B	
16	474232080880	001	01 SINGLE FAMILY IMPROVED	1	SLANEY ALAN ANGELA	3923 CRESCENT CREEK DR	COCONUT CREEK	FLORI	FLORID	COCONUT POINT 164-27 B	
16	474233031900	001	01 SINGLE FAMILY IMPROVED	2	ACOBS VINS ON E KIMBERLY A	291 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B	

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16	474233030130	001	01 SINGLE FAMILY IMPROVED	1	TRUMAN MARK	4786 NW 1 DR	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B
16	474233030120	001	01 SINGLE FAMILY IMPROVED	1	KNARIAN DOREEN	186 NW 48TH AVE	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B
16	484205080690	000	00 VACANT RESIDENTIAL	0	ADIOS VILLAS HOMEOWNERS ASSN	6530 GRIFFIN RD 104	DAVIE	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080330	001	01 SINGLE FAMILY IMPROVED	1	BERGAMO OHN C	3301 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080420	001	01 SINGLE FAMILY IMPROVED	1	TADDONIO PAUL A ANICE B	3430 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080570	001	01 SINGLE FAMILY IMPROVED	1	BALFOUR SANDRA SOOKLAL	3720 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080470	001	01 SINGLE FAMILY IMPROVED	1	KERN CHARLES W 1/2 INT EA	3540 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080400	001	01 SINGLE FAMILY IMPROVED	1	LENAHAN RAYMOND UDITH	3410 NW 71ST ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080410	001	01 SINGLE FAMILY IMPROVED	1	SAHI APPINDER	3420 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080500	001	01 SINGLE FAMILY IMPROVED	1	PLANAKIS ANDREAS	3610 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	474232080150	001	01 SINGLE FAMILY IMPROVED	1	YEATS KARL MARIA ELENA	3942 CRESCENT CREEK PL	COCONUT CREEK	FLORI	FLORID	COCONUT POINTE 164-27 B



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16	484205080320	001	01 SINGLE FAMILY IMPROVED	1	ROSS DONALD W R TRACEY L	3311 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080310	001	01 SINGLE FAMILY IMPROVED	1	HAMILTON A CK	3321 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080300	001	01 SINGLE FAMILY IMPROVED	1	KING EARL S III CATHY L	3331 NW 71ST ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080290	001	01 SINGLE FAMILY IMPROVED	1	IMHOFF KENN ETH W	3341 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080280	001	01 SINGLE FAMILY IMPROVED	1	RONDINELLA DEBRA 1/2 INT	3351 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080270	001	01 SINGLE FAMILY IMPROVED	1	LUBOWICKI A RDINE	3401 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080260	001	01 SINGLE FAMILY IMPROVED	1	SCHREIBER B ENNETT GLORIA	3411 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080250	001	01 SINGLE FAMILY IMPROVED	1	MILLS GREGO RY 1/2 INT EA	3421 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080240	001	01 SINGLE FAMILY IMPROVED	1	ROLFF ARAND PATRICIA E	3431 NW 71ST ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080230	001	01 SINGLE FAMILY IMPROVED	1	USTICE GLEN N SCOTT KAREN N	3441 NW 71ST ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080220	001	01 SINGLE FAMILY IMPROVED	1	BENOIT KEVIN M ISABEL A	3451 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS

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16	484205080210	001	01 SINGLE FAMILY IMPROVED	1	MEYERER ON ATHAN TABITHA T	3501 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080200	001	01 SINGLE FAMILY IMPROVED	1	HUTCHENGS HARRISON M KAY DAL	3511 NW 71ST ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080190	001	01 SINGLE FAMILY IMPROVED	1	EBERLE MARK NIKI DESILVIO	3521 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080180	001	01 SINGLE FAMILY IMPROVED	1	OLIVERI MICH AEL	3531 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080170	001	01 SINGLE FAMILY IMPROVED	1	PARISH WILLIA M S	3541 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080160	001	01 SINGLE FAMILY IMPROVED	1	MARTIN SARA Y B	3551 NW 71ST ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080150	001	01 SINGLE FAMILY IMPROVED	1	HOWARD MAR CIA L	3601 NW 71ST ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080140	001	01 SINGLE FAMILY IMPROVED	1	PAILLET DIANE DESMARIAS	3611 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080130	001	01 SINGLE FAMILY IMPROVED	1	SOBOTA OHN L	3621 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080120	001	01 SINGLE FAMILY IMPROVED	1	HANDLEMAN B RIAN	3631 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080110	001	01 SINGLE FAMILY IMPROVED	1	BURES MICHA EL R	3641 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS

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16	484205080100	001	01 SINGLE FAMILY IMPROVED	1	EHENDER HA RRY F	3651 NW 71ST ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080090	001	01 SINGLE FAMILY IMPROVED	1	FELICE MARC PATRICIA	3701 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080080	001	01 SINGLE FAMILY IMPROVED	1	ESSUP MICH AEL H OANNE L	3711 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080070	001	01 SINGLE FAMILY IMPROVED	1	STYPELKOSKI GARY A A C	3721 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080060	001	01 SINGLE FAMILY IMPROVED	1	KELLY DANIEL W FRANCINE M	3731 NW 71ST ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080050	001	01 SINGLE FAMILY IMPROVED	1	RO UE ELI A BETH A	12570 NW 65TH DR	PARKLAND	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080040	001	01 SINGLE FAMILY IMPROVED	1	ROSEN RICHA RD 1/2 INT EA	3751 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080030	001	01 SINGLE FAMILY IMPROVED	1	LUTON DELOR ES	PO BO 4547	DEERFIELD BEACH	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080020	001	01 SINGLE FAMILY IMPROVED	1	SMITH ROBER T H SYLVIA H	3811 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080010	001	01 SINGLE FAMILY IMPROVED	1	DIONNE KEVIN R	3821 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080640	000	00 VACANT RESIDENTIAL	0	ADIOS VILLAS HOMEOWNER S ASSN	700 W HILLSBORO BLVD 101-1	DEERFIELD BEACH	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS

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16	484205080630	001	01 SINGLE FAMILY IMPROVED	1	HILTON MAURICE EAN	3820 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080650	000	00 VACANT RESIDENTIAL	0	ADIOS VILLAS HOMEOWNERS ASSN	700 W HILLSBORO BLVD 101-1	DEERFIELD BEACH	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080620	001	01 SINGLE FAMILY IMPROVED	1	ELLIS RICHARD L	3810 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080480	001	01 SINGLE FAMILY IMPROVED	1	WOIDA LEWIS	3550 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080580	001	01 SINGLE FAMILY IMPROVED	1	HOBB LEE	3730 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080490	001	01 SINGLE FAMILY IMPROVED	1	DURHAM ELIABETH A	3600 NW 71ST ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080610	001	01 SINGLE FAMILY IMPROVED	1	GUNTHER DAVID V	3800 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080600	001	01 SINGLE FAMILY IMPROVED	1	ALTEN THOMAS	3750 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080590	001	01 SINGLE FAMILY IMPROVED	1	WORRELL DENNIS L	3740 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	474232080080	001	01 SINGLE FAMILY IMPROVED	1	FRAY MICHAEL G DESIREEM	7112 CRESCENT CREEK WAY	COCONUT CREEK	FLORI	FLORID	COCONUT POINTE 164-27 B
16	474232081290	001	01 SINGLE FAMILY IMPROVED	1	BARROS CLYCIA	7109 CRESCENT CREEK WAY	COCONUT CREEK	FLORI	FLORID	COCONUT POINTE 164-27 B

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16	474233030140	001	01 SINGLE FAMILY IMPROVED	1	ALE AKIS SAM UEL P	4774 NW 1ST DR	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B
16	474233031820	001	01 SINGLE FAMILY IMPROVED	1	LIMA DILSON	363 CLIFF ST 6	FAIRVIEW	NEW	NEW E	CO UINA LAKES 105-22 B
16	474232080090	001	01 SINGLE FAMILY IMPROVED	1	RUBIALES PED RO STEPHANIE	7108 CRESCENT CREEK WAY	COCONUT CREEK	FLORI	FLORID	COCONUT POINTE 164-27 B
16	474232081280	001	01 SINGLE FAMILY IMPROVED	1	RUBMAN ADEL INE	7105 CRESCENT CREEK WAY	COCONUT CREEK	FLORI	FLORID	COCONUT POINTE 164-27 B
16	474233030110	001	01 SINGLE FAMILY IMPROVED	1	SORA SEBAST IAN A MARY	1 CHRISTIE CT	SOMERS	NEW Y	NEW YO	CO UINA LAKES 105-22 B
16	474233031850	001	01 SINGLE FAMILY IMPROVED	1	GRAHAM DIAN E E RAINFORD	221 NW 48TH AVE	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B
16	474233030580	001	01 SINGLE FAMILY IMPROVED	1	REYBURN PAM ELA S	4787 NW 1 DR	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B
16	474232080050	001	01 SINGLE FAMILY IMPROVED	1	RUI ALLEN	7126 CRESCENT CREEK WAY	COCONUT CREEK	FLORI	FLORID	COCONUT POINTE 164-27 B
16	474232081320	001	01 SINGLE FAMILY IMPROVED	1	CHAVES EDILS ON B WANDERLEIA	1504 NANDINA SR APT 711	ARLINGTON	TE AS	TE AS	COCONUT POINTE 164-27 B
16	474233030600	001	01 SINGLE FAMILY IMPROVED	1	GUSTAFSON S HARON	208 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B
16	474233037101	008	08 MULTI FAMILY LESS THAN 10 UNITS	0	RIVERGLEN HOMEOWNER S ASSN INC	1761 W HILLSBOROUG H BLVD STE 3	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B

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16	474232080100	001	01 SINGLE FAMILY IMPROVED	1	RODRIGUE R ONALD	7102 CRESCENT CREEK WAY	COCONUT CREEK	FLORI	FLORID	COCONUT POINTE 164-27 B
16	474233031840	001	01 SINGLE FAMILY IMPROVED	1	SCHMITT GRE GORY A	207 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B
16	474232080060	001	01 SINGLE FAMILY IMPROVED	1	MCDANIEL MIC HAEL SAIRIS	7122 CRESCENT CREEK WAY	COCONUT CREEK	FLORI	FLORID	COCONUT POINTE 164-27 B
16	474233030100	001	01 SINGLE FAMILY IMPROVED	1	UNGER BRYAN	146 NW 48 AVE	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B
16	484205080660	000	00 VACANT RESIDENTIAL	0	ADIOS VILLAS HOMEOWNER S ASSN	700 W HILLSBORO BLVD BLDG 1	DEERFIELD BEACH	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	474232081310	001	01 SINGLE FAMILY IMPROVED	1	MCKAY STEPH EN P	7125 CRESCENT CREEK WAY	COCONUT CREEK	FLORI	FLORID	COCONUT POINT 164-27 B
16	474233030560	001	01 SINGLE FAMILY IMPROVED	1	BANKS BURTO N	4775 NW 1 DR	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B
16	474232080070	001	01 SINGLE FAMILY IMPROVED	1	KRAUS DAWN M	7116 CRESCENT CREEK WAY	COCONUT CREEK	FLORI	FLORID	COCONUT POINTE 164-27 B
16	474232080130	001	01 SINGLE FAMILY IMPROVED	1	MARCELLO DI ANE 1/2 INT	3922 CRESCENT CREEK PL	COCONUT CREEK	FLORI	FLORID	COCONUT POINTE 164-27 B
16	474233030090	001	01 SINGLE FAMILY IMPROVED	1	VAN BUREN ROBE RT C CANDY	4765 NW 1ST PL	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B
16	484205080360	001	01 SINGLE FAMILY IMPROVED	1	BODNICK MAR Y O	3330 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS

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1310 Cross Creek Circle
Tallahassee FL 32301

16	484205080370	001	01 SINGLE FAMILY IMPROVED	1	KOVACS GLEN N OSEPH	3340 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	474232080110	001	01 SINGLE FAMILY IMPROVED	1	NATERA OSE R MILADY	3902 CRESCENT CREEK PL	COCONUT CREEK	FLORI	FLORID	COCONUT POINTE 164-27 B
16	474232080120	001	01 SINGLE FAMILY IMPROVED	1	GUARNIERI TO DD C MEGAN D	3912 CRESCENT CREEK PL	COCONUT CREEK	FLORI	FLORID	COCONUT POINTE 164-27 B
16	484205080350	001	01 SINGLE FAMILY IMPROVED	1	RUSSELL ROB ERT C	3320 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080460	001	01 SINGLE FAMILY IMPROVED	1	HINRICHS LIN DA	3510 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080450	001	01 SINGLE FAMILY IMPROVED	1	PUCCETTI RO BERT	3500 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080680	000	00 VACANT RESIDENTIAL	0	ADIOS VILLAS HOMEOWNER S ASSN	700 W HILLSBORO BLVD BLDG 1	DEERFIELD BEACH	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080670	000	00 VACANT RESIDENTIAL	0	ADIOS VILLAS HOMEOWNER S ASSN	PO BO 970546	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080440	001	01 SINGLE FAMILY IMPROVED	1	A IERE ROBE RT C	3450 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080380	001	01 SINGLE FAMILY IMPROVED	1	OYCE EREM Y	3350 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080340	001	01 SINGLE FAMILY IMPROVED	1	LEVIN RONNIE G	3310 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS

