



## Appendix F – Supplemental Information



Map ID 2: Former Dixie Southern Industrial

**Nicole Christensen**

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**From:** noreply@salesforce.com on behalf of Susan Stephens <publicrecordsrequests\_regulatory@dep.state.fl.us>  
**Sent:** Tuesday, January 17, 2023 11:15 AM  
**To:** Maliah Moreno  
**Subject:** No records found matching provided criteria-205 Denton Ave., Auburndale, FL. [ ref:\_00DG0i115.\_5004w2WY6IT:ref ]  
**Attachments:** Facility Detailed List Report 139899\_pdf.html



Good morning Ms. Moreno,

This email relates to your request for (205 Denton Ave., Auburndale, FL.) The Florida Department of Environmental Protection would like to inform you that no records were found matching the provided criteria. Please try contacting the EPA as they may have the records that you are searching for.

<https://www.epa.gov/aboutepa/forms/contact-epa>

Please be advised that name variations, misspellings and incorrect addresses may not indicate the existence of actual files, and the Department will not be responsible for records not retrieved based on such information being submitted to us. Although we have made a diligent search to fulfill your request, files may still exist in other agencies of which we are not the records custodian that may contain information related to your request. Therefore, please reach out to the respective county as applicable.

Polk- <https://www.polk-county.net/>

Polk County Health Department <http://polk.floridahealth.gov/>

If you have any questions, please feel free to contact us.

Thank you for contacting DEP. Have a great day!

Susan Stephens

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Did you know you can access many public records from your personal computer using our free public online resources? The Florida Department of Environmental Protection has several public online databases where records are stored: OCULUS, DEP Information Portal and Map Direct.

Please look below for more information on each database. For your future records needs, you might try checking out one of these databases before submitting a request.

- OCULUS
  - You can search for records in OCULUS using a facility-site ID, facility address, or facility name.
  - You can open OCULUS [here](#).
  - If you need help maneuvering OCULUS, please use this helpful guide: [OCULUS Instruction](#).
- DEP Information Portal
  - You can search for records in the DEP Information Portal using a facility-site ID, facility address, or facility name.
  - You can open the DEP Information Portal [here](#).
  - If you need help maneuvering the DEP Information Portal, please use this helpful guide: [DEP Portal Instruction](#).
- Map Direct
  - You can search for records using Map Direct using a facility address.
  - You can open Map Direct [here](#).
  - If you need help maneuvering Map Direct, please use this helpful guide: [Map Direct Instruction](#).

In accordance with Chapter 119, Florida Statutes, public records requests will be processed within a reasonable time, and each request is processed in the order that it was received. Depending on the specific request, there may be a fee\* assessed for processing.

**\*Notice of Fees and Charges:** Although many public records are provided at no cost there may be charges for extensive use of staff time and resources (119.07(04) F.S.). Extensive use is defined as more than 30 minutes of staff and/or computer resource time. There may also be charges for paper copies, CD/DVDs, postage and other expenses. When possible we will provide you with an estimate of any costs in advance. Note that when charges are accrued records may not be released until

payment has been made in full. For more information on public records please visit our web page at: [www.dep.state.fl.us/secretary/ps/default.htm](http://www.dep.state.fl.us/secretary/ps/default.htm).

**Please note:** Florida has a very broad public records law. Most written communications to or from state officials regarding state business are public records available to the public and media upon request. Your e-mail communications may therefore be subject to public disclosure.



Public Records Request Liaison  
Florida Department of Environmental Protection  
Division of Water Resource Management  
[PublicRecordsRequests\\_Regulatory@dep.state.fl.us](mailto:PublicRecordsRequests_Regulatory@dep.state.fl.us)  
Office: 850.245.8362 & 850.245.8391

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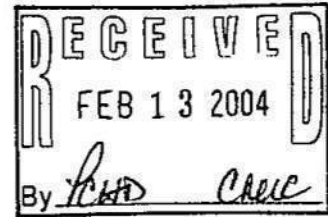


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[www.dep.state.fl.us](http://www.dep.state.fl.us)



Map ID 3: Banks Lumber Co.



**POST REMEDIATION MONITORING PLAN REPORT**

**BANKS LUMBER COMPANY  
105 DIXIE HIGHWAY  
AUBURNDALE, FLORIDA  
FDEP Facility ID# 538623474**

**COPY**

**APPROVED**

*CMC 2/24/04*

**Prepared For:**

**Mr. Reid Harris  
Banks Lumber Company  
Auburndale, Florida 33823**

**Prepared By:**

**TRAC ENVIRONMENTAL SERVICES, INC.  
3720 County Line Road  
Lakeland, Florida 33811**

**February 11, 2004**



## 1.0 INTRODUCTION

T.R.A.C. Environmental Services, Inc. (BES), has been authorized by Banks Lumber Company to conduct groundwater monitoring activities for the facility located at 105 Dixie Highway in Auburndale, Florida (Figure 1). Pursuant to the provisions of Florida Administrative Code (FAC) Section 62-770.750, a Post Active Remediation Monitoring Plan (PARMP) has been approved by the Florida Department of Environmental Protection (FDEP).

### 1.1 Objectives and Scope of Work

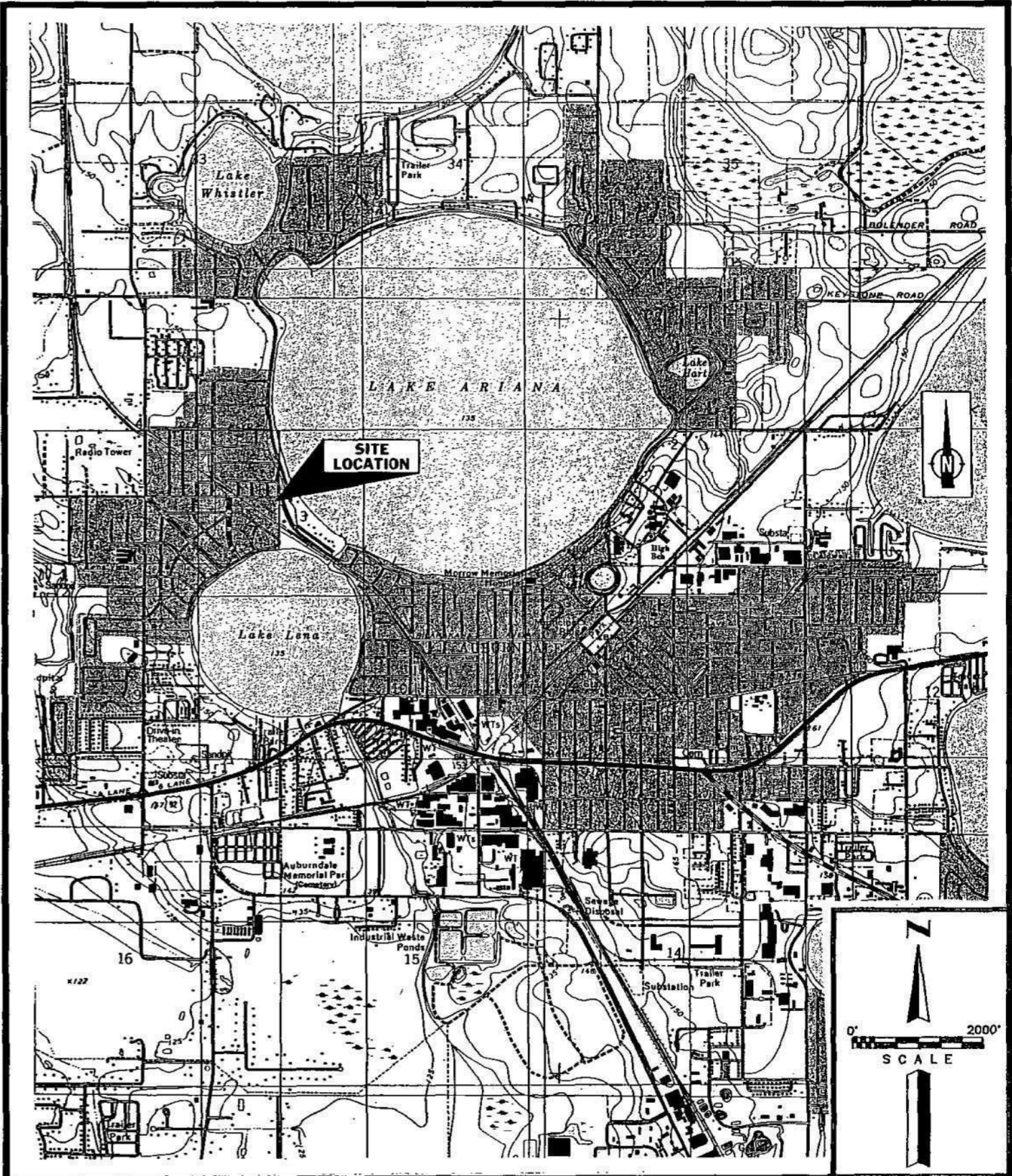
The PARMP objectives comply with the standards outlined in FAC Chapter 62-770.750 which includes the following:

- Conduct water level measurements prior to each sampling event;
- Sample designated monitoring wells and submit samples to a certified laboratory for required analysis;
- Compile and present the field and analytical data in table and map format and submit to the FDEP within 60 days of conducting the sampling event;

### 1.2 Background and Site History

Banks Lumber Company operates a home rafter manufacturing and lumber supply company located at 105 Dixie Highway in Auburndale, Florida in Section 4, Township 28 South, and Range 25 East in Polk County (Figure 1).

One 1,000-gallon underground fuel storage tank (UST) containing diesel and one 800-gallon aboveground fuel storage tank (AST) were located on the property. The property was originally developed by Scotty's hardware sometime in the 1960's. Both storage tanks were installed and put in service by Scotty's at that time. Williams Manufacturing Trust subsequently purchased the property from Scotty's in the late 1980's and began operating a lumber supply business. Banks Lumber Company purchased the property in 1989. The tanks were not used by Banks Lumber for normal business operations and therefore were removed. The AST was removed shortly after the



**Bock Environmental Services, Inc.**

Environmental Consultants

**BANKS LUMBER COMPANY  
105 DIXIE HIGHWAY  
AUBURDALE, FLORIDA**

**FIGURE 1  
SITE LOCATION MAP**

property was purchased and TRAC was contracted to remove the 1,000 gallon UST in March, 2003. Soil samples collected during tank excavation activities indicated that there was no soil contamination in the unsaturated zone, however, diesel related contamination was detected in the groundwater sample collected after tank excavation. A discharge notification form was submitted to the regulatory agency on April 16, 2003. No other petroleum related storage tanks are located at the facility. No additional assessments or investigations of the site were known or documented at that time. A copy of the Closure Assessment Report is included in Appendix B.