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1310 Cross Creek Circle
Tallahassee FL 32301

16	484205080540	001	01 SINGLE FAMILY IMPROVED	1	RUSSELL RICHARD D	3650 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080530	001	01 SINGLE FAMILY IMPROVED	1	REED CHARLES M	3640 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080550	001	01 SINGLE FAMILY IMPROVED	1	O CONNELL EDWARD 1/2 INT EA	3700 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	474232081300	001	01 SINGLE FAMILY IMPROVED	1	TAYLOR LEROY PAULINE	7119 CRESCENT CREEK WAY	COCONUT CREEK	FLORI	FLORID	COCONUT POINT 164-27 B
16	484205080520	001	01 SINGLE FAMILY IMPROVED	1	NAFTALY DAVID	11707 NW 69TH PL	PARKLAND	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	474232080140	001	01 SINGLE FAMILY IMPROVED	1	OUELLETTE DEAN ASHLEY	3932 CRESCENT CREEK PL	COCONUT CREEK	FLORI	FLORID	COCONUT POINTE 164-27 B
16	484205080430	001	01 SINGLE FAMILY IMPROVED	1	LIVINGSTON GILBERT A DIANE K	3440 NW 71ST ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080560	001	01 SINGLE FAMILY IMPROVED	1	MAGGIO DANIEL	3710 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080390	001	01 SINGLE FAMILY IMPROVED	1	HARDING MICHAEL T 1/2 INT	3400 NW 71 ST	COCONUT CREEK	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	484205080510	001	01 SINGLE FAMILY IMPROVED	1	LINDINE FRANK CAROLYN	7167 NW 67 WAY	PARKLAND	FLORI	FLORID	FLORIDA RESIDENTIAL CENTERS
16	474233031830	001	01 SINGLE FAMILY IMPROVED	1	EVANS STEVEN T SUSAN L	193 NW 48TH AVE	DEERFIELD BEACH	FLORI	FLORID	CO UINA LAKES 105-22 B

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1310 Cross Creek Circle
Tallahassee FL 32301

16	474232050010	001	01 SINGLE FAMILY IMPROVED	1	DE EN O SHA RON M	7601 NW 39 AVE	COCONUT CREEK	FLORI	FLORID	DE EN O PARCELS 143-31 B
16				0						
16	474232010170	000	00 VACANT RESIDENTIAL	0	FORREST ART HUR MIGNON	423 NE 3 ST	POMPANO BEACH	FLORI	FLORID	PALM BEACH FARMS 2-53 PB
16	474232010175	000	00 VACANT RESIDENTIAL	0	PINNELL ASO N KIMBERLY	7111 NW 48 WAY	COCONUT CREEK	FLORI	FLORID	PALM BEACH FARMS 2-53 PB
16	474232090030	000	00 VACANT RESIDENTIAL	0	KNASTER HO WARD	2321 DEER CREEK TRL	DEERFIELD BEACH	FLORI	FLORID	ESTATES OF COCONUT CREEK
16	474232090040	000	00 VACANT RESIDENTIAL	0	KNASTER HO WARD	2321 DEER CREEK TRL	DEERFIELD BEACH	FLORI	FLORID	ESTATES OF COCONUT CREEK
16				0						
16	474232090020	000	00 VACANT RESIDENTIAL	0	SOULARD MIC HEL	5209 NW 89 DR	POMPANO BEACH	FLORI	FLORID	ESTATES OF COCONUT CREEK
16	474232090010	000	00 VACANT RESIDENTIAL	0	LAPOINTE MA NON	5522 NW 39 AVE	COCONUT CREEK	FLORI	FLORID	ESTATES OF COCONUT CREEK
16				0						

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County

StcmFacilites.shp

DOH_Facilities.shp

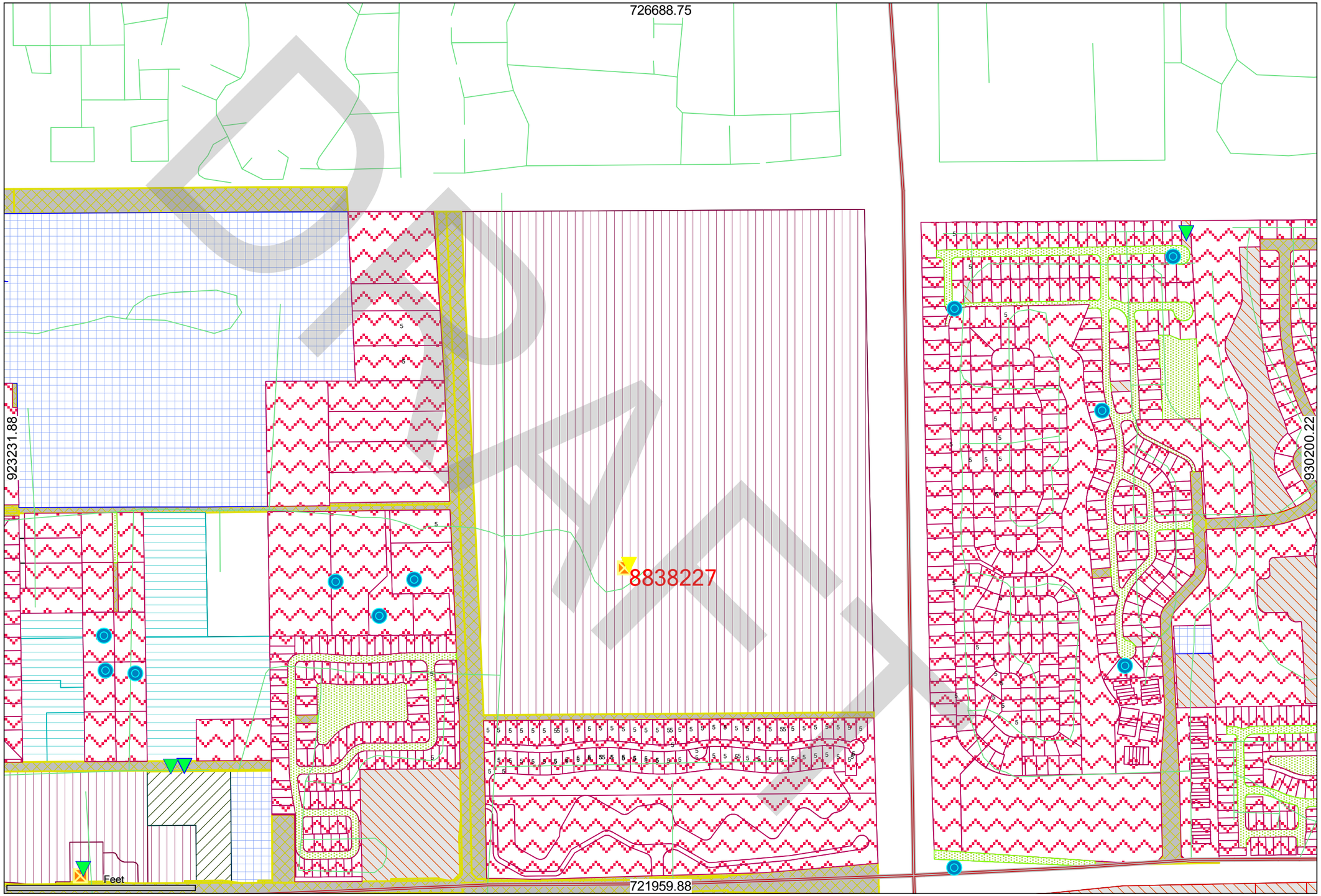
Wells.shp

Roads06.shp

- Interstate
- Local
- Primary
- Secondary
- Special/cloverleaf/roun
- Trail
- Walkway/Alley

Broward.shp

- Agricultural
- Commercial
- Government
- Industrial
- Institutional
- Miscellaneous
- Residential
- Unknown
- County Parcels



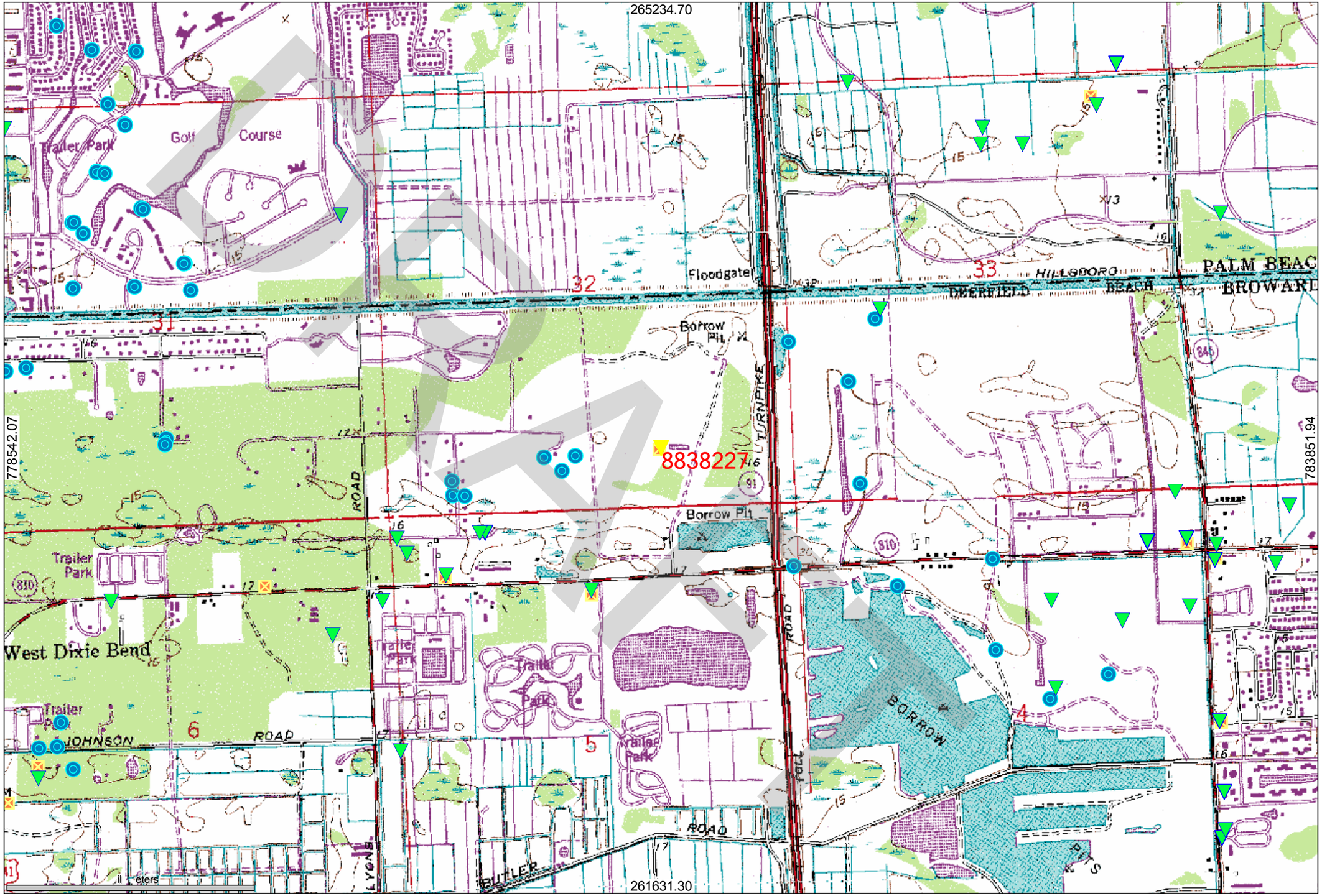
Scale 1:6000

Map Units: Feet

Date: 12/5/2008

View 1

- stcmfacs.shp
- doh_fac.shp
- wells.shp
- uads.shp



Scale 1:15000

Map Units: Meters

Date: 12/5/2008

Google Maps

Address



Google Maps

Address



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Department of
Environmental Protection

Jeb Bush
Governor

Twin Towers Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Colleen M. Castille
Secretary

JUL 27 2004

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CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Arthur Cobb
Adios Golf Club, Inc.
7740 NW 39th Avenue
Coconut Creek, FL 33073

Subject: Site Rehabilitation Completion Order
Adios Golf Club
7740 NW 39th Avenue
Coconut Creek, Broward County
FDEP Facility ID # 068838227
Discharge Date: March 27, 1991 (PCPP)
Discharge Score: 95

Dear Mr. Cobb:

The Broward County Department of Planning and Environmental Protection (DPEP) has reviewed the Limited Contamination Assessment Report and No Further Action Proposal (NFAP) dated March 2, 2004 (received April 21, 2004), and the Monitoring Well Abandonment Report dated June 15, 2004 (received June 24, 2004), prepared and submitted by Hydrologic Associates U.S.A., Inc. for the petroleum product discharge discovered at this site. Documentation submitted with the NFAP confirms that criteria set forth in Rule 62-770.680(1), Florida Administrative Code (F.A.C.), have been met. The NFAP is hereby incorporated by reference in this Site Rehabilitation Completion Order (Order). Therefore, you are released from any further obligation to conduct site rehabilitation at the site for petroleum product contamination associated with the discharge listed above, except as set forth below.

In the event concentrations of petroleum products' contaminants of concern increase above the levels approved in this Order, or if a subsequent discharge of petroleum or petroleum product occurs at the site, the Florida Department of Environmental Protection (Department) may require site rehabilitation to reduce concentrations of petroleum products' contaminants of concern to the levels approved in the NFAP or otherwise allowed by Chapter 62-770, F.A.C.

Legal Issues

The Department's Order shall become final unless a timely petition for an administrative proceeding (hearing) is filed under Sections 120.569 and 120.57, Florida Statutes (F.S.), within 21 days of receipt of this Order. The procedures for petitioning for a hearing are set forth below.

Persons affected by this Order have the following options:

(A) If you choose to accept the Department's decision regarding the NFAP you do not have to do anything. This Order is final and effective as of the date on the top of the first page of this Order.

(B) If you choose to challenge the decision, you may do the following:

(1) File a request for an extension of time to file a petition for hearing with the Agency Clerk in the Office of General Counsel of the Department within 21 days of receipt of this Order; such a request should be made if you wish to meet with the Department in an attempt to informally resolve any disputes without first filing a petition for hearing; or

(2) File a petition for administrative hearing with the Agency Clerk in the Office of General Counsel of the Department within 21 days of receipt of this Order.

Please be advised that mediation of this decision pursuant to Section 120.573, F.S., is not available.

How to Request an Extension of Time to File a Petition for Administrative Hearing

For good cause shown, pursuant to Rule 62-110.106(4), F.A.C., the Department may grant a request for an extension of time to file a petition for hearing. Such a request must be filed (received) by the Agency Clerk in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, within 21 days of receipt of this Order. Petitioner, if different from Adios Golf Club, Inc., shall mail a copy of the request to Mr. Arthur Cobb of Adios Golf Club, Inc. at the time of filing. Timely filing a request for an extension of time tolls the time period within which a petition for administrative hearing must be made.

How to File a Petition for Administrative Hearing

A person whose substantial interests are affected by this Order may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) by the Agency Clerk in the Office of General Counsel of the Department at 3900

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Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, within 21 days of receipt of this Order. Petitioner, if different from Adios Golf Club, Inc., shall mail a copy of the petition to Mr. Arthur Cobb of Adios Golf Club, Inc. at the time of filing. Failure to file a petition within this time period shall waive the right of anyone who may request an administrative hearing under Sections 120.569 and 120.57, F.S.

Pursuant to Subsections 120.54(5)(b)4. and 120.569(2), F.S., and Rule 28-106.201, F.A.C., a petition for administrative hearing shall contain the following information:

(a) The name, address, and telephone number of each petitioner, the name, address, and telephone number of the petitioner's representative, if any, the site owner's name and address, if different from the petitioner, the FDEP facility number, and the name and address of the facility;
(b) A statement of when and how each petitioner received notice of the Department's action or proposed action;
(c) An explanation of how each petitioner's substantial interests are or will be affected by the Department's action or proposed action;
(d) A statement of the material facts disputed by the petitioner, or a statement that there are no disputed facts;
(e) A statement of the ultimate facts alleged, including a statement of the specific facts the petitioner contends warrant reversal or modification of the Department's action or proposed action;
(f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the Department's action or proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
(g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the Department to take with respect to the Department's action or proposed action.

This Order is final and effective as of the date on the top of the first page of this Order. Timely filing a petition for administrative hearing postpones the date this Order takes effect until the Department issues either a final order pursuant to an administrative hearing or an Order Responding to Supplemental Information provided to the Department pursuant to meetings with the Department.

Judicial Review

Any party to this Order has the right to seek judicial review of it under Section 120.68, F.S., by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the Agency Clerk in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable

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filing fees with the appropriate district court of appeal. The notice of appeal must be filed within 30 days after this Order is filed with the clerk of the Department (see below).

Questions

Any questions regarding DPEP's review of your NFAP should be directed to Mr. Sat Mellacheruvu at (954) 519-1448. Questions regarding legal issues should be referred to the Department's Office of General Counsel at (850) 245-2242. Contact with any of the above does not constitute a petition for administrative hearing or request for an extension of time to file a petition for administrative hearing.

The FDEP Facility Number for this site is 068838227. Please use this identification on all future correspondence with the Department or DPEP.

Sincerely,

Michael E. Ashey, Chief
Bureau of Petroleum Storage Systems

MEA/sm

cc: Teresa Rahrig, FDEP Southeast District Office
Grace Rivera, FDEP – BPSS
Lorenzo Fernandez, P.E., EAR Manager, Broward County DPEP
James T. Miller, P.E., Hydrologic Associates U.S.A., Inc., 8925 SW 148th Street, Suite 212, Miami, FL 33176
File

FILING AND ACKNOWLEDGMENT
FILED, on this date, pursuant to §120.52 Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Nancy C Dan
Clerk
(or Deputy Clerk)

7-27-2004
Date

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P.E. CERTIFICATION

Limited Contamination Assessment Report and No Further Action Proposal
Adios Golf Club
7740 Northwest 39th Avenue
Coconut Creek, Broward County, Florida
FDEP Facility ID# 068838227.

I hereby certify that in my professional judgment, the components of this Site Assessment Report and No Further Action Proposal (NFAP) satisfy the requirements set forth in Chapter 62-770, Florida Administrative Code (F.A.C.), for No Further Action.

___ I personally completed this review

X This review was conducted by Sat Mellacheruvu working under my direct supervision.

David S. Vanlandingham, P.E.
Florida Professional Engineer No. 56751
Broward County DPEP

July 2004
Date

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APPENDIX B: Photographs of Medium and High Risk Sites

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Site 2 Capella Farms Inc
5730 N SR 7
Facility ID: 8625849
Risk Rating: Medium

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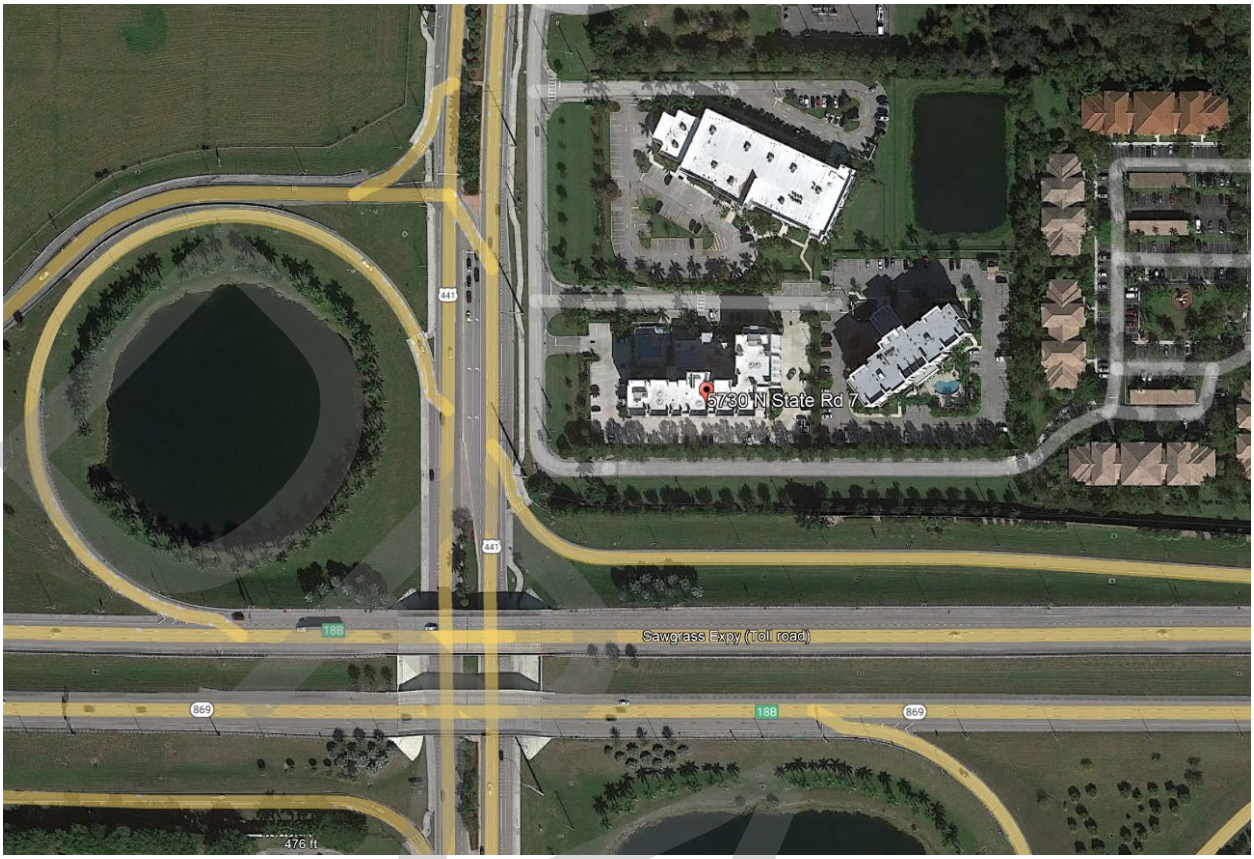
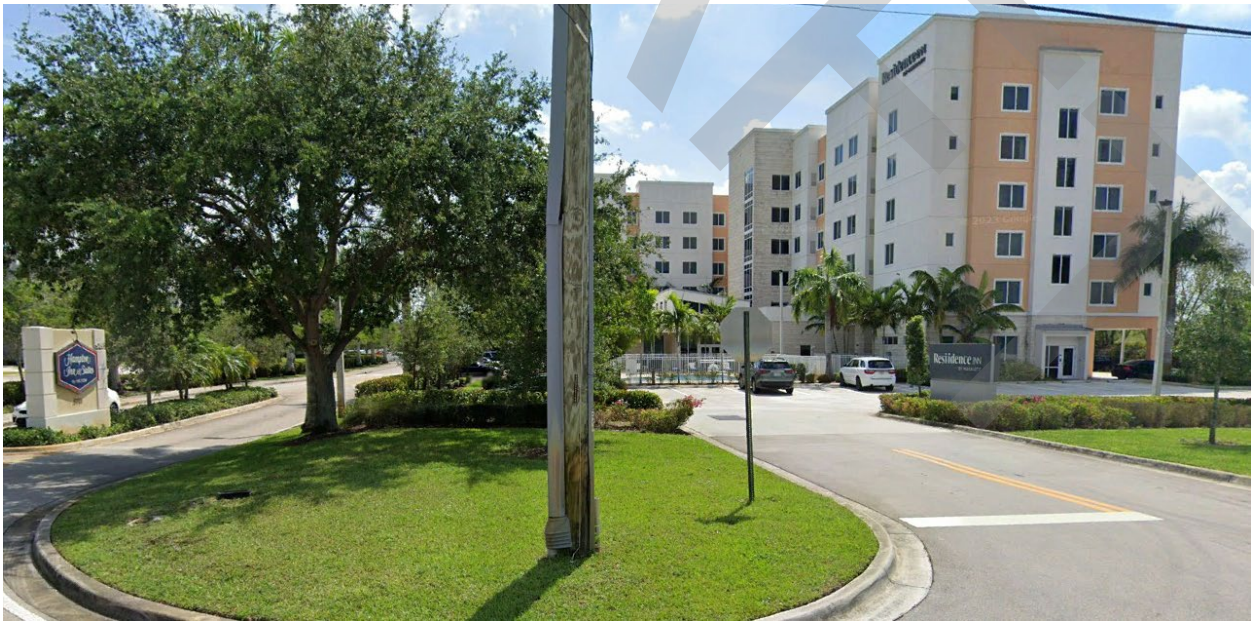