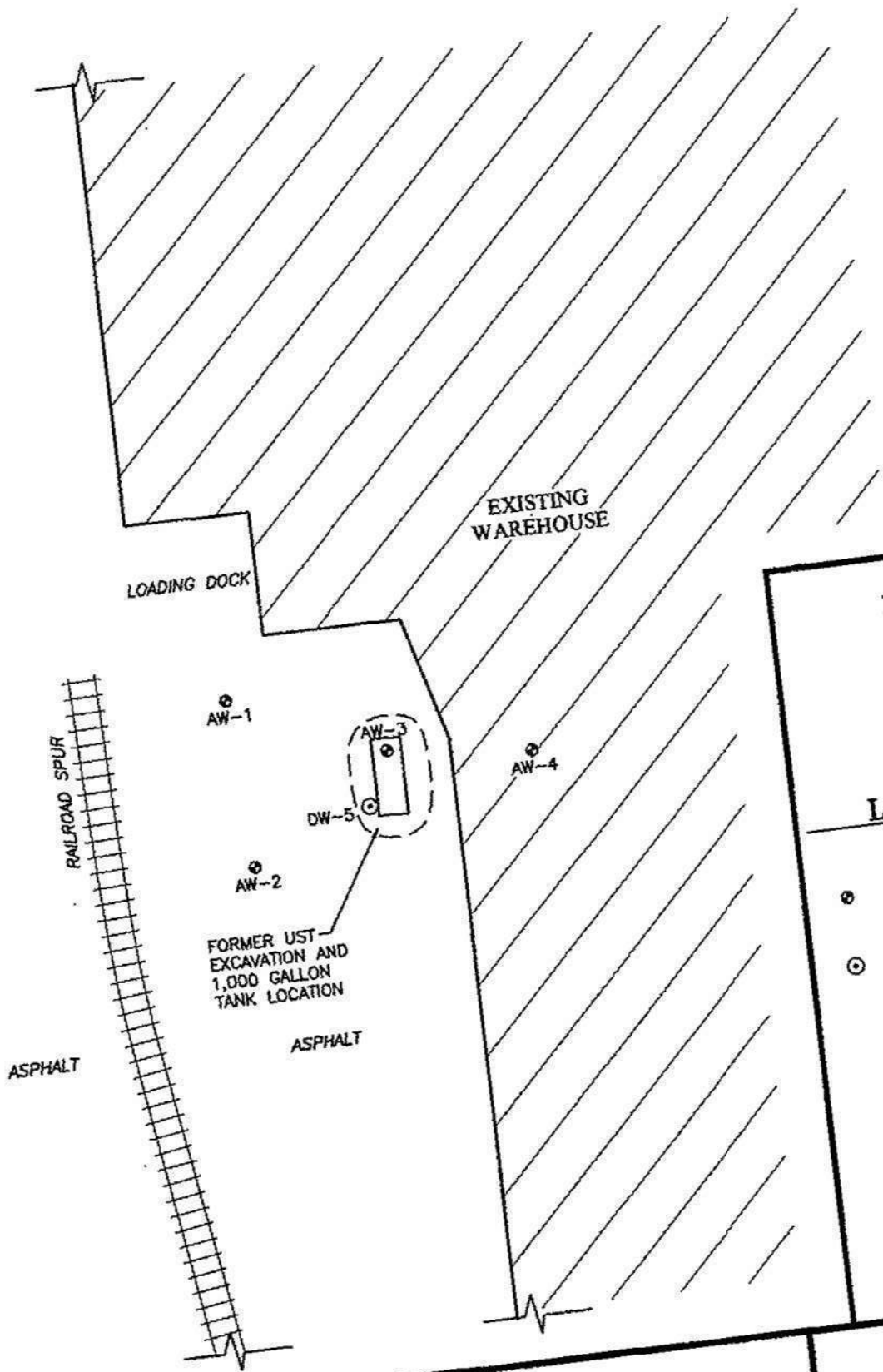
TRAC was subsequently contracted to conduct contamination assessment activities in May, 2003. A subsurface Geoprobe survey was conducted on June 2, 2003 to determine the extent of the groundwater contamination. Shallow monitoring wells AW-1, AW-2, AW-3, AW-4, and deep monitoring well DW-5 were installed on June 9, 2003 (Figure 3). Groundwater samples were collected on June 16, 2003. A Site Assessment Report (SAR) was submitted to the Polk County Health Department (PCHD) in August, 2003.

Source removal activities were conducted from October 9 through October 15, 2003 to remove contaminated soils within the saturated zone and facilitate site cleanup time. Well points were installed around the tank excavation, the area was dewatered, and the contaminated soils were removed. The Source Removal Report (SRR) was submitted to the PCHD in December, 2003. SRR response comments were received in December, 2003 and a SRR Addendum was submitted to the PCHD in February, 2004. PRAMP activities were initiated in November, 2003. This report contains the data acquired during the quarterly sampling event.

## **2.0 METHODS AND PROCEDURES**

### **2.1 Groundwater Sampling Methodology**

**2.1.1 Groundwater Sampling and Analysis:** Groundwater samples from monitoring wells AW-3 and AW-4 were collected on November 6, 2003 after the wells had been allowed to reach equilibrium following well purging procedures. Sampling methods and sample-handling quality



**NORTH**

**LEGEND**

- ⊙ SHALLOW MONITORING WELL
- ⊙ DEEP MONITORING WELL

0 5 10 20  
SCALE: 1" = 20'

BES PROJECT: 1160-FL  
2/6/04

**TRAC**  
**ENVIRONMENTAL SERVICES, INC.**  
 3720 COUNTY LINE ROAD  
 LAKELAND, FLORIDA 33811

**BANKS LUMBER COMPANY**  
 105 DIXIE HIGHWAY  
 AUBURNDALE, FLORIDA

**FIGURE 2**  
**SITE LAYOUT AND**  
**MONITORING WELL**  
**LOCATION MAP**

assurance protocols are described in the FDEP approved Standard Operating Procedures (SOP). All groundwater samples were analyzed by Lakeland Laboratories, LLC in Lakeland, Florida, for the following listed parameters:

- Volatile Organic Aromatics (VOA) using EPA Method 8260B.
- Polynuclear Aromatic Hydrocarbons (PAH) using EPA Method 8310.
- Total Recoverable Petroleum Hydrocarbons (TRPH) by FL-PRO.

**2.1.2 Liquid Level Measurements:** Liquid level data were collected from all monitoring wells to determine the potentiometric surface and to identify the presence of free-phase petroleum product. Liquid level measurements were collected using a Roctest® water level indicator which is capable of detecting water depths with an accuracy of  $\pm 0.01$ -foot. All liquid level data were referenced to the surveyed top-of-casing elevations.

All field equipment used to collect liquid level data was decontaminated prior to and between wells to eliminate the potential for cross-contamination. Decontamination protocol consisted of a Liquinox® soap and water wash, a distilled water rinse, an isopropanol rinse, and a final distilled water rinse.

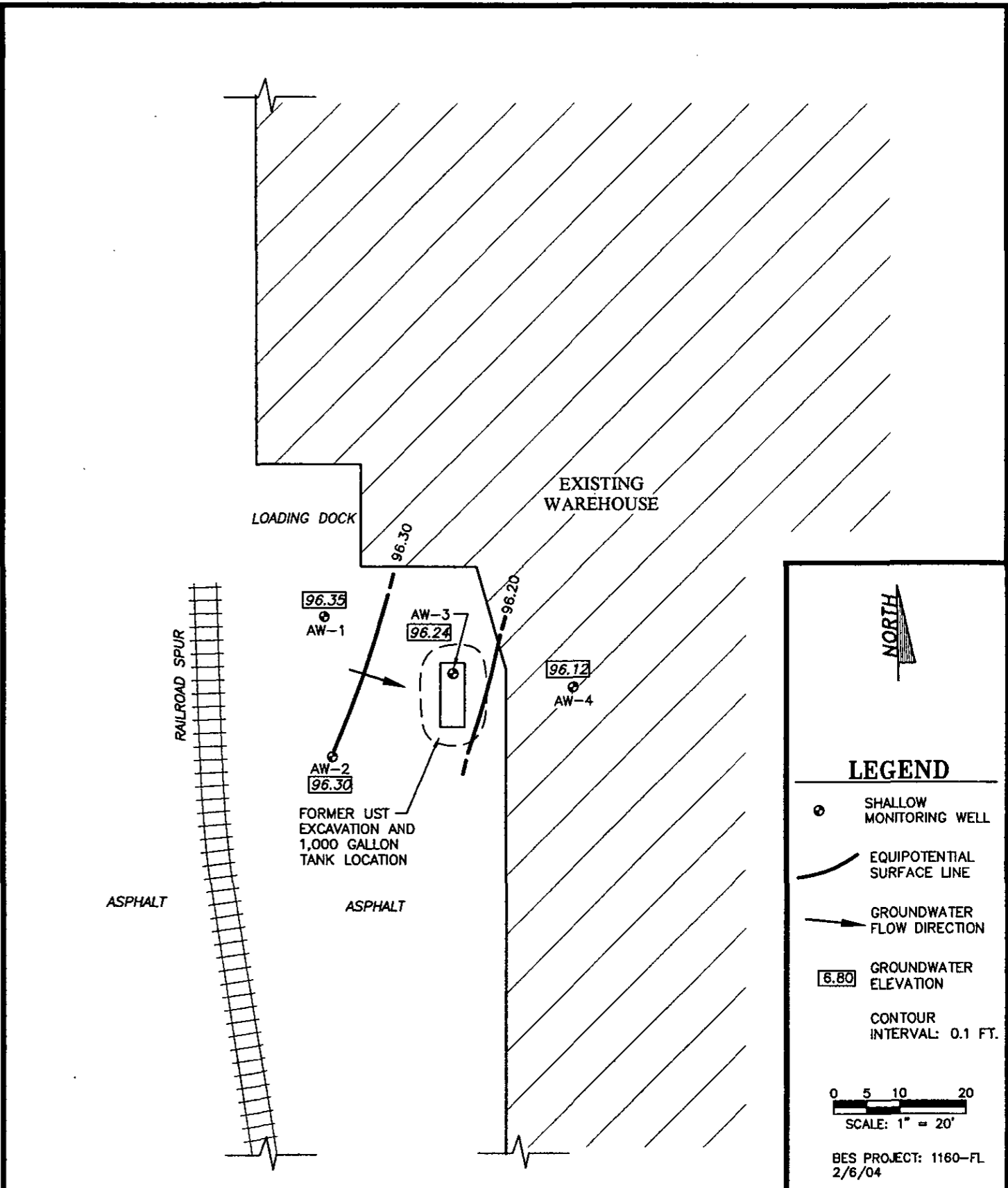
## **3.0 RESULTS**

### **3.1 Groundwater Flow Direction**

Liquid level measurements collected from the site monitoring wells on November 6, 2003 are presented in Table 1, Appendix A. Based on this data, a groundwater contour map was developed to present the groundwater flow direction across this site (Figure 3). The depth to groundwater ranged from 3 to 4-ft bgs and the general direction of local groundwater flow is to the east-southeast.