Aerial View



Facing southeast



Facing East

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Site 5 BOCA #7838
6330 N SR 7
Facility ID: 9807767
Risk Rating: Medium

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South East Elevation

305°NW (T) 26°18'23"N, 80°12'4"W ±16ft ▲ 25ft



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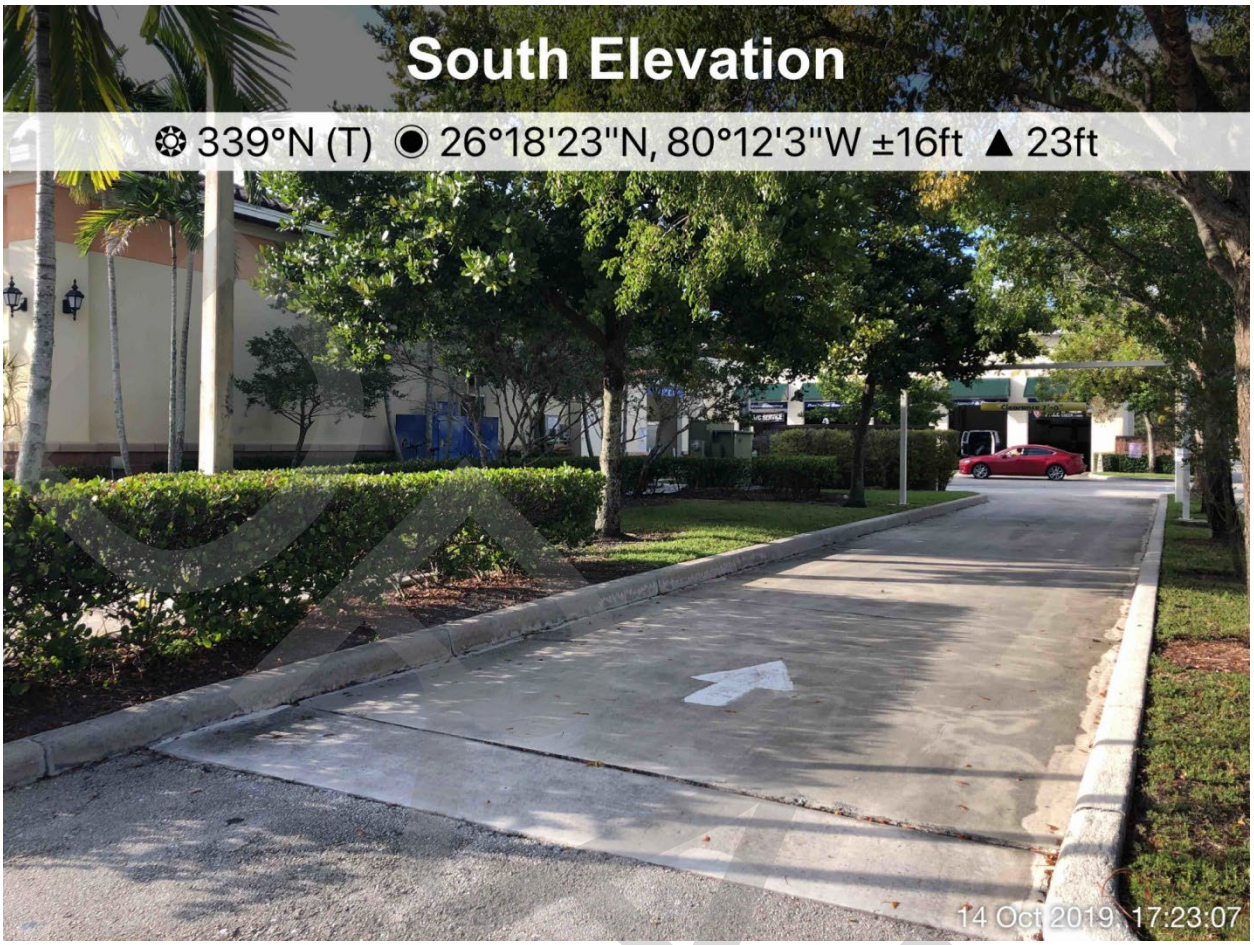
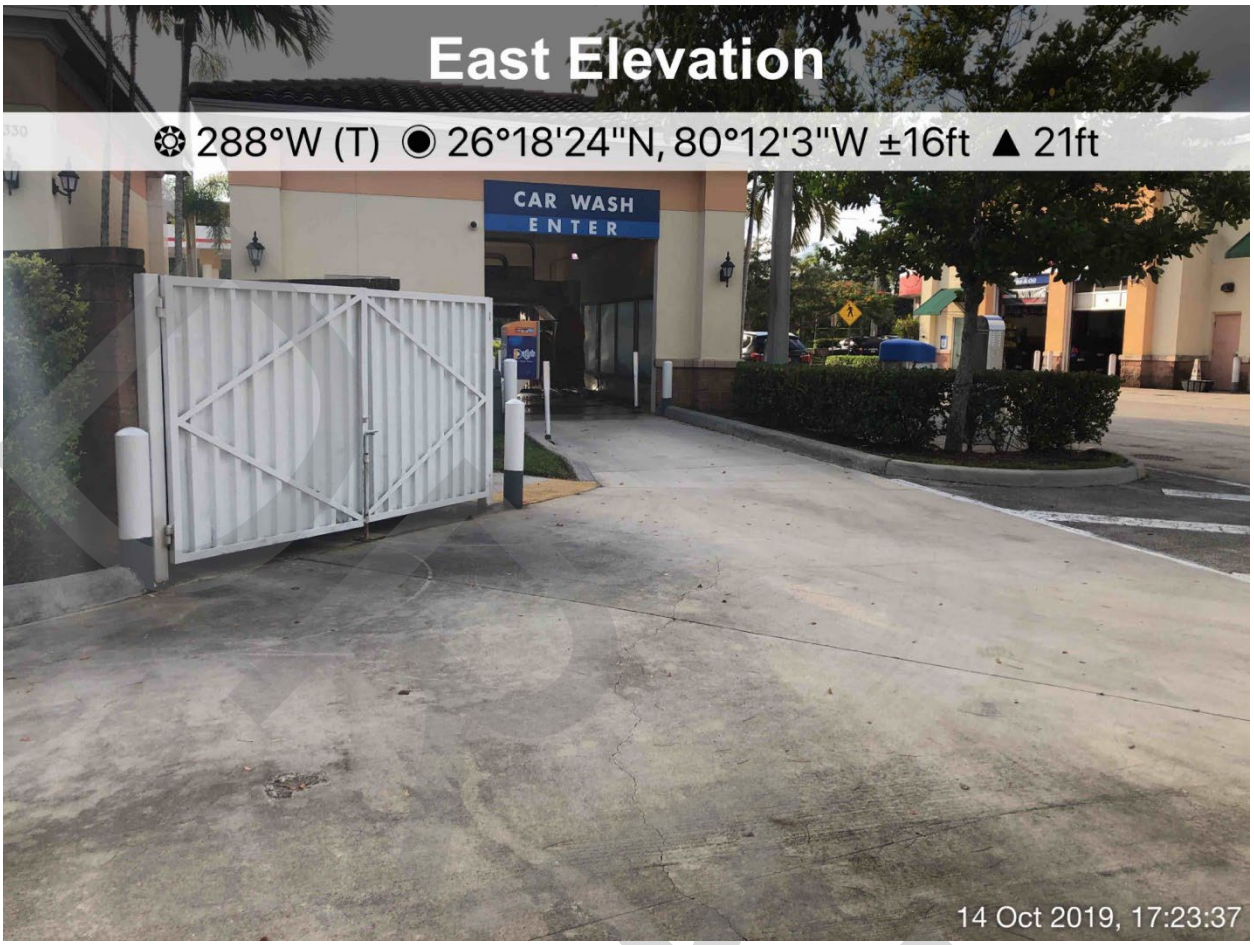

South Elevation
339°N (T) 26°18'23"N, 80°12'3"W ±16ft ▲ 23ft
14 Oct 2019, 17:23:07

DRAFT


East Elevation
288°W (T) 26°18'24"N, 80°12'3"W ±16ft ▲ 21ft
CAR WASH
ENTER
14 Oct 2019, 17:23:37

DRAFT


North East Elevation
228°SW (T) 26°18'24"N, 80°12'3"W ±16ft 21ft
14 Oct 2019, 17:23:43

DRAFT

East Elevation

269°W (T) 26°18'24"N, 80°12'4"W ±16ft ▲ 22ft



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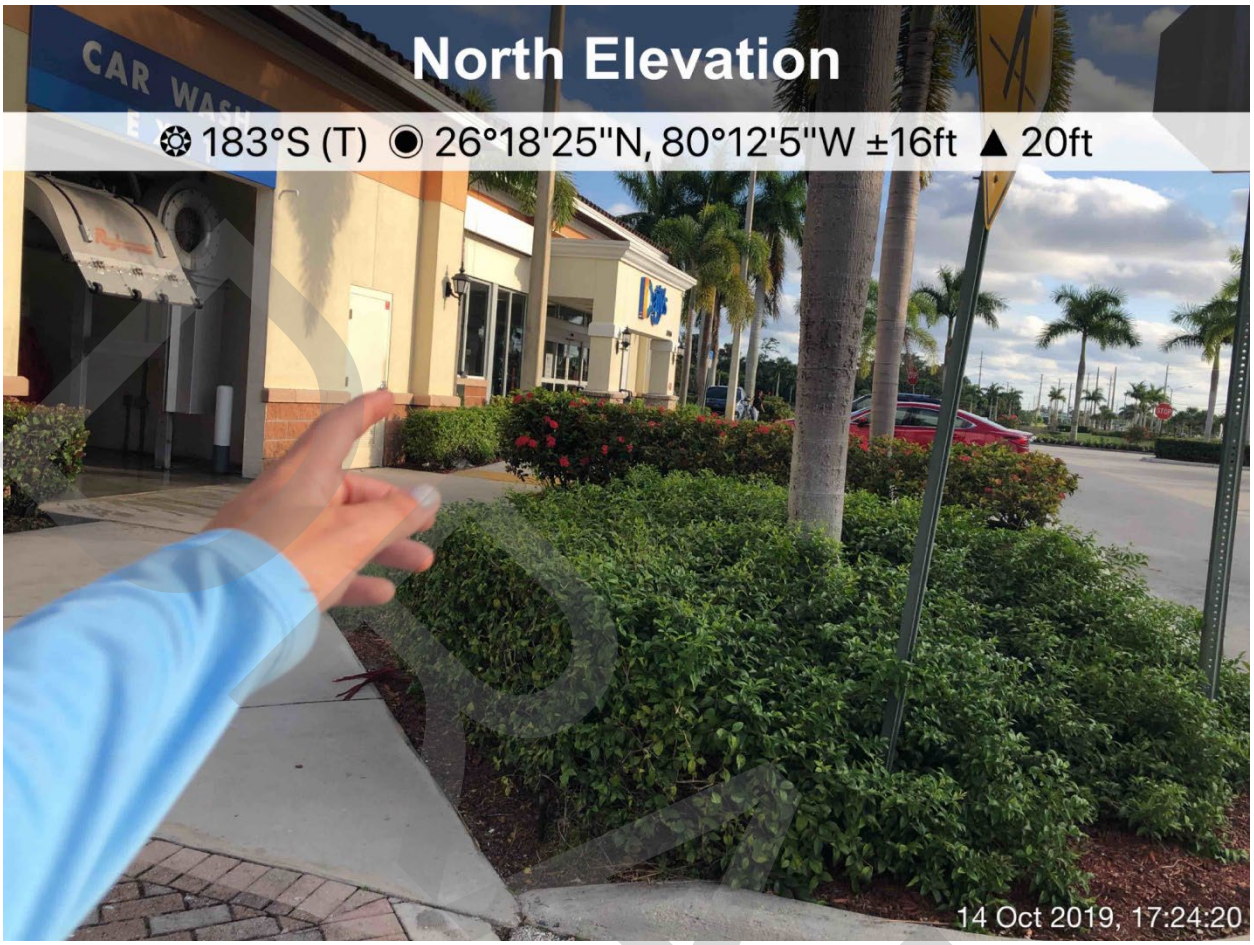
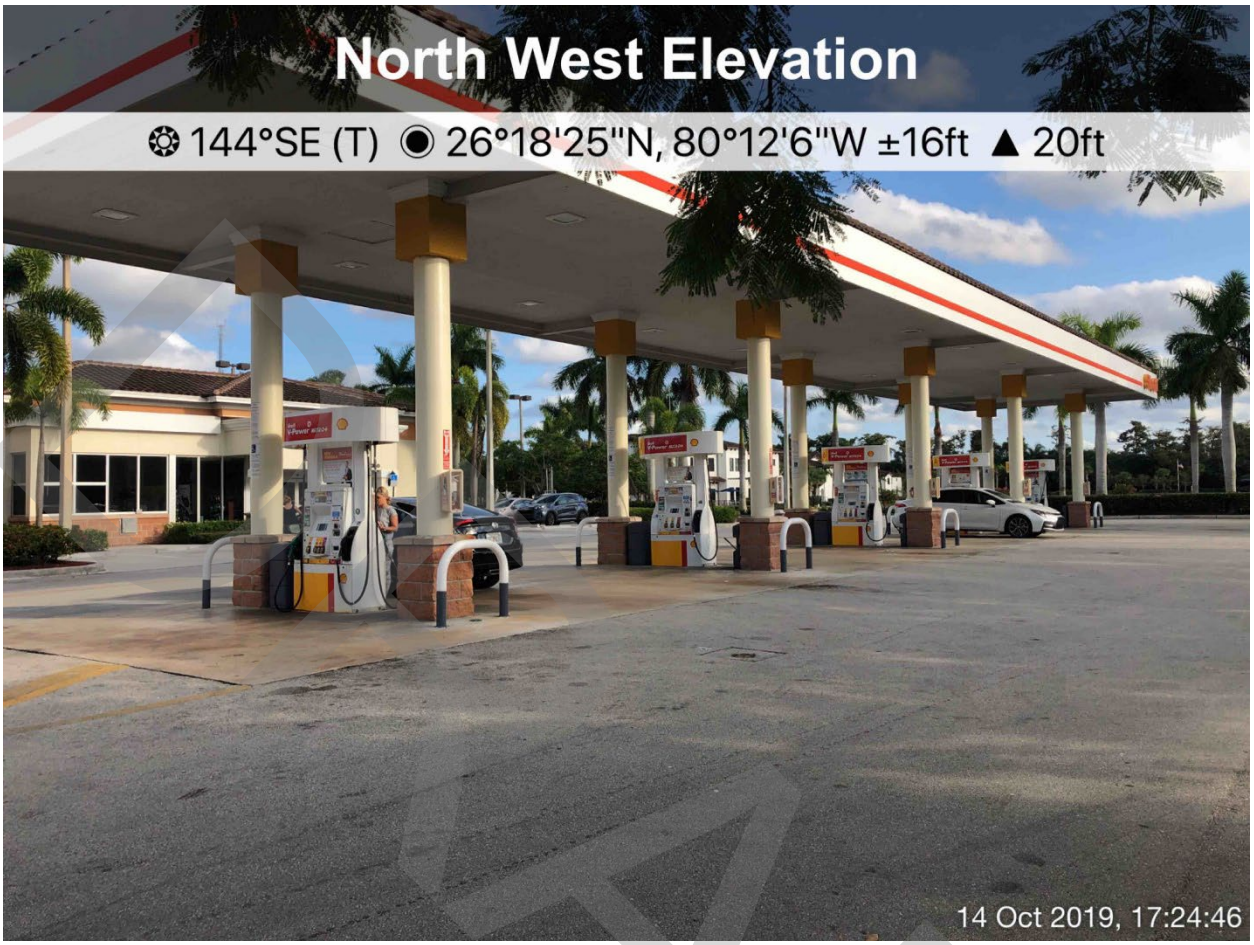