### **3.2 Chemical Analysis**





**TRAC**  
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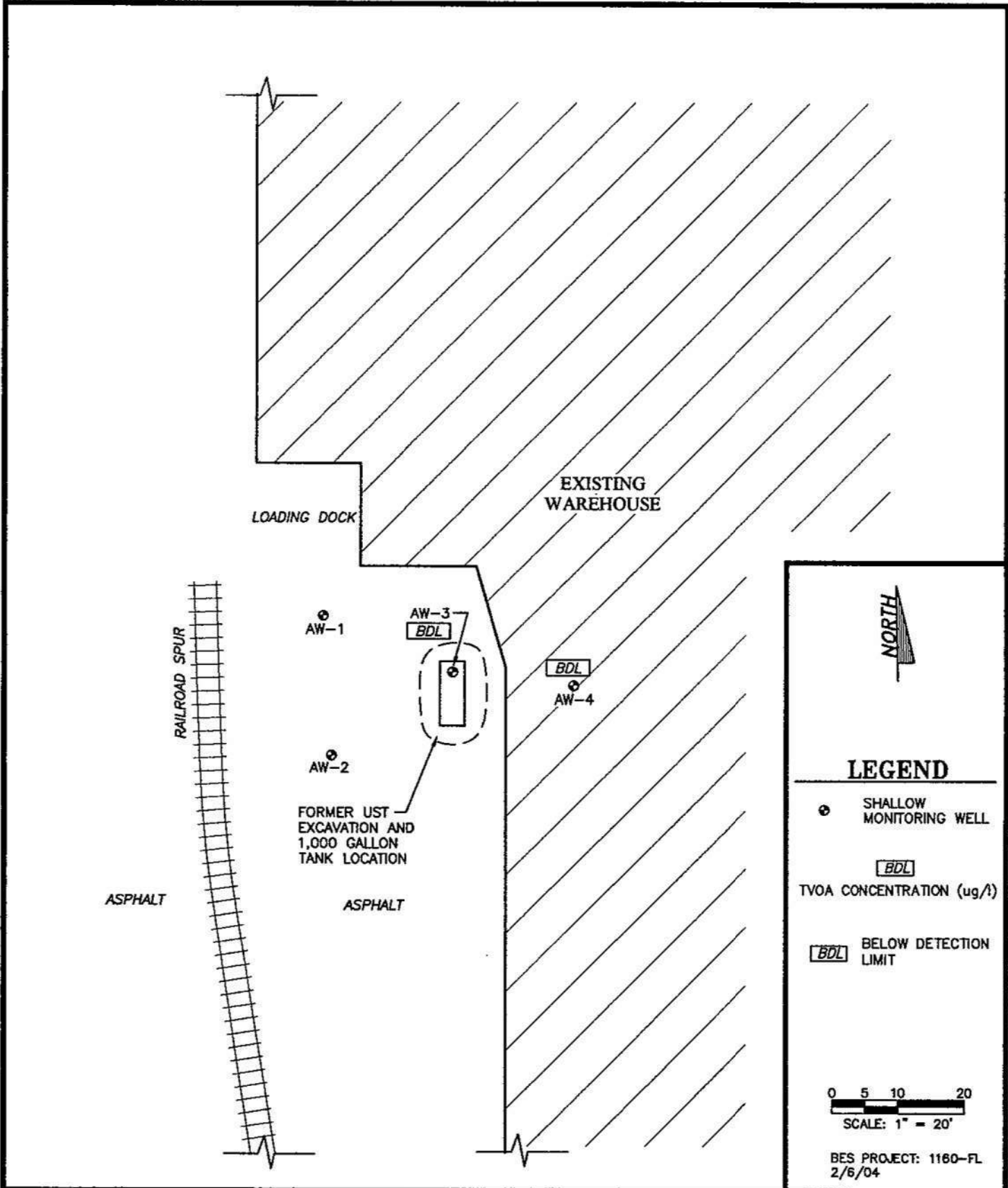
**BANKS LUMBER COMPANY**  
 105 DIXIE HIGHWAY  
 AUBURNDALE, FLORIDA

**FIGURE 3**  
**POTENTIOMETRIC**  
**SURFACE MAP**  
 (November 6, 2003)

**3.2.1 Chemical Analysis of Groundwater:** Groundwater samples collected from the designated monitoring wells were analyzed for EPA Methods 8260B, 8310, and TRPH. Groundwater samples from both monitoring wells (AW-3 and AW-4) indicated no petroleum contaminant concentrations above laboratory method detection levels or regulatory action levels. Figure 4 presents the contaminant concentration levels on a per well basis. The cumulative groundwater analytical data for each well is presented in Tables 2 and 3 in Appendix A. The laboratory analytical report is included in Appendix B.

#### **4.0 RECOMMENDATIONS**

The groundwater contaminant concentrations were below laboratory method detection levels. Pursuant to the PARMP criteria listed in F.A.C. Chapter 62-770.750, T.R.A.C. recommends continued quarterly sampling activities. The next quarterly sampling event will be conducted in March, 2004.



**TRAC**  
**ENVIRONMENTAL SERVICES, INC.**

3720 COUNTY LINE ROAD  
 LAKELAND, FLORIDA 33811

**BANKS LUMBER COMPANY**  
 105 DIXIE HIGHWAY  
 AUBURNDALE, FLORIDA

**FIGURE 4**  
**CONTAMINANT**  
**CONCENTRATION MAP**  
 (November 6, 2003)



**TABLE 1****MONITORING WELL MEASURING POINT AND GROUNDWATER LEVEL DATA**

<b>MONITORING WELL</b>	<b>TOP OF CASING ELEVATION (ft)</b>	<b>DEPTH OF WELL (ft)</b>	<b>ELEVATION OF WELL BOTTOM (ft)</b>	<b>SCREENED INTERVAL ELEVATION (ft)</b>	<b>WATER LEVEL ELEVATION (ft) (3/18/02)</b>
AW-1	99.35	12.0	87.35	87.35-97.35	96.35
AW-2	99.45	12.0	87.45	87.45-97.45	96.30
AW-3	99.54	12.0	87.54	87.54-97.54	96.24
AW-4	99.72	12.0	87.70	87.70-97.70	96.12

**TABLE 2 - SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS (µg/l)**

**AW-3**

ANALYTICAL GROUPS & METHODS	COMPOUNDS	REGULATORY STANDARDS	SAMPLE DATES	
			6/16/03*	11/6/03
VOLATILE AROMATICS (8260B)	Benzene	1	1U	1U
	Ethylbenzene	30	1U	1U
	Toluene	40	1U	1U
	Total Xylenes	20	10	3U
	MTBE	50	3U	3U
POLYNUCLEAR AROMATIC HYDROCARBONS (8310)	Naphthalene	20	130	5U
	2-Methylnaphthalene	20	411	5U
	1-Methylnaphthalene	20	209	5U
FL-PRO	TRPH	5000	5760	400U

\*Sampling results from original AW-3 monitoring well prior to Source Removal activities.

**TABLE 3 - SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS ( $\mu\text{g/l}$ )**

**AW-4**

ANALYTICAL GROUPS & METHODS	COMPOUNDS	REGULATORY STANDARDS	SAMPLE DATES	
			6/16/03*	11/6/03
VOLATILE AROMATICS (8260B)	Benzene	1	1U	1U
	Ethylbenzene	30	26	1U
	Toluene	40	1U	1U
	Total Xylenes	20	3U	3U
	MTBE	50	3U	3U
POLYNUCLEAR AROMATIC HYDROCARBON S (8310)	Naphthalene	20	5U	5U
	2-Methylnaphthalene	20	5U	5U
	1-Methylnaphthalene	20	5U	5U
FL-PRO	TRPH	5000	400U	400U

\*Sampling results from monitoring well prior to Source Removal activities.



Jeb Bush  
Governor

# Department of Environmental Protection

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

Colleen M. Castille  
Secretary

MAR 8 2005

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Mr. Reid Harris  
Banks Lumber Company  
105 Dixie Highway  
Auburndale, FL 33823

Subject: Site Rehabilitation Completion Order  
Banks Lumber Co  
105 Dixie Highway  
Auburndale, Polk County  
FDEP Facility ID# 538623474  
Discharge Date: April 16, 2003 (Non-program)

Dear Mr. Harris:

The Polk County Health Department Petroleum Cleanup Program has reviewed the Site Rehabilitation Completion Report (SRCR) dated November 30, 2004 (received December 6, 2004), prepared and submitted by TRAC Environmental Services, Inc. for the petroleum product discharge discovered at this site. Documentation submitted with the SRCR confirms that criteria set forth in Rule 62-770.680(1), Florida Administrative Code (F.A.C.), have been met. The SRCR 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.

- (1) 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 SRCR or otherwise allowed by Chapter 62-770, F.A.C.
- (2) Additionally, 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(4), 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 SRCR 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 Mr. Reid Harris (Banks Lumber Company), shall mail a copy of the request to Mr. Reid Harris (Banks Lumber Company) 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 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, within 21 days of receipt of this Order. Petitioner, if different from Mr. Reid Harris (Banks Lumber Company), shall mail a copy of the petition to Mr. Reid Harris (Banks Lumber Company) 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 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 the Polk County Health Department Petroleum Cleanup Program's review of your SRCR should be directed to Carol White at (863) 701-1303. 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 538623474. Please use this identification on all future correspondence with the Department or the Polk County Health Department Petroleum Cleanup Program.

Sincerely,

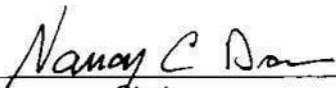


Michael E. Ashe, Chief  
Bureau of Petroleum Storage Systems

MEA/clw

cc: Laurel Culbreth, FDEP Southwest District Office  
Grace Rivera, FDEP – BPSS  
Carol White, Polk County Health Department, Petroleum Cleanup Program  
TRAC Environmental Services, Inc., 3720 County Line Road, Lakeland, FL 33811  
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)

3-8-2005  
Date

P.G. CERTIFICATION

Site Rehabilitation Completion Report and No Further Action Proposal. Banks Lumber Co., 105 Dixie Highway, Auburndale, Polk County, Florida, FDEP Facility ID# 538623474.

I hereby certify that in my professional judgement, the components of this Site Rehabilitation Completion Report (SRCR) and No Further Action Proposal (NFAP) dated November 30, 2004 (received December 6, 2004), prepared and submitted by Professional Services Industries, Inc. for this site satisfy the requirements set forth in Chapter 62-770, Florida Administrative Code (F.A.C.), and that the conclusions in this report provide reasonable assurances that the objectives stated in Chapter 62-770, F.A.C. have been met.

I personally completed this review.

This review was conducted by Carol White, Environmental Specialist II working under my direct supervision.



George W. Ellsworth, P.G.  
Professional Geologist 0000848  
Polk County Health Department  
Petroleum Cleanup Program

12/13/04  
December 13, 2004  
Date

RECEIVED  
DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
DEC 17 10:34  
SUNSHINE STATE  
FLORIDA  
BUREAU OF  
WATER MANAGEMENT





## Map ID 4: Ariana Discount Beverage



"Your Total Compliance Partner"

Deliverable  
**COPY**

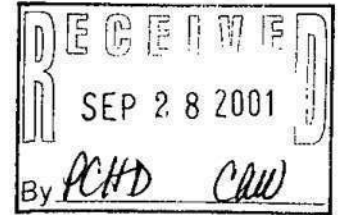
WO# 2001-53-0442-0

**APPROVED** 10/31/01  
CSF

September 27, 2001

Polk County Health Department  
Environmental Engineering Division  
Petroleum Cleanup Program  
5015 South Florida Avenue, Suite 302  
Lakeland, FL 33813

Bureau of Petroleum  
Storage Systems  
12/2001  
Petroleum Cleanup  
Section #2:



Attention: Corey Franklin  
Case Manager

**Level 4 Site Assessment Report  
Ariana Discount Beverage  
315 Rams Gate Road  
Auburndale, Florida 33823  
FDEP Facility ID No. 538623822  
For: A & C of Lakeland, Inc.**

Dear Corey:

On behalf of A & C of Lakeland, Inc., OES Environmental, Inc. (OES) is pleased to submit this Level 4 Site Assessment Report (L4SAR) summarizing the results of field activities at Ariana Discount Beverage. This L4SAR describes the assessment activities authorized by the Florida Department of Environmental Protection (FDEP) Work Order No. 2001-53-0442-0.

**INTRODUCTION**

***Site History***

The subject property operates as a convenience store dispensing unleaded gasoline from one UST. Figure 1 depicts the location of the site and Figure 2 is s site plan. On January 23, 2001, OES received a request for a Pre-approval Proposal from the Polk County Health Department (PCHD). Subsequently, OES forwarded the Proposal to the PCHD on February 23, 2001. The PCHD concurred with OES' recommendations and issued a Work Order authorizing soil and groundwater assessments and related background work. Subsequently, OES submitted an L3SAR on April 23, 2001. Since all four compliance wells has been abandoned or destroyed, OES was unable to conduct the groundwater assessment. The soil assessment revealed the presence of an undetermined volume of petroleum-impacted soil proximal to the southern end of the pump island. The L3SAR recommended installing four monitoring wells, a deep well, if

2830 Parkway Street • Lakeland, FL 33811 • Phone: (863) 683-4646 • Fax: (863) 682-7388

Lakeland, FL • Atlanta, GA • Dallas, TX • Richmond, VA • Greensboro, NC

website: [www.oes-environmental.com](http://www.oes-environmental.com) • Email: [info@oesmail.com](mailto:info@oesmail.com)

required and excavating several additional soil borings. The PCHD concurred and issued the referenced Work Order, authorizing the scope-of-work described below:

### *Scope-of-Work*

The referenced Work Order authorized OES to complete the following scope-of-work:

- Excavate three soil borings with a hand auger 2 ft into the water table and screen soil samples, collected every 2 ft, with an OVA;
- Obtain a utility clearance prior to installation of the monitoring wells;
- Install four 12 ft monitoring wells;
- Survey the top-of-casing elevations for the newly installed wells and measure the depth-to-water;
- Collect groundwater samples from the four newly installed monitoring wells and submit the samples for laboratory analyses; and
- Prepare a Level 4 Site Assessment Report summarizing the results of the investigation.

### *Verbal Authorization*

OES prepared a Verbal Authorization (VA) to cover the costs of disposing one 55-gallon drum of potentially contaminated drill cuttings generated during the installation of MW-4 (see below). The Case Manager approved the VA on September 18, 2001.

## **ENVIRONMENTAL ASSESSMENT**

OES contacted Sunshine State One Call of Florida on September 5, 2001 to ensure that all underground utilities would be properly marked prior to our arrival at the site.

### *Soil Assessment*

OES field personnel mobilized to the subject property on September 12, 2001, to complete the scope-of-work described above. OES used a hand auger to excavate three soil borings, SB-7 through SB-9, at the locations shown on Figure 2. Each soil boring was advanced 2 ft below the approximate surface of the water table, ~ 4 ft below grade (bg). Soil samples were collected every 2 ft and were screened with a Foxboro 108 OVA according to the stipulations of §62-770.200 (12) FAC. OVA results are summarized in Table 1 and depicted for the 0 – 2 ft, 2 – 4 ft and 4 – 6 ft depth intervals on Figure 2 through 4. The hand-auger was decontaminated between successive borings by washing in a solution of Liquinox® and water. Soil boring

locations were chosen in order to determine the presence of petroleum-impacted soil proximal to the southern end of the pump island. After completing the soil borings, the auger cuttings were returned to the borehole, which was sealed with cold-patch asphalt. OES also installed MW-1 through MW-4 and screened the soil samples similarly to the soil borings. Well installation is described below. The monitoring well OVA results are also summarized in Table 1 and included on Figures 2 through 4.

### ***Results***

All soil samples collected from SB-7 through SB-9 and MW-1 through MW-4, at depths ranging from 2 ft to 8 ft, failed to exhibit detectable levels of petroleum vapors, except the samples from SB-7, at 2 - 4 ft, SB-8, at 4 - 6 ft, MW-3, at 0 - 2 ft, which showed  $\leq 5$  ppm; MW-4 at 4 - 6 ft, exhibiting 25 ppm and MW-4, at 0 - 2 ft, yielding 1960 ppm. Figures 2 through 4 depict the lateral extent of petroleum vapors at 0 - 2 ft, 2 - 4 ft and 4 - 6 ft bg, respectively. Figure 2 depicts a small area ( $\sim 177$  ft<sup>2</sup>) of petroleum-impacted soil adjacent to the southern end of the pump island. The extent of petroleum-impacted soil at 0 - 2 ft bg is adequately delineated. Figure 3, showing the OVA results from 2 - 4 ft bg, is essentially unchanged from the L3SAR, since all new OVA results were  $\leq 3$  ppm from this depth interval. Figure 4 shows the OVA results at 4 - 6 ft bg. The results from the soil assessment described herein provided sufficient OVA data to complete the delineation of petroleum-impacted soil at this depth interval. Approximately 65 ft<sup>2</sup> of petroleum-impacted soil occurs proximal to the southern end of the pump island from 4 - 6 ft bg.

Based on the OVA and laboratory analytical data, OES concludes that a volume of petroleum-impacted soil occurs proximal to the southern end of the pump island.

### ***Groundwater Assessment***

During the mobilization described above, OES met Groundwater Protection, Inc. at the site to install four 12 ft monitoring wells at the locations depicted in Figure 2. Each well was installed to a total depth of 12 ft, with 2 ft of 2 in diameter Schedule 40 PVC well casing screwed onto 10 ft of 2 in diameter, 0.010 in slot-size PVC well screen and a standard PVC well point. A monitoring well construction diagram and the boring logs for MW-1 through MW-4 are included in Appendix A. Additional specifications are provided in Table 2. Each well was installed according to all applicable FDEP and Southwest Florida Water Management District requirements. The drilling tools were decontaminated between successive well installations by washing in a solution of Liquinox® and water. Monitoring well locations were selected to replace the destroyed compliance wells and determine the presence of dissolved-phase petroleum analytes in the groundwater proximal to the pump island and UST. OES collected soil samples every 2 ft during well installation and screened the samples with a Foxboro 108 OVA, as described above. Each well was developed until relatively sediment-free. OES generated one 55-gallon drum of potentially contaminated drill cuttings from the installation of MW-4. The drum is currently stored on-site. After receiving a signed VA from the Case Manager covering

the costs of drum disposal, OES returned to the site on September 21 to collect a "pre-burn" analytical soil sample, PB-1. The Certificate-of-Analysis is included in Appendix B. The Waste Manifest will be forwarded subsequent to drum disposal.

OES returned to the site on September 13, 2001, to sample and gauge the monitoring wells. Groundwater samples were collected from MW-1 through MW-4 according to the stipulations of OES' CompQAP (No. 200101), packed on ice and submitted to PEL Laboratories, Inc. (PEL) for analyses by EPA methods 8021 (partial), 8310 and the FL-PRO method. Analytical results are summarized in Table 3 and graphically displayed on a base map as Figure 5. The Water Sampling Log, Chain-of-Custody and Certificates-of-Analysis are included as Appendix B.

### ***Results***

Groundwater samples collected from MW-1 through MW-3 failed to show detectable concentrations of any EPA method 8021 or 8310 analyte or TRPH except for 6 µg/L of MTBE in the sample from MW-2. The sample from MW-4 exhibited 50 µg/L of benzene, 290 µg/L of ethylbenzene, 660 µg/L of the xylene isomers and trace concentrations ( $\leq 5$  µg/L) of naphthalene, 1-methylnaphthalene and 2-methylnaphthalene). TRPH was not detected in the sample from MW-4. Benzene, ethylbenzene and total xylenes, in the sample from MW-4, are the only analytes exceeding their § 62-777 FAC Table I Target Levels.

Figure 6 depicts the lateral distribution of dissolved-phase benzene. A small groundwater plume of dissolved-phase benzene and other VOAs occurs proximal to the southern end of the dispenser pump island. The plume is adequately delineated except northeast, east, southeast and south of MW-4. Since the FDEP did not authorize OES to install a deep well as part of this Work Order, OES is unable to comment on the vertical extent of benzene or other VOAs in the groundwater.

### ***Well Gauging***

OES surveyed the top-of-casing elevations of MW-1 through MW-4 using a rod and transit. The elevation of MW-1 was set at 140.00 ft, based on the closest contour line appearing on the Auburndale (1975) USGS 7.5 minute topographic map. Well gauging results are provided in Table 2. The mean depth-to-water on September 13 was 4.15 ft. Figure 7 depicts OES interpretation of the piezometric surface of the surficial aquifer on September 13, 2001. The hydraulic gradient between MW-3 and MW-1 was  $4.26 \times 10^{-2}$  ft/ft, southwards. OES did not observe free product in any monitoring well or soil boring during the course of this investigation.

***Recommendations, Continued***

- Survey top-of-casing elevations and measure the depth-to-water in the newly installed wells and calculate the magnitude and direction of the hydraulic gradient.

-oΩo-

Should you have any questions or require additional information, please contact Charles D. Markun.

Very truly yours,

**OES ENVIRONMENTAL, INC.**

*Charles D Markun 9/27/01*

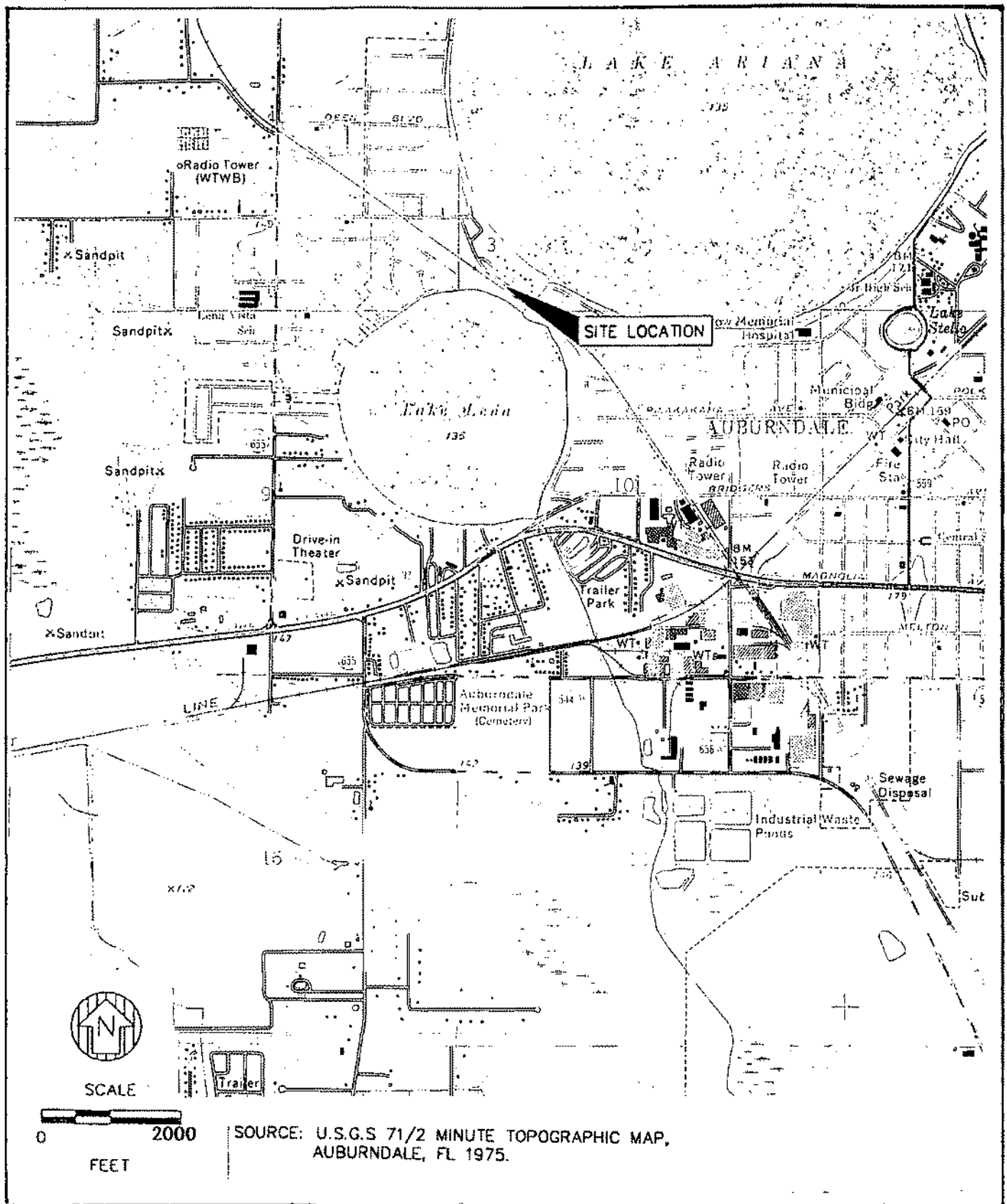
Charles D. Markun, P.G.  
*Technical Manager*