North Elevation
183°S (T) 26°18'25"N, 80°12'5"W ±16ft 20ft
14 Oct 2019, 17:24:20

DRAFT


North East Elevation
207°SW (T) 26°18'25"N, 80°12'5"W ±16ft 20ft
14 Oct 2019, 17:24:24

DRAFT


North West Elevation
144°SE (T) 26°18'25"N, 80°12'6"W ±16ft ▲ 20ft
14 Oct 2019, 17:24:46

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Site 7 Marathon – Winston Park
5425 Lyons Rd
Facility ID: 9801357
Risk Rating: Medium

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North Elevation
172°S (T) 26°17'55"N, 80°11'13"W ±16ft ▲ 18ft
14 Oct 2019, 17:01:54

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North East Elevation
224°SW (T) 26°17'54"N, 80°11'12"W ±16ft ▲18ft
14 Oct 2019, 17:02:08

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North East Elevation

223°SW (T) 26°17'54"N, 80°11'12"W ±16ft ▲ 19ft



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South West Elevation
26°NE (T) 26°17'53"N, 80°11'14"W ±16ft ▲ 13ft
14 Oct 2019, 17:00:23

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South Elevation
21°N (T) 26°17'53"N, 80°11'14"W ±16ft ▲ 18ft
14 Oct 2019, 17:00:36

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South West Elevation
48°NE (T) 26°17'54"N, 80°11'14"W ±16ft 17ft
14 Oct 2019, 17:01:14

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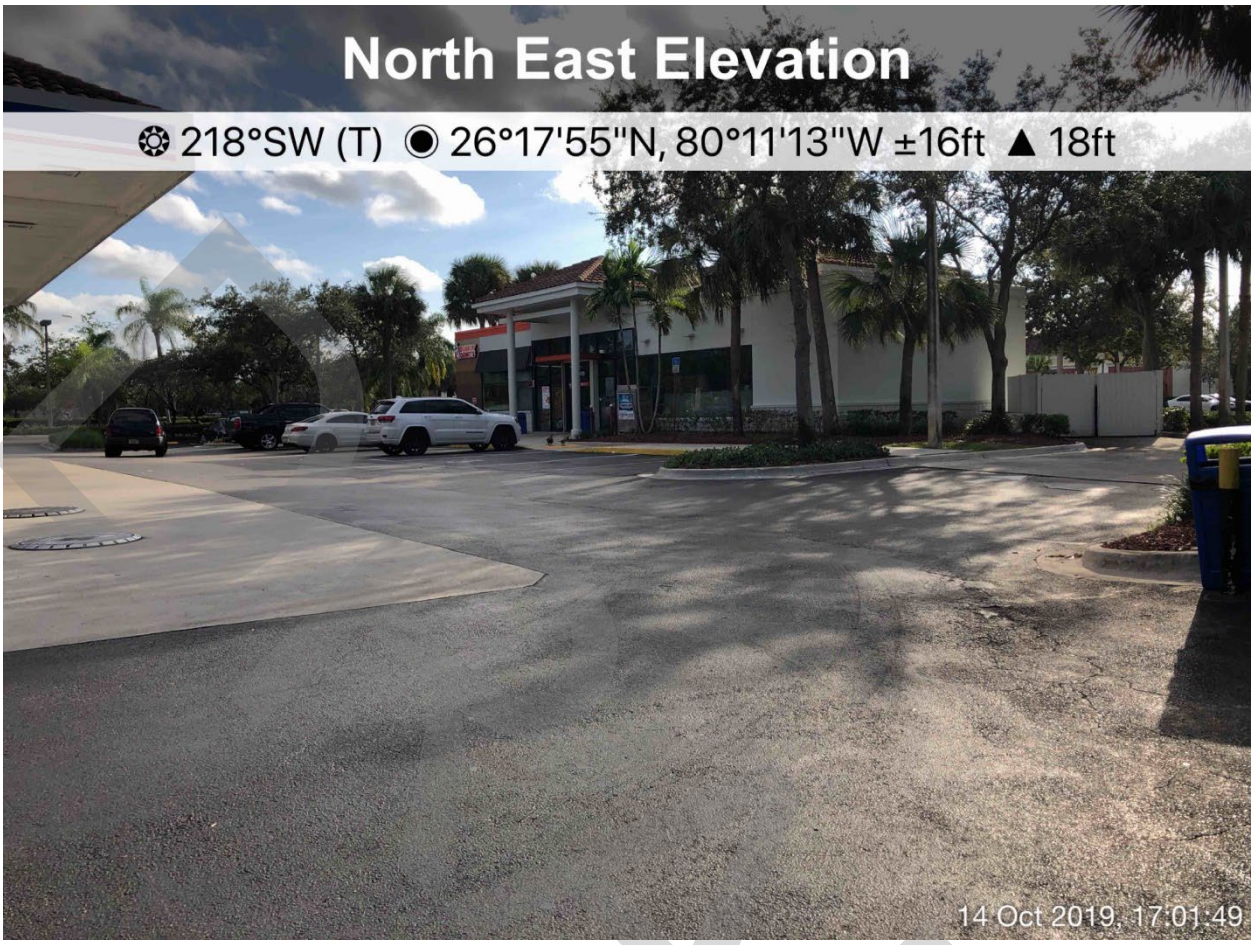
North East Elevation
218°SW (T) 26°17'55"N, 80°11'13"W ±16ft ▲ 18ft
14 Oct 2019, 17:01:49

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Site 8 Coconut Creek – Shell Station
6135 Lyons Road
Facility ID: 9805503
Risk Rating: Medium

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South Elevation
343°N (T) 26°18'19"N, 80°11'12"W ±16ft ▲ 15ft
14 Oct 2019, 16:56:27

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North East Elevation

241°SW (T) 26°18'22"N, 80°11'12"W ±16ft ▲ 15ft



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North East Elevation

208°SW (T) 26°18'22"N, 80°11'12"W ±16ft ▲ 14ft



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East Elevation
269°W (T) 26°18'22"N, 80°11'13"W ±16ft 14ft
Office DEPOT OfficeMax
NOW ONE COMPANY.
MAKING BUSINESS PERSONAL
AIR
14 Oct 2019, 16:54:11

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North Elevation
199°S (T) 26°18'22"N, 80°11'13"W ±16ft ▲ 15ft
14 Oct 2019, 16:54:30

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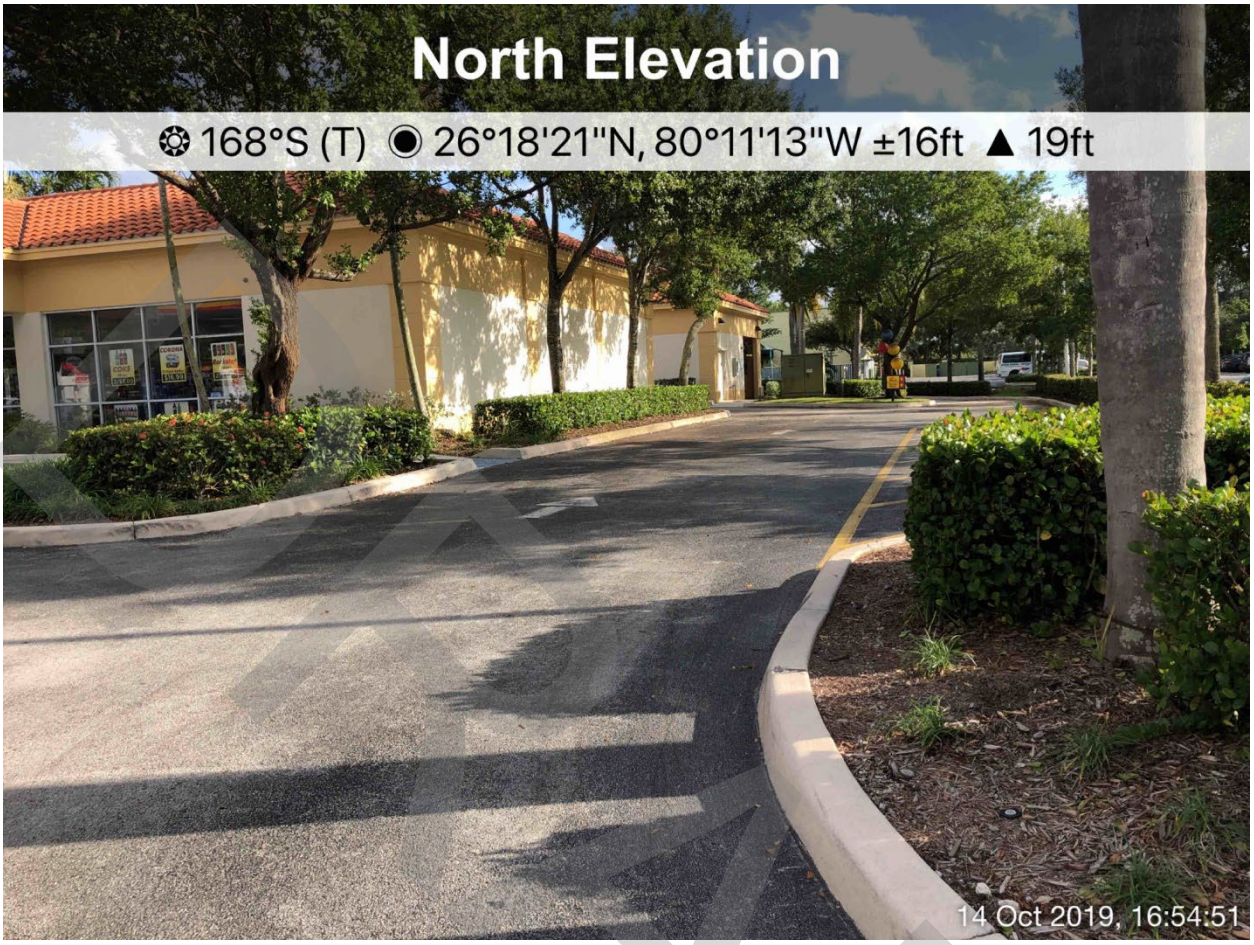
North Elevation
168°S (T) 26°18'21"N, 80°11'13"W ±16ft ▲ 19ft
14 Oct 2019, 16:54:51

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South Elevation
14°N (T) 26°18'20"N, 80°11'14"W ±16ft 1ft
14 Oct 2019, 16:55:28

DRAFT


West Elevation
68°E (T) 26°18'19"N, 80°11'14"W ±16ft ▲ 16ft
14 Oct 2019, 16:55:41

DRAFT


South East Elevation
321°NW (T) 26°18'19"N, 80°11'12"W ±16ft ▲ 16ft
R+L
CARRIERS
14 Oct 2019, 16:56:23

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Site 13 Monarch Hill
2700 Wiles Road
Facility ID: 8622531
Risk Rating: Medium

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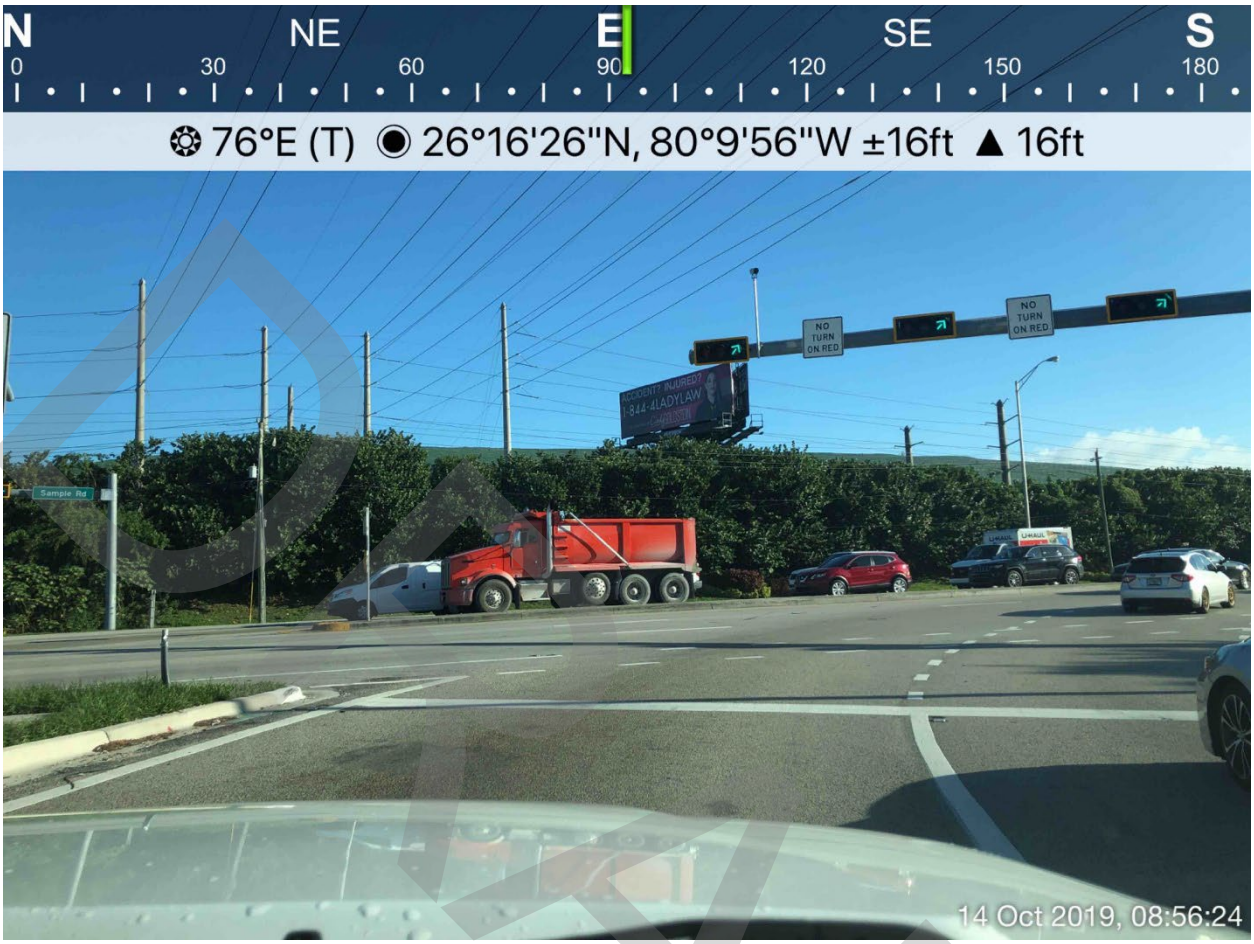
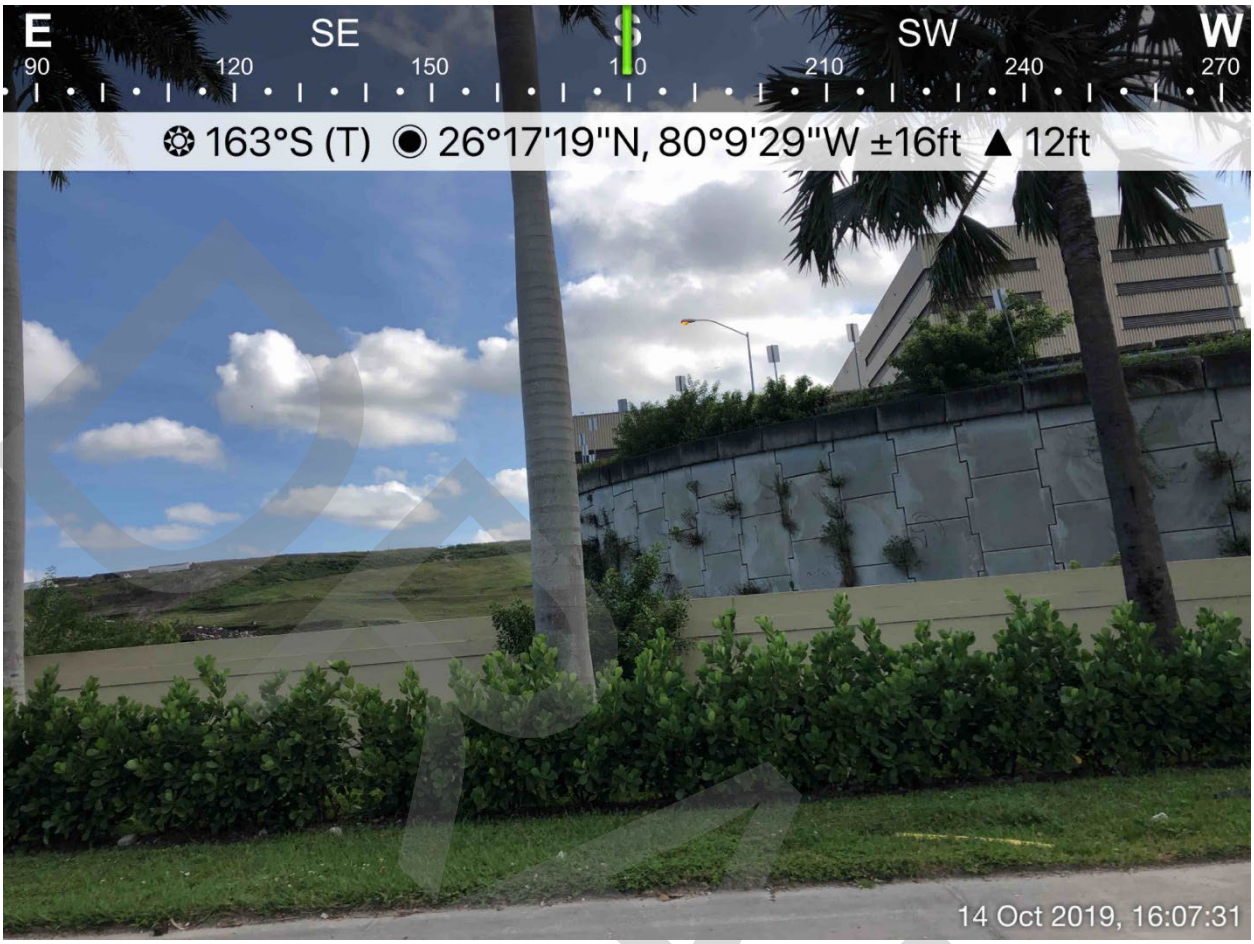

N
NE
E
SE
S
0
30
60
90
120
150
180
76°E (T) 26°16'26"N, 80°9'56"W ±16ft 16ft
NO TURN ON RED
NO TURN ON RED
Sample Rd
14 Oct 2019, 08:56:24

DRAFT


E
SE
S
SW
W
90
120
150
180
210
240
270
163°S (T)
26°17'19"N, 80°9'29"W ±16ft
12ft
14 Oct 2019, 16:07:31

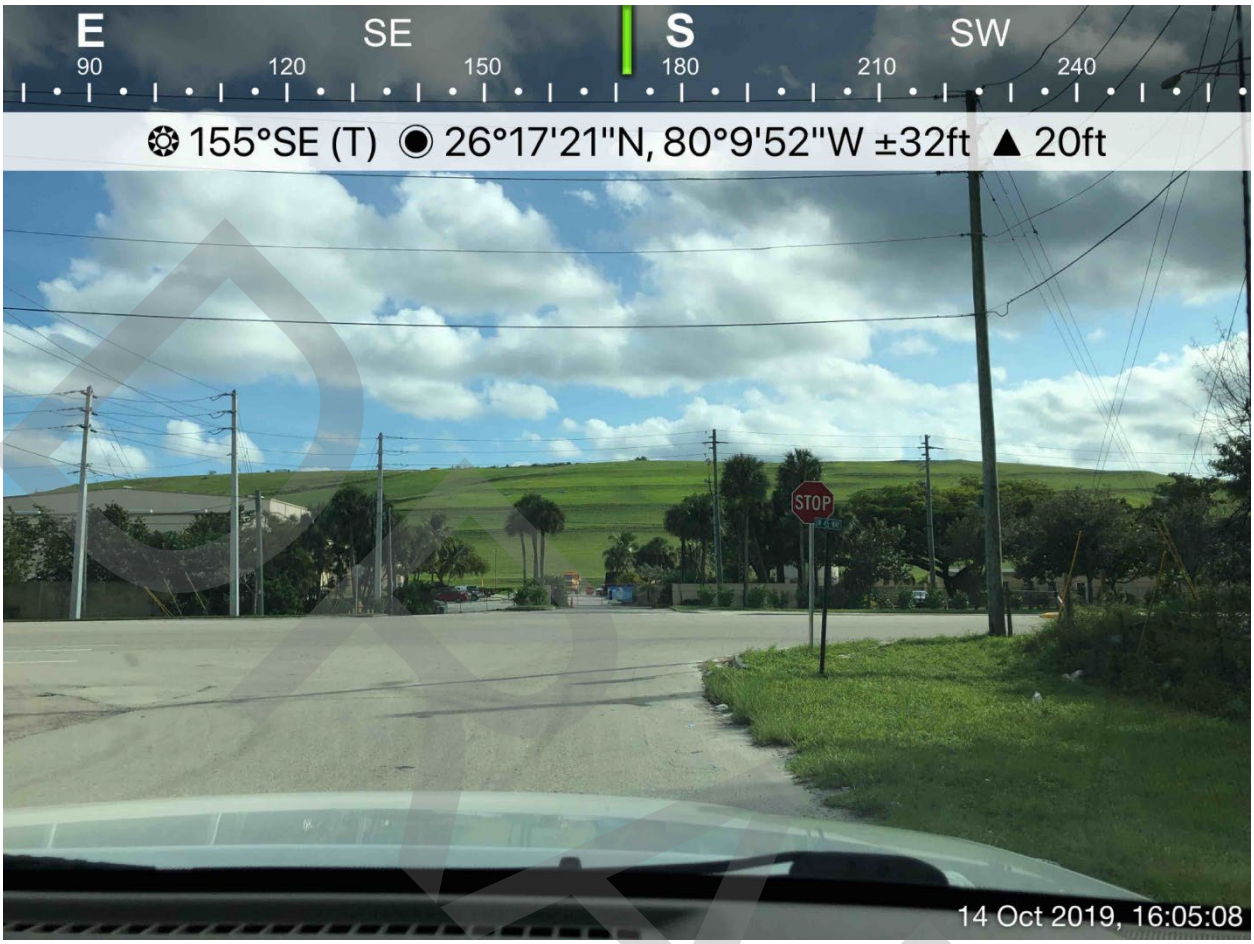
DRAFT


SW
W
NW
N
210
240
270
300
330
0
261°W (T) 26°17'22"N, 80°9'9"W ±16ft ▲ 7ft
14 Oct 2019, 15:44:08