Thomas H. Spohn, P.G.  
*Assessment Services Manager*

k:\projects\florida\fa&c\01\02\LSAR.doc\cdm:tl  
Attachments

cc: A&C of Lakeland, Inc.- Mr. Charles Deaton



SOURCE: U.S.G.S 7 1/2 MINUTE TOPOGRAPHIC MAP, AUBURNDALE, FL 1975.

ARIANA DISCOUNT BEVERAGE  
315 RAMSGATE RD, AUBURNDALE, FLORIDA

SITE LOCATION  
MAP



OES ENVIRONMENTAL, INC.

Drafted: 3/6/01  
Revised: 00/00/00

PROJECT No. 00245-00101

FIGURE 1

## CONCLUSIONS AND RECOMMENDATIONS

### *Conclusions*

Based on the results of the site assessment described herein, OES offers the following conclusions:

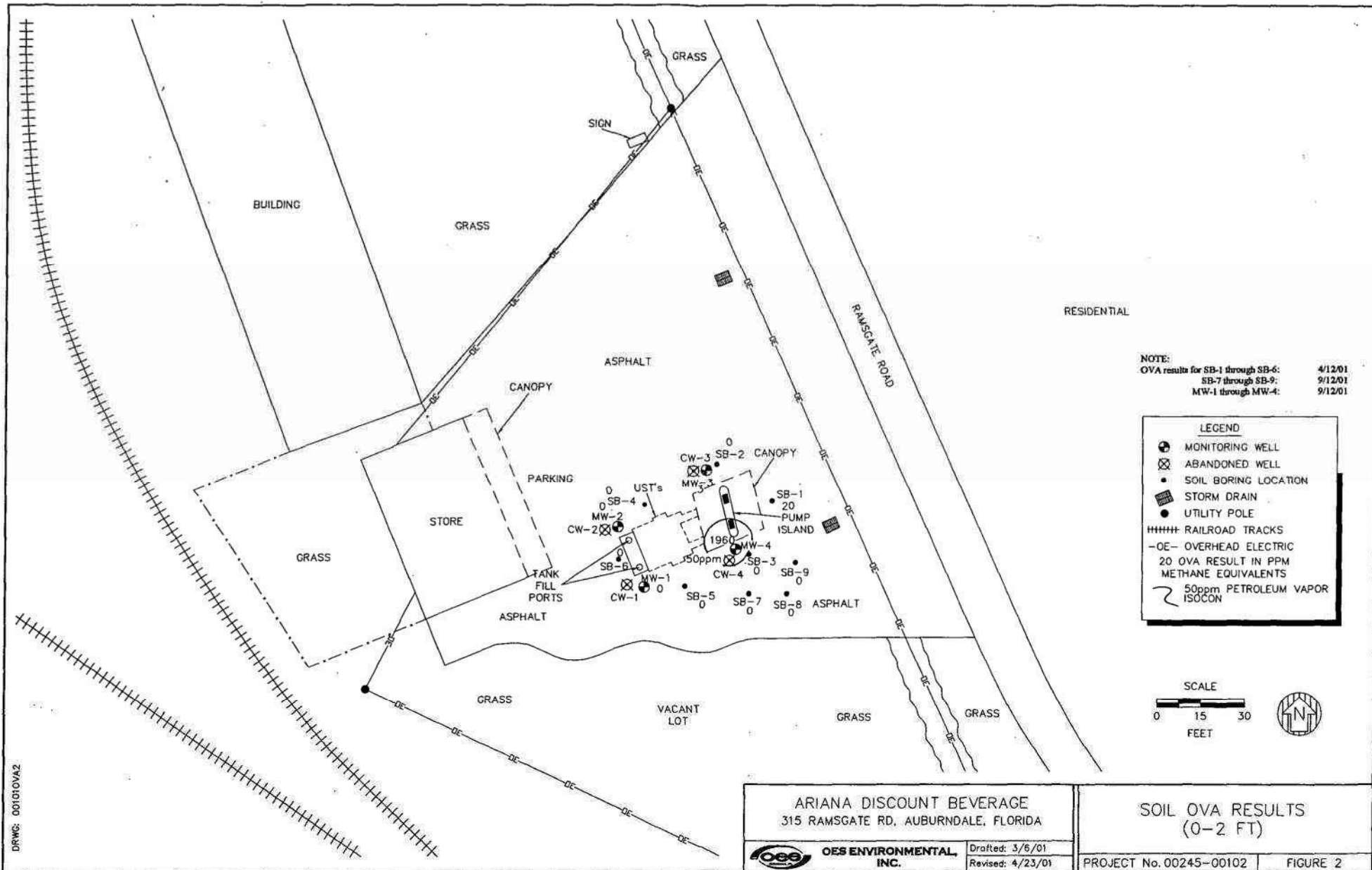
- A volume of petroleum-impacted soil occurs proximal to the southern end of the pump island. This conclusion is based on OVA screening and laboratory analytical results;
- A small groundwater plume of dissolved-phase benzene and other VOAs occurs proximal to the southern end of the dispenser pump island;
- The lateral extent of dissolved-phase VOAs is adequately delineated except northeast, east, southeast and south of MW-4;
- The vertical extent of dissolved-phase VOAs is not delineated;
- Benzene, ethylbenzene and total xylenes, in the sample from MW-4, are the only analytes exceeding their § 62-777 FAC Table I Target Levels;
- The hydraulic gradient between MW-3 and MW-1 was  $4.26 \times 10^{-2}$  ft/ft, southwards;
- OES did not observe free product in any monitoring well or soil boring during the course of this investigation; and
- One 55-gallon drum of drill cuttings, generated during the installation of MW-4, is currently stored on-site. A "pre-burn" soil sample (PB-1) was collected from the drum on September 21.

### *Recommendations*

In consideration of the conclusions presented above, OES offers the following recommendations:

- Install three 12 ft monitoring wells, MW-5 through MW-7 as shown on Figure 8;
- Install one 25 ft, double-cased deep well, DW-1, 5 ft downgradient (south) of MW-4. The proposed location of DW-1 is depicted on Figure 8;
- Sample the newly installed wells and analyze the samples by EPA methods 8021 (part.) 8310 and the FL-PRO method; and





NOTE:  
 OVA results for SB-1 through SB-6: 4/12/01  
 SB-7 through SB-9: 9/12/01  
 MW-1 through MW-4: 9/12/01

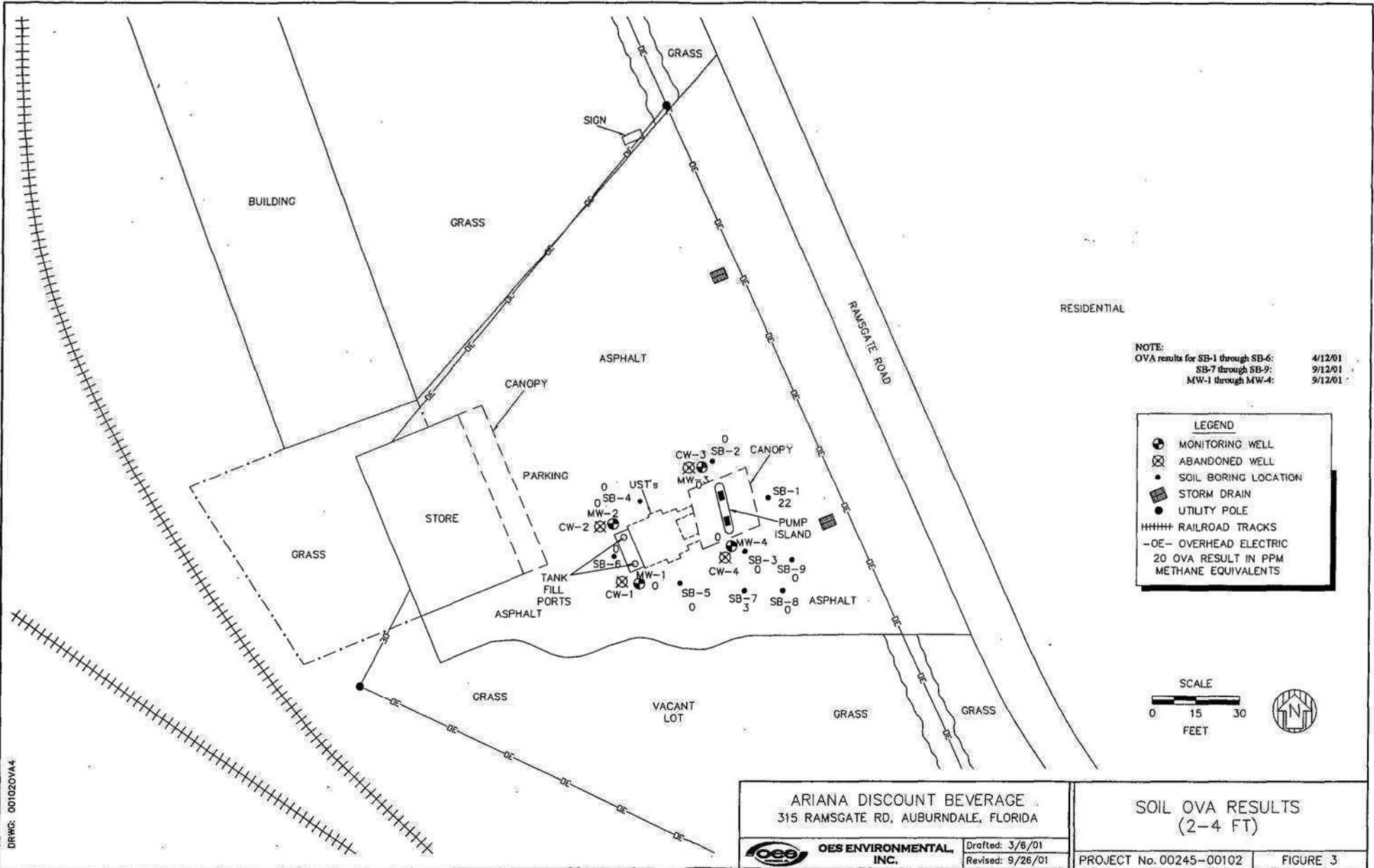
**LEGEND**

- Monitoring Well
- ⊗ Abandoned Well
- Soil Boring Location
- T — Storm Drain
- Utility Pole
- +++++ Railroad Tracks
- O-E- Overhead Electric
- 20 OVA Result in PPM Methane Equivalents
- 50ppm Petroleum Vapor ISOCON

SCALE  
 0 15 30  
 FEET

<b>ARIANA DISCOUNT BEVERAGE</b> 315 RAMSGATE RD, AUBURDALE, FLORIDA		<b>SOIL OVA RESULTS</b> (0-2 FT)	
<b>OES ENVIRONMENTAL, INC.</b>	Drafted: 3/6/01	PROJECT No. 00245-00102	FIGURE 2
	Revised: 4/23/01		

DRAWG: 001010VA2



NOTE:  
 OVA results for SB-1 through SB-6: 4/12/01  
 SB-7 through SB-9: 9/12/01  
 MW-1 through MW-4: 9/12/01

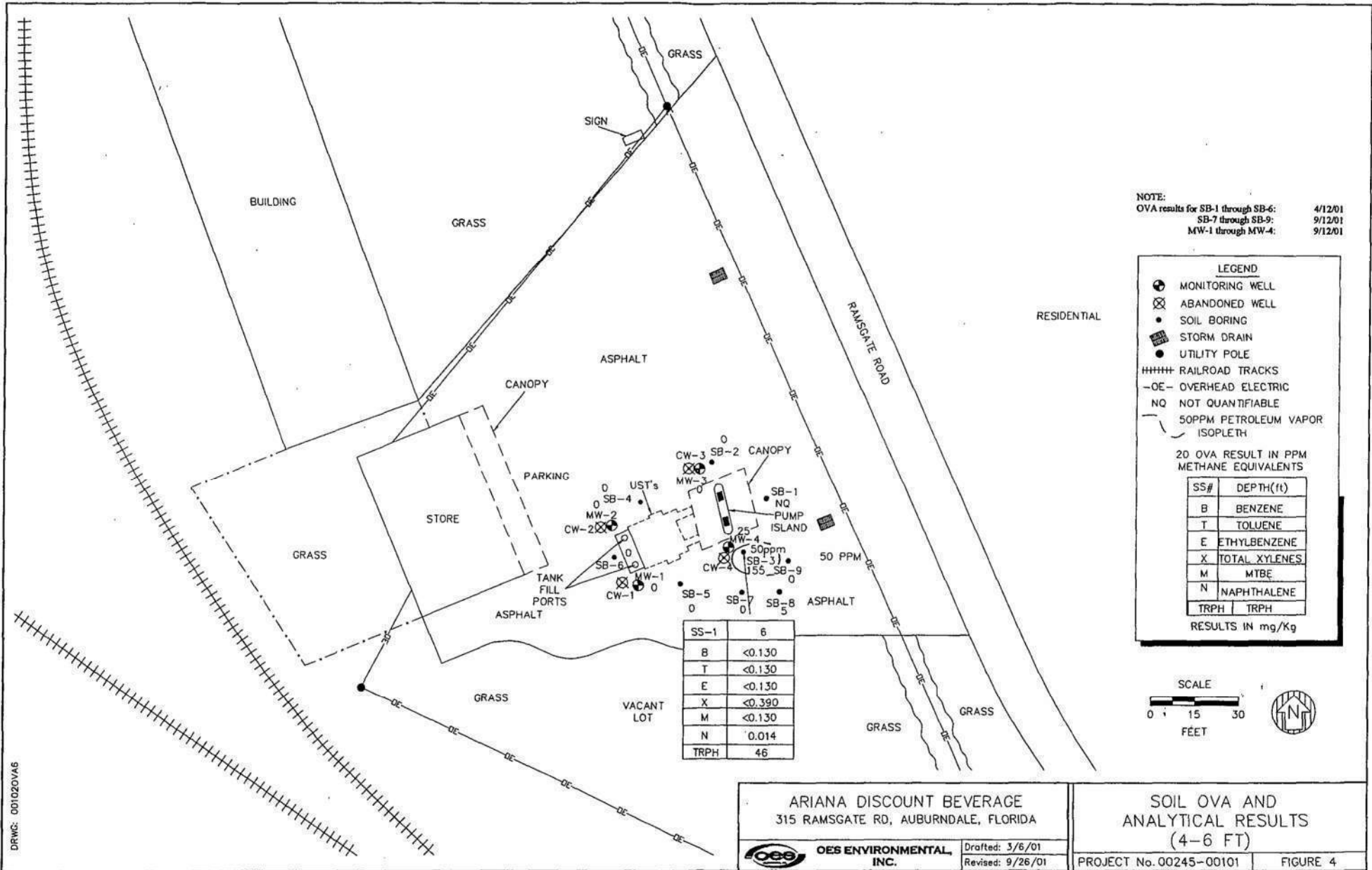
**LEGEND**

- MONITORING WELL
- ABANDONED WELL
- SOIL BORING LOCATION
- STORM DRAIN
- UTILITY POLE
- RAILROAD TRACKS
- OVERHEAD ELECTRIC
- 20 OVA RESULT IN PPM METHANE EQUIVALENTS

SCALE  
 0 15 30  
 FEET

ARIANA DISCOUNT BEVERAGE 315 RAMSGATE RD, AUBURNDALE, FLORIDA		SOIL OVA RESULTS (2-4 FT)	
	<b>OES ENVIRONMENTAL, INC.</b>	Drafted: 3/8/01 Revised: 9/26/01	PROJECT No. 00245-00102    FIGURE 3

DRWG: 001020VIA4



NOTE:  
 OVA results for SB-1 through SB-6: 4/12/01  
 SB-7 through SB-9: 9/12/01  
 MW-1 through MW-4: 9/12/01

**LEGEND**

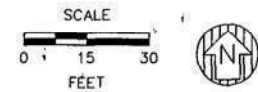
- MONITORING WELL
- ⊗ ABANDONED WELL
- SOIL BORING
- STORM DRAIN
- UTILITY POLE
- ++++ RAILROAD TRACKS
- OE- OVERHEAD ELECTRIC
- NO NOT QUANTIFIABLE
- 50PPM PETROLEUM VAPOR ISOPLETH

20 OVA RESULT IN PPM METHANE EQUIVALENTS

SS#	DEPTH(ft)
B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	TOTAL XYLENES
M	MTBE
N	NAPHTHALENE
TRPH	TRPH

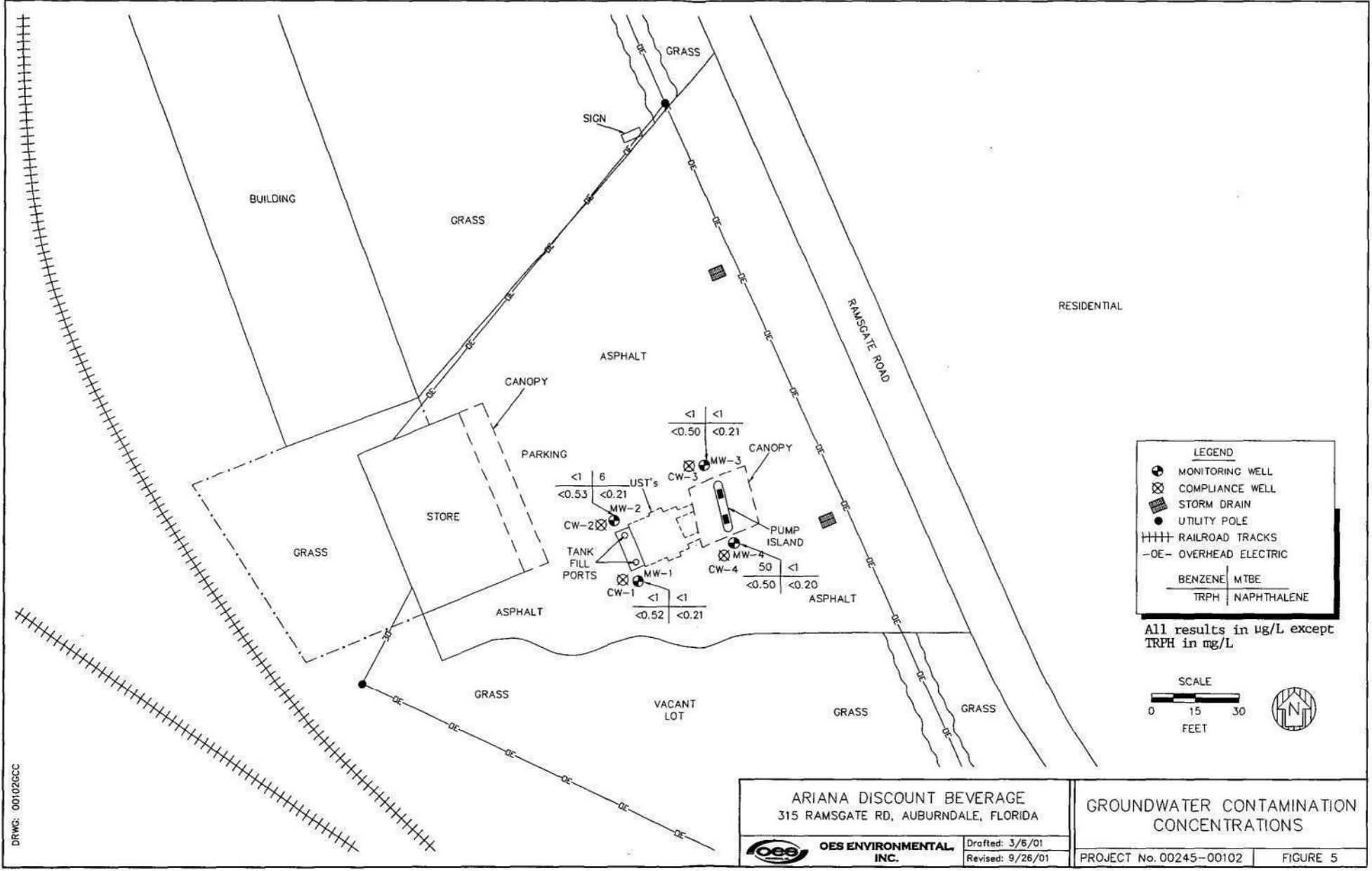
RESULTS IN mg/Kg

SS-1	6
B	<0.130
T	<0.130
E	<0.130
X	<0.390
M	<0.130
N	0.014
TRPH	46



<b>ARIANA DISCOUNT BEVERAGE</b> 315 RAMSGATE RD, AUBURDALE, FLORIDA		<b>SOIL OVA AND ANALYTICAL RESULTS</b> (4-6 FT)	
<b>OES ENVIRONMENTAL, INC.</b>	Drafted: 3/6/01	PROJECT No. 00245-00101	FIGURE 4
	Revised: 9/26/01		