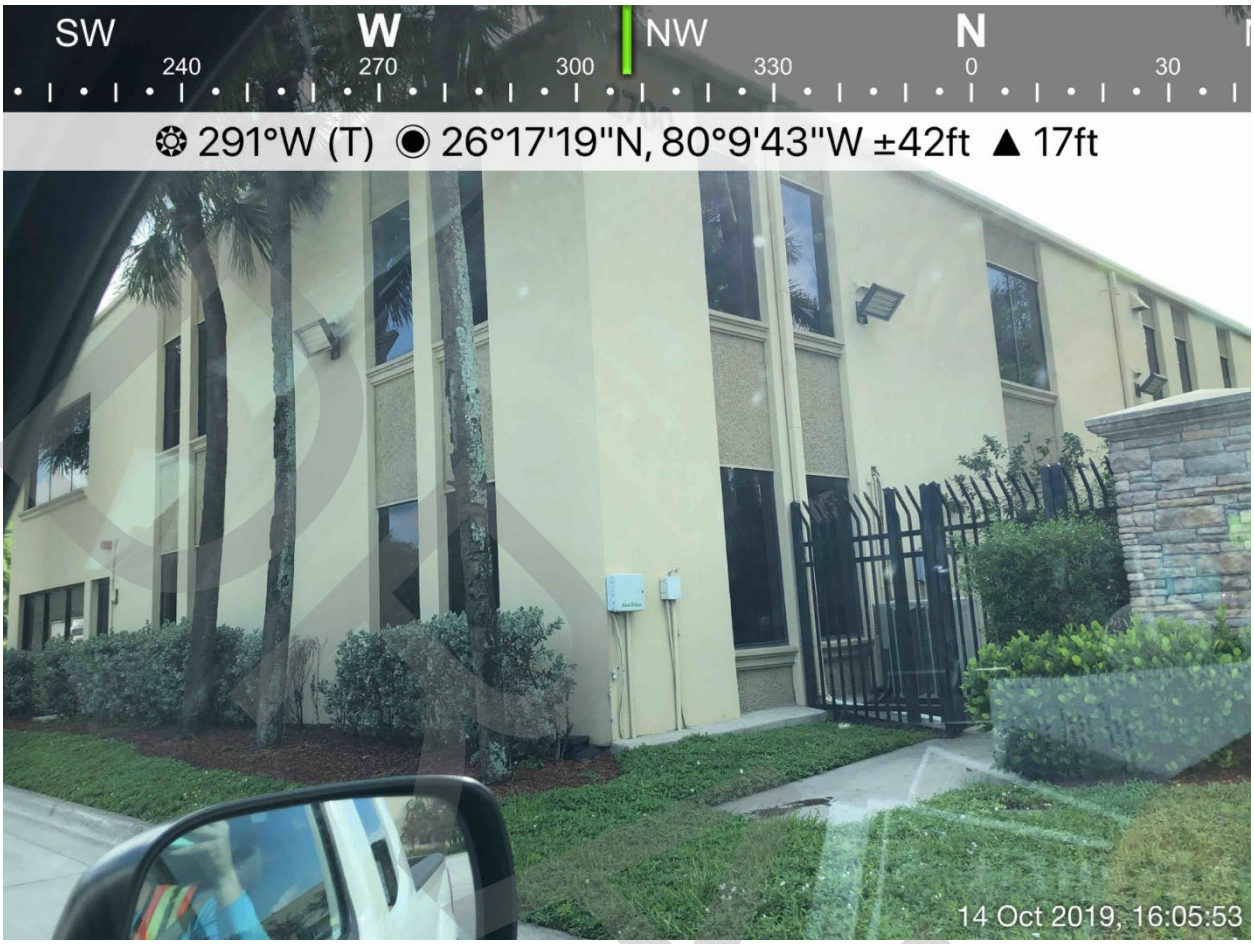
DRAFT


S
SW
W
NW
180
210
240
270
300
330
247°SW (T)
26°17'21"N, 80°9'11"W ±16ft
5ft
14 Oct 2019, 15:44:27

DRAFT


E
SE
S
SW
90
120
150
180
210
240
155°SE (T)
26°17'21"N, 80°9'52"W ±32ft
20ft
STOP
14 Oct 2019, 16:05:08

DRAFT


SW
W
NW
N
240
270
300
330
0
30
291°W (T)
26°17'19"N, 80°9'43"W ±42ft
17ft
14 Oct 2019, 16:05:53


NW
N
NE
E
300
330
0
30
60
90
354°N (T) 26°17'17"N, 80°9'43"W ±16ft ▲ 24ft
WASTE MANAGEMENT INC. OF FLORIDA
NO HAZARDOUS WASTE ACCEPTED
SUCH AS PCB's, BIOHAZARDOUS WASTE, LIQUIDS, LEAD ACID BATTERIES, USED OIL OR WASTE DRUMS. NO MERCURY CONTAINING DEVICES.
ALL VEHICLES ENTERING THIS FACILITY ARE SUBJECT TO RANDOM LOAD INSPECTIONS
NO SALVAGING OF ANY KIND
NO SMOKING
NO CHILDREN ALLOWED
ALL CASH, CREDIT CARD AND CHECK CUSTOMERS
CAUTION
ASBESTOS WASTE DISPOSAL SITE
15
M.P.H.
NO PASSING
USE SCALE 1
954-984-2000
REFLECTIVE SAFETY VESTS & SAFETY BOOTS
REQUIRED
14 Oct 2019, 16:06:12

DRAFT


W
NW
N
NE
240
270
300
330
0
30
60
311°NW (T)
26°17'17"N, 80°9'43"W ±16ft
22ft
STOP
14 Oct 2019, 16:06:23


E
SE
S
SW
60
90
120
150
180
210
240
136°SE (T)
26°17'19"N, 80°9'38"W ±16ft
15ft
14 Oct 2019, 16:07:12

DRAFT


E
SE
S
SW
W
90
120
150
180
210
240
270
162°S (T)
26°17'19"N, 80°9'36"W ±16ft
11ft
14 Oct 2019, 16:07:17

DRAFT

Site 15 Shell-First Coast Energy #1836
1011 S Powerline Road
Facility ID: 9800891
Risk Rating: Medium

DRAFT


W
NW
N
NE
240
270
300
330
0
30
304°NW (T) 26°18'12"N, 80°9'10"W ±16ft ▲ 10ft
14 Oct 2019, 15:28:59


SE
S
SW
W
NW
150
180
210
240
270
300
210°SW (T) 26°18'14"N, 80°9'11"W ±16ft ▲ 9ft
14 Oct 2019, 15:30:21

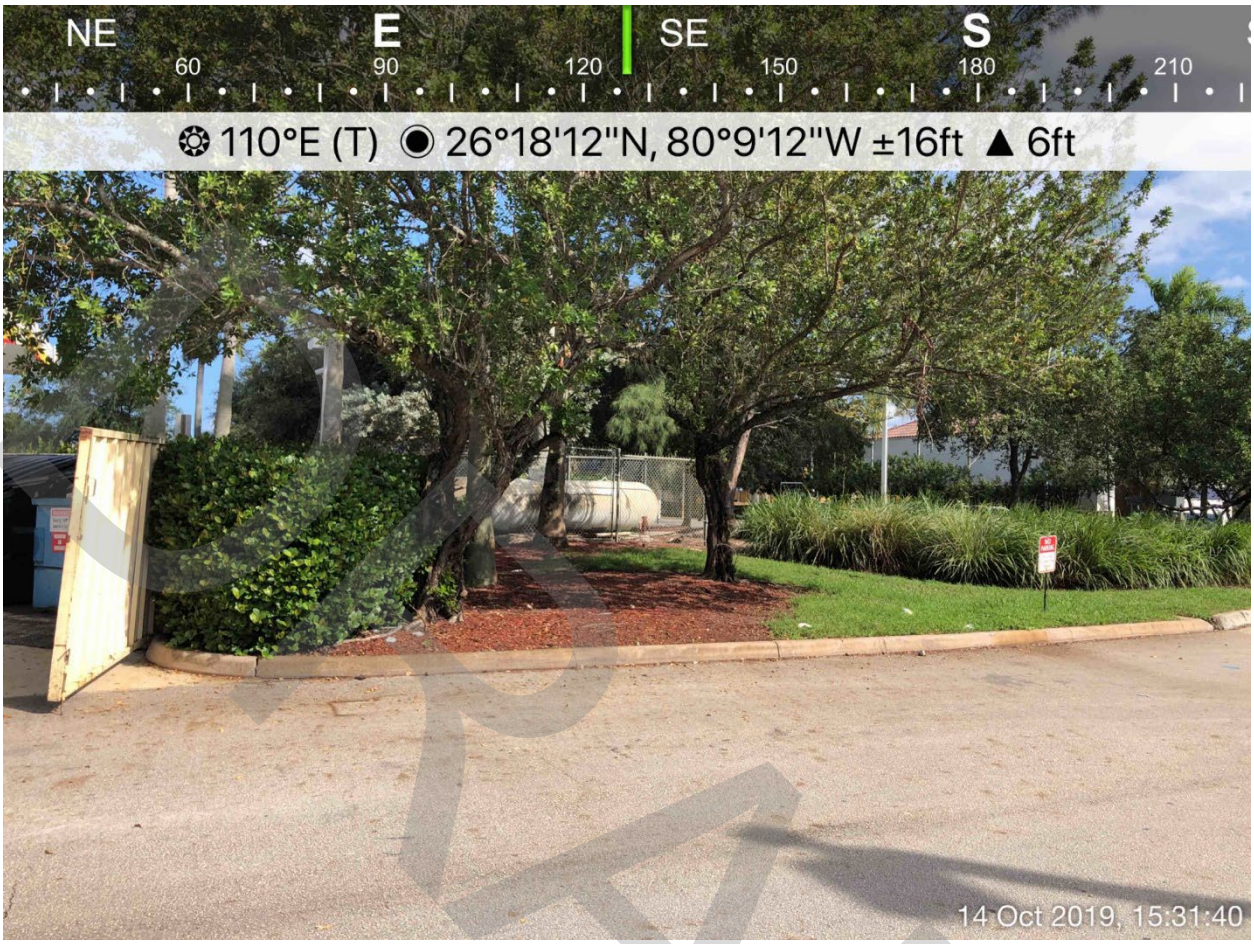
DRAFT


SE
S
SW
W
120
150
180
210
240
270
171°S (T)
26°18'14"N, 80°9'11"W ±16ft
9ft
14 Oct 2019, 15:30:24