DRWG: 001020VAB



DRWG: 00102GCC

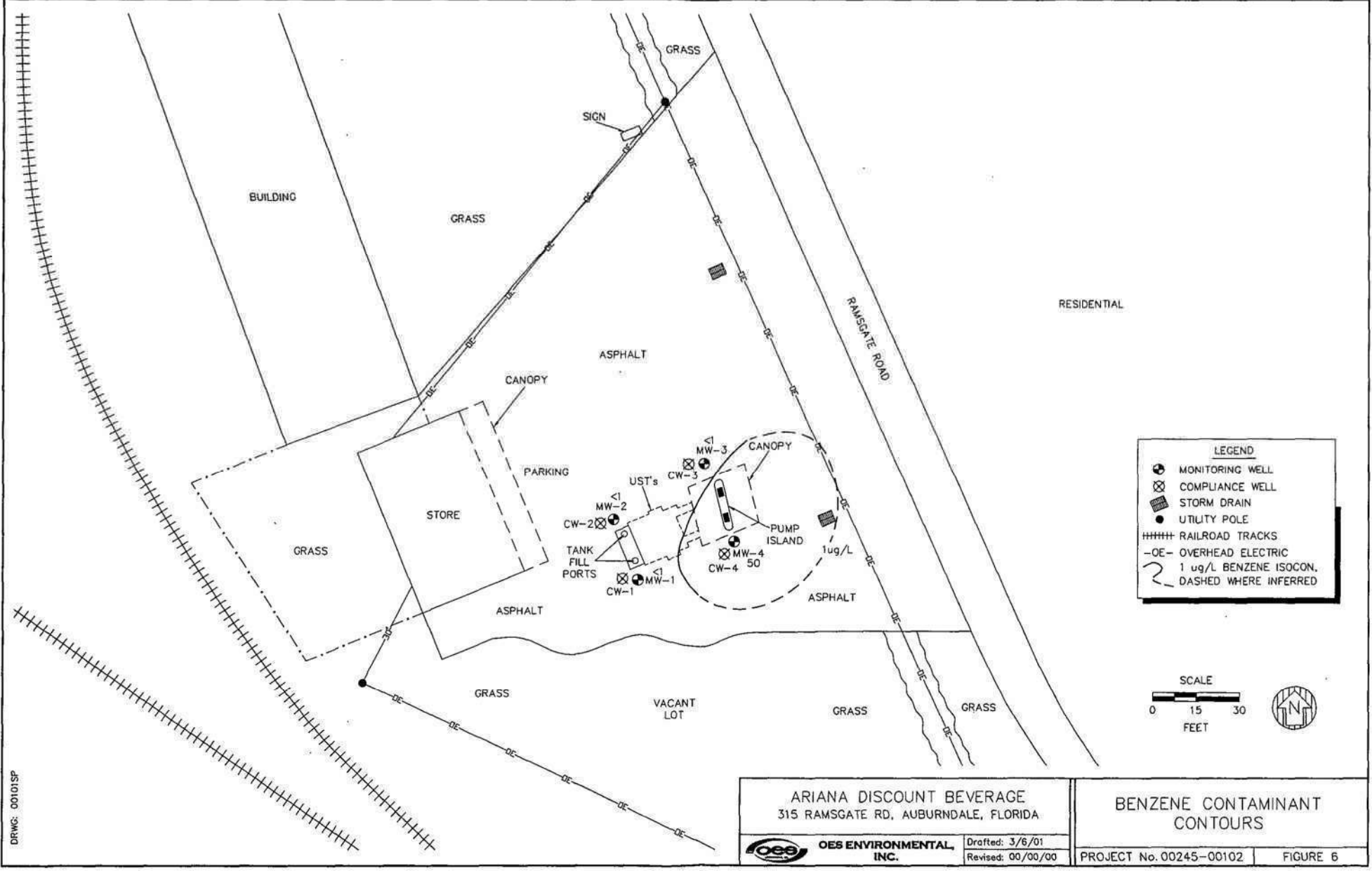
ARIANA DISCOUNT BEVERAGE  
315 RAMSGATE RD, AUBURNDALE, FLORIDA

**OES ENVIRONMENTAL INC.**

Drafted: 3/6/01  
Revised: 9/26/01

**GROUNDWATER CONTAMINATION CONCENTRATIONS**

PROJECT No. 00245-00102      FIGURE 5



**LEGEND**

- MONITORING WELL
- COMPLIANCE WELL
- STORM DRAIN
- UTILITY POLE
- RAILROAD TRACKS
- OVERHEAD ELECTRIC
- 1 ug/L BENZENE ISOCON.
- DASHED WHERE INFERRED

SCALE  
  
 0 15 30  
 FEET

ARIANA DISCOUNT BEVERAGE  
 315 RAMSGATE RD, AUBURNDALE, FLORIDA

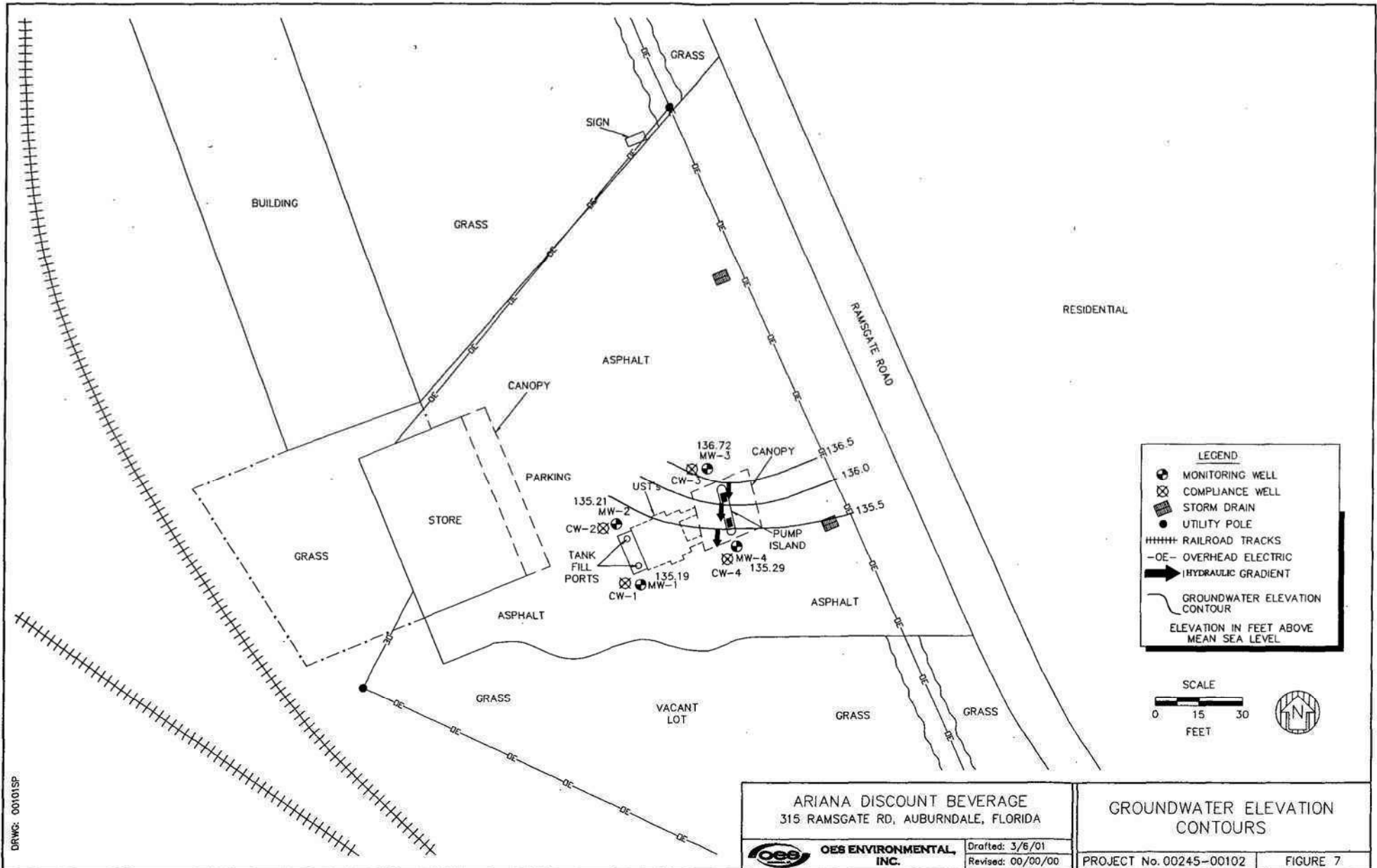
**OES ENVIRONMENTAL, INC.**

Drafted: 3/6/01  
 Revised: 00/00/00

**BENZENE CONTAMINANT CONTOURS**

PROJECT No. 00245-00102      FIGURE 6

DRWG: 00101SP



**LEGEND**

- ⊕ MONITORING WELL
- ⊗ COMPLIANCE WELL
- ▣ STORM DRAIN
- UTILITY POLE
- ++++ RAILROAD TRACKS
- OE- OVERHEAD ELECTRIC
- ➔ HYDRAULIC GRADIENT
- GROUNDWATER ELEVATION CONTOUR