DRAFT

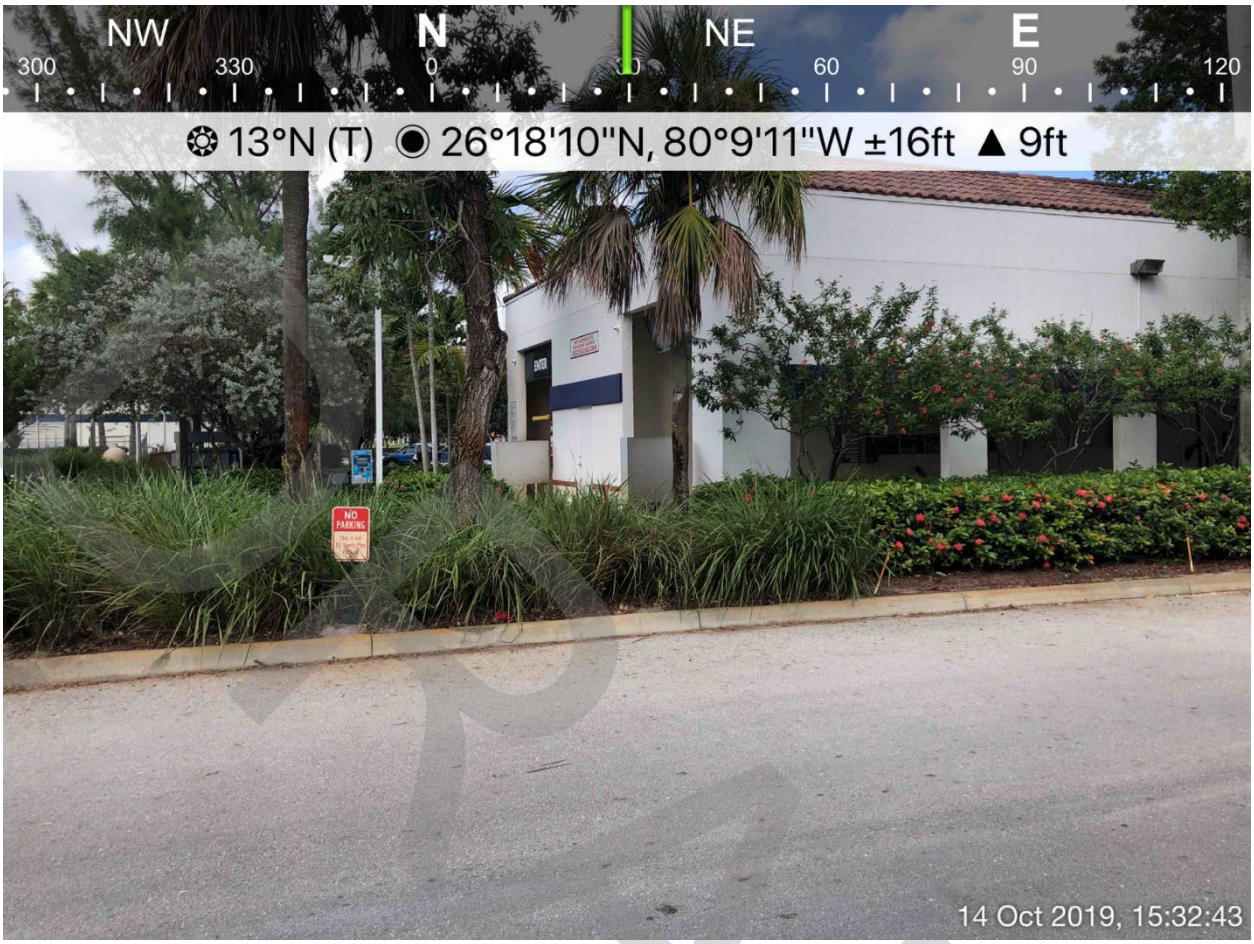

E
SE
S
SW
60
90
120
150
180
210
240
134°SE (T)
26°18'13"N, 80°9'12"W ±16ft
8ft
14 Oct 2019, 15:31:07

DRAFT


NE
E
SE
S
60
90
120
150
180
210
110°E (T) 26°18'12"N, 80°9'12"W ±16ft ▲ 6ft
14 Oct 2019, 15:31:40

DRAFT


NE
E
SE
S
30
60
90
120
150
180
99°E (T)
26°18'11"N, 80°9'12"W ±16ft
9ft
ENTER
SELECT YOUR WASH
SELF SERVICE CAR WASH
Credit & Cash Accepted
Boats & Large Vehicles Welcome
14 Oct 2019, 15:32:15


NW
N
NE
E
300
330
0
30
60
90
120
13°N (T) 26°18'10"N, 80°9'11"W ±16ft 9ft
NO PARKING
14 Oct 2019, 15:32:43


W
270
NW
300
330
N
0
NE
30
60
324°NW (T) 26°18'11"N, 80°9'11"W ±16ft 13ft
14 Oct 2019, 15:24:42

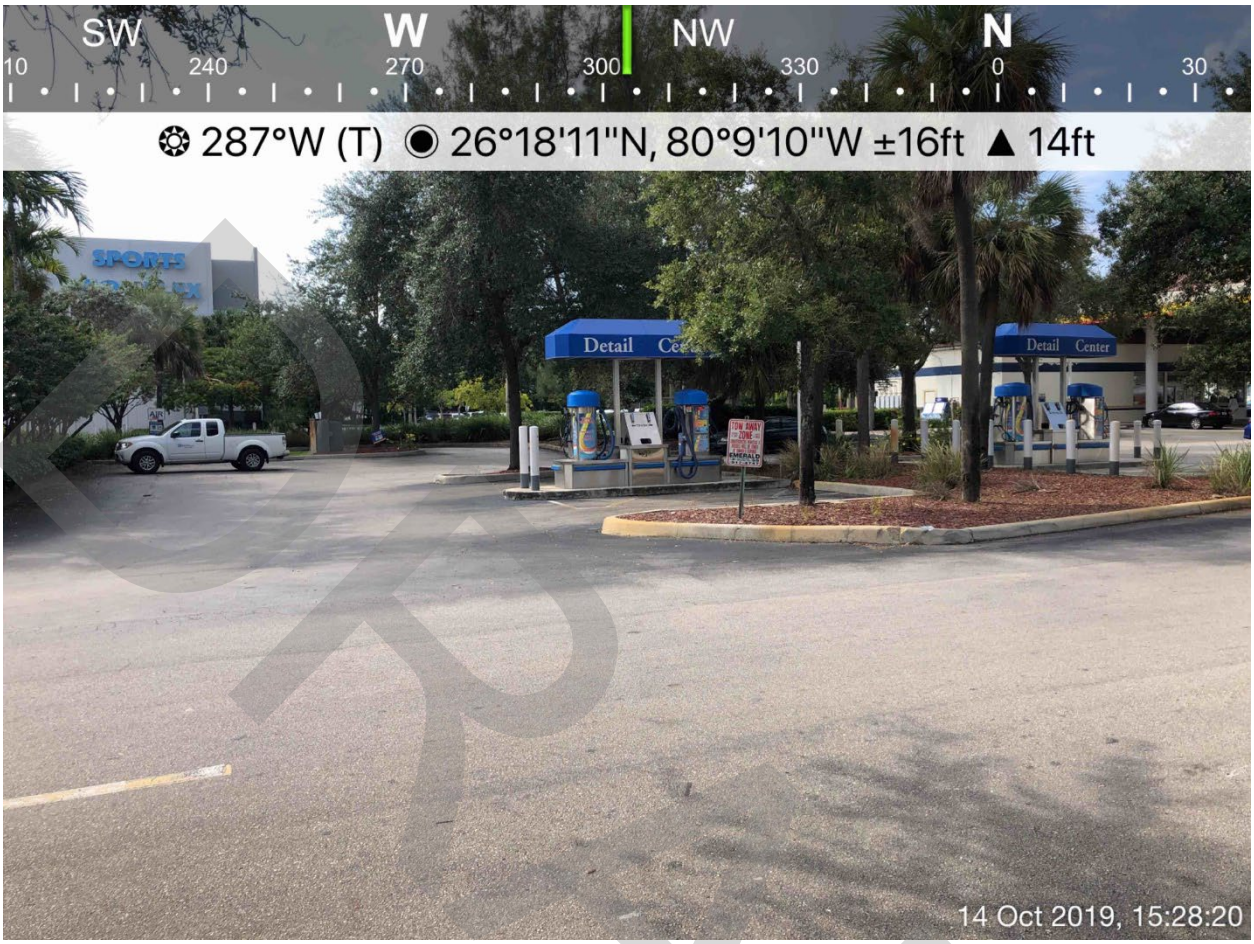

W
270
NW
300
330
N
0
NE
30
60
324°NW (T)
26°18'11"N, 80°9'11"W ±16ft
11ft
14 Oct 2019, 15:24:49

DRAFT


SW
W
NW
N
NE
240
270
300
330
0
30
299°NW (T)
26°18'12"N, 80°9'11"W ±16ft
9ft
14 Oct 2019, 15:24:58


S
180
210
SW
240
W
270
300
NW
330
245°SW (T)
26°18'11"N, 80°9'10"W ±16ft
16ft
EXIT
14 Oct 2019, 15:28:13

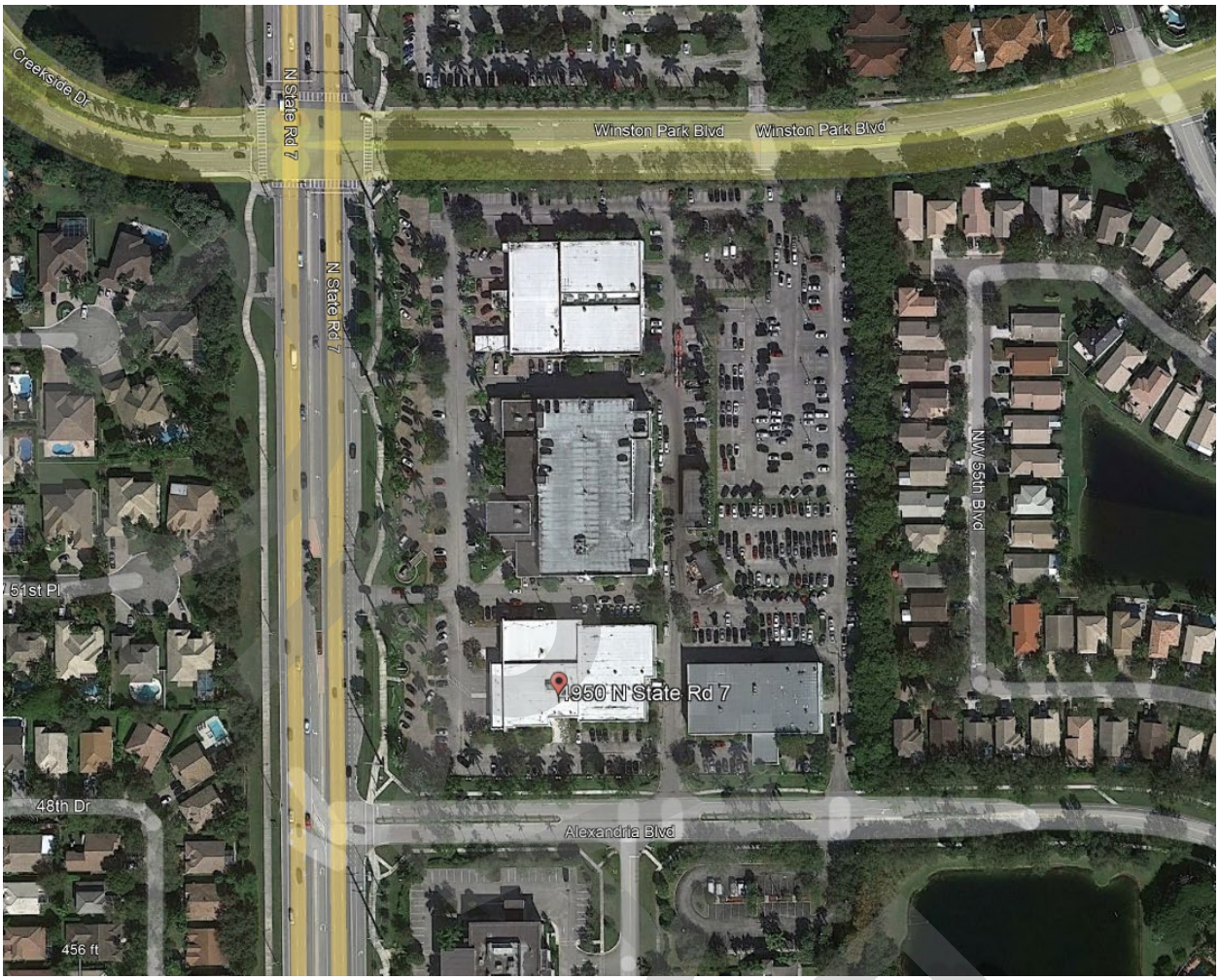
DRAFT


SW
W
NW
N
10
240
270
300
330
0
30
287°W (T)
26°18'11"N, 80°9'10"W ±16ft
14ft
SPORTS
Detail
Detail Center
14 Oct 2019, 15:28:20

DRAFT

Site 16 Coconut Creek Mitsubishi
4950 N State Road 7
Facility ID FLR000050419
Risk Rating: Medium

DRAFT



Aerial View of Coconut Creek Mitsubishi at 4950 N SR 7



Main building, facing northeast



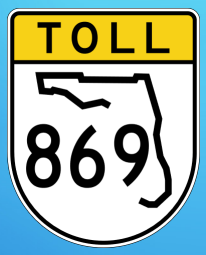
View of entrance to service center, facing east



Entrance from US 441, facing East



Rear entrance from Alexandria Blvd, facing north



FDOT



www.floridasturnpike.com/sawgrass