ELEVATION IN FEET ABOVE MEAN SEA LEVEL

SCALE

0 15 30  
FEET

ARIANA DISCOUNT BEVERAGE  
315 RAMSGATE RD, AUBURDALE, FLORIDA

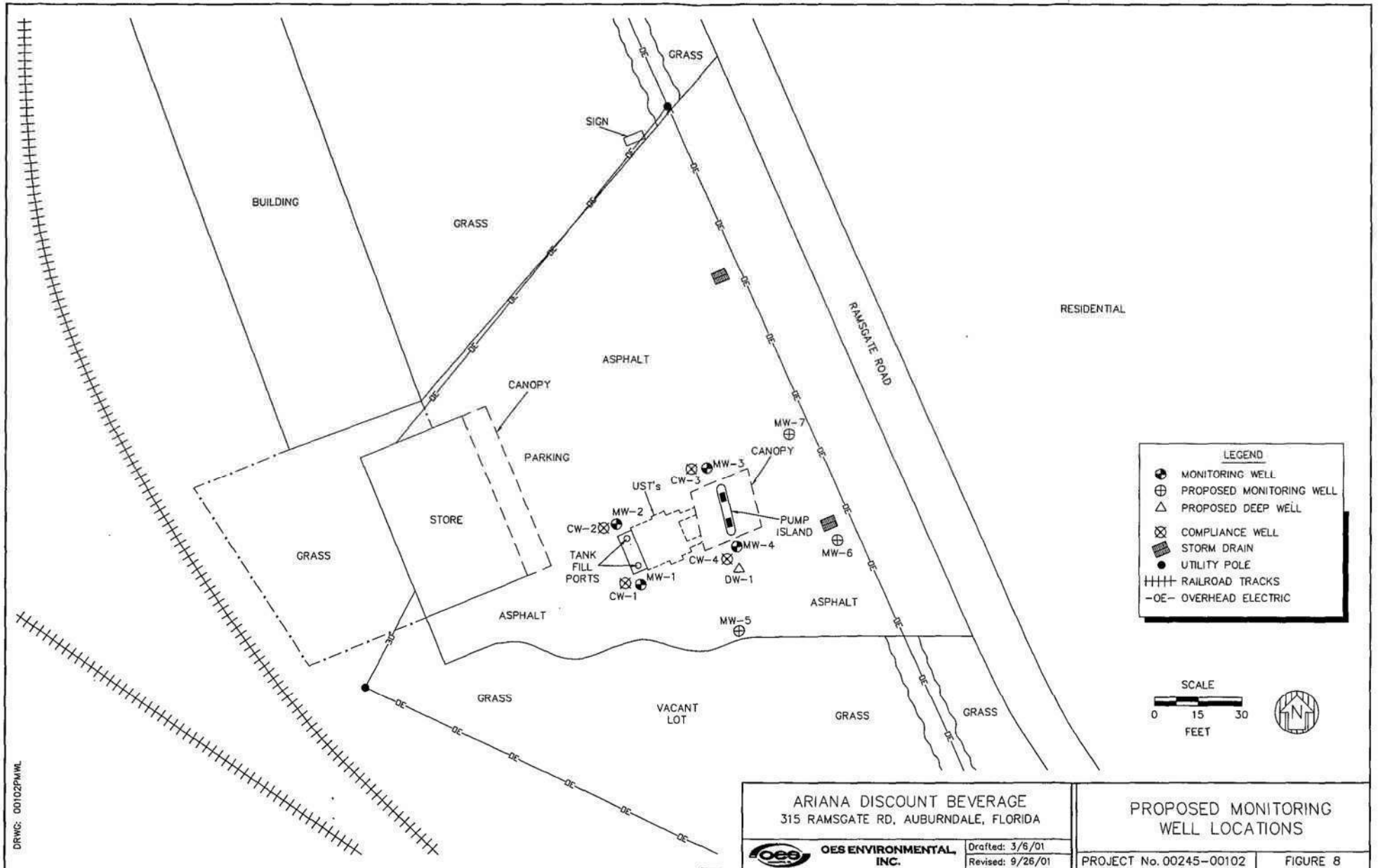
**OES ENVIRONMENTAL, INC.**

Drafted: 3/6/01  
Revised: 00/00/00

GROUNDWATER ELEVATION CONTOURS

PROJECT No. 00245-00102      FIGURE 7

DRWG: 00101SP




DRWG: 00102PMWL

# Memorandum

# Florida Department of Environmental Protection

**TO:** File

**FROM:** Lewis J. Cornman, Jr. 

**DATE:** December 15, 2011

**SUBJECT:** PCT Discharge Deletion for a Special Entity (SE) Florida Petroleum Liability and Restoration Insurance Program (FPLRIP) site.

**RE:** DEP Facility #538623822  
Ariana Discount Beverage (former Snak & Shop)  
315 Rams Gate Road, Auburndale, Fl.  
Discharge Date - 12/22/1994

After a file review of the facility and discharge incident for the above referenced site, it has been determined that the 12/22/1994 discharge date in PCT was created for tracking purposes. Due to system limitations with the old AMIC/PCT used during this time period, multiple eligibilities could not be linked with a single discharge incident. Therefore, a "discharge date" had to be created (application date to SE FPLRIP) to track eligibility and cleanup. Eligibility records have been moved to the correct discharge date of 4/6/1993 and the "created discharge date" of 12/22/1994 has been deleted from PCT.

If you have any questions regarding this review, please contact me at (850) 245-8846.

DISCHARGE DELETED  
FROM PCT  
12/15/11 2:16 PM  
MLC





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

DER Form # 17-21 (REV. 82)  
 Form Title: Discharge Reporting Form  
 Effective Date: December 31, 1990  
 DER Approval: \_\_\_\_\_  
 STATIONARY TANK PROGRAM

# Discharge Reporting Form

APR 8 1993  
 HRS POLK CPU

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 17-781.480 F.A.C. within one working day of discovery.
3. Hazardous substance (CERCLA regulated), discharges exceeding applicable reportable quantities established in 17-761.480(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: 53/8623822 2. Tank Number: \_\_\_\_\_ 3. Date: 4-6-93

4. Facility Name: Snak & Shop

Facility Owner or Operator: C.F. Corneal, Trustee

Facility Address: 315 Ramsgate Rd Auburndale, FL 33823

Telephone Number: (813) 967-1311 County: Polk

Mailing Address: P.O. Box 127 Auburndale, FL 33823

5. Date of receipt of test results or discovery: 4-6-93 *see Monthly Report in office* month/day/year

6. Method of initial discovery. (circle one only)
- |   |                             |   |
|---|-----------------------------|---|
| A. Liquid detector (automatic or manual)    | D. Emptying and inspection. | F. Vapor or visible signs of a discharge in the vicinity. |
| B. Vapor detector (automatic or manual)     | E. Inventory control.       | G. Closure: _____ (explain)                               |
| C. Tightness test (underground tanks only). |                             | H. Other: <u>During retrofitting</u>                      |

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          | D. vehicular diesel | L. used/waste oil | V. hazardous substance includes pesticides, ammonia, chlorine and derivatives (write in name or Chemical Abstract Service CAS number) |
| <b>B. unleaded gasoline</b> | F. aviation gas     | M. diesel         | Z. other (write in name)  |
| C. gasohol                  | G. jet fuel         | O. newtube oil    |   |

10. Cause of leak. (circle all that apply)
- |                   |                     |                         |             |                    |
|-------------------|---------------------|-------------------------|-------------|--------------------|
| <b>A. Unknown</b> | C. Loose connection | E. Puncture             | G. Spill    | I. Other (specify) |
| B. Spill          | D. Corrosion        | F. Installation failure | H. Overfill |                    |

11. Type of financial responsibility. (circle one)
- |   |                   |
|---|-------------------|
| A. Third party insurance provided by the state insurance contractor | C. Not applicable |
| B. Self-insurance pursuant to Chapter 17-769.500 F.A.C.             | <b>D. None</b>    |

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

C F Corneal  
 Printed Name of Owner, Operator or Authorized Representative

[Signature]  
 Signature of Owner, Operator or Authorized Representative

Northwest District 150 Government Center Pensacola, Florida 32504-1704 904-438-6200	Northeast District 7125 Bayshore Way, Suite 8 200 Jacksonville, Florida 32217 904-794-4200	Central District 2319 Highway Blvd, Suite 232 Ocala, Florida 32067-3707 352-364-1985	Southeast District 4329 Oak Tree Blvd Tampa, Florida 33616-7207 813-623-5861	South District 2700 Hwy D Fort Myers, Florida 33901-2800 813-337-8075	Southwest District 1625 S Congress Ave., Suite A West Palm Beach, Florida 33409 407-432-2800
--	---	---	---	--	---

RECEIVED  
 APR 13 1993  
 STATIONARY TANK PROGRAM  
 REGISTRATION

4/13/93  
 Han

---

**Document  
Not  
Available**

**Facility ID# 538623822  
Discharge reporting form  
Dated 12/22/94**

---

**Received 12/22/94**

**(Document was requested and could not be  
obtained from the site's lead agency.)**

**Reviewed by  
York STB, Inc.**



# Department of Environmental Protection

Lawton Chiles  
Governor

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

Virginia B. Wetherell  
Secretary

August 17, 1994

**-CERTIFIED MAIL-RETURN RECEIPT-**

Mr. Chuck Corneal  
AJC Trust  
Post Office Box 127  
Auburndale, Florida 33823

RE: Snak & Shop - 315 Ramsgate Road, Auburndale, FL  
DEP Facility #538623822

Dear Mr. Corneal:

The Florida Department of Environmental Protection has reviewed documents you submitted as application for eligibility for Restoration Coverage under the requirements of the Florida Petroleum Liability Restoration Insurance Program (FPLRIP), Chapter 17-769, Florida Administrative Code (F.A.C.). Based upon the information which you have provided, the subject facility is ineligible for participation in the FPLRIP Restoration Insurance Program for the incident(s) reported April 6, 1993 for the following reason(s):

- 1). Pursuant to Section 17-769.600, F.A.C., the restoration insurance coverage shall apply only to discharges discovered by an owner or operator after the date of coverage under the liability insurance policy or alternatively, after receipt of documentation required under Section 17-769.500, F.A.C.

A person whose substantial interests are affected by this Order of Ineligibility may petition for an administrative proceeding (hearing) in accordance with Section 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 21 days of receipt of this Notice. Petitioner shall mail a copy of petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The petition shall contain the following information: (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Facility Identification Number and county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the Department's

# BLANK, RIGSBY & MEENAN, P.A.

ATTORNEYS AT LAW

*Office Address:*

204 SOUTH MONROE STREET  
TALLAHASSEE, FLORIDA 32301  
(904) 681-6710

*Mailing Address:*

POST OFFICE BOX 11068  
TALLAHASSEE, FLORIDA 32302-3068  
FACSIMILE (904) 681-6713

WILLIAM D. ANDERSON  
F. PHILIP BLANK  
WENDY A. DELVECCHIO  
TIMOTHY J. MEENAN  
R. TERRY RIGSBY  
TIMOTHY C. SCHOENWALDER  
GEOFFREY D. SMITH  
PAUL M. WYSOCKI

December 22, 1994

Mr. Bill Truman  
Department of Environmental Protection  
Petroleum Cleanup/Reimbursement Section  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

**VIA HAND DELIVERY**

Re: Snak & Shop; AJC Trust; DEP Facility I.D. 3533623822

Dear Bill:

Enclosed please find claim forms and a small business certification for the above referenced facility. Please consider this facility for eligibility in the PLIRP program under the special entity provisions of Chapter 376, Florida Statutes. This site was previously denied for PLIRP eligibility on the basis that the coverage was not in effect at the time of the discharge.

I would greatly appreciate if you would provide me a copy of your eligibility determination so that I can be sure to file a timely request for formal hearing if necessary. I look forward to your response.

Sincerely,



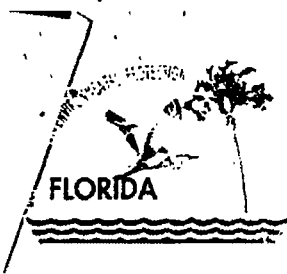
Geoffrey D. Smith

GDS/tmr

Enclosure

cc: Chuck Corneal

tmr\general\trucorn.itr



# Department of Environmental Protection

Lawton Chiles  
Governor

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

Virginia B. Wetherell  
Secretary

December 6, 1995

**-CERTIFIED MAIL-RETURN RECEIPT-**

Mr. C. F. Corneal  
AJC Trust  
Post Office Box 127  
Auburndale, Florida 33823

**RE: Snak & Shop - DEP Facility #538623822  
315 Ramsgate Road, Auburndale, Florida**

Dear Mr. Corneal:

The Florida Department of Environmental Protection has reviewed documents you submitted as application for eligibility for Restoration Coverage under Section 376.3072(2)(a)3, Florida Statutes (F.S.), for entry into the Florida Petroleum Liability Restoration Insurance Program (FPLRIP), Chapter 62-769, Florida Administrative Code (F.A.C.). Based upon the information which you have provided, the subject facility is ineligible for participation in the Restoration Insurance Program. Pursuant to Section 376.3072(2)(a)3a., F.S., the facility was determined to have been out of compliance with Department rules for the incident(s) reported April 6, 1993, for the following reason(s):

**Failure to take corrective action as required by the Department pursuant to Section 62-769.600(13), F.A.C., by taking the following step(s);**

- 1). Failure to properly report a suspected or confirmed release within one working day of discovery pursuant to Section 62-761.460(3)(a), (b), (c), F.A.C.

**Failure to abate the known source of a discharge pursuant to Section 62-769.600(13)(a), F.A.C., by taking the following step(s);**

- 1). Failure to test or empty the petroleum storage system within 3 days of discovery of a discharge pursuant Section 62-769.600(13)(a)1., F.A.C.
- 2). Failure to take steps to obtain cleanup services within 3 days of discovery of a discharge pursuant to Section 62-769.600(13)(a)2., F.A.C.

**BLANK, RIGSBY & MEENAN, P.A.**  
ATTORNEYS AT LAW

*P.P.P.?*

Office Address:  
204 SOUTH MONROE STREET  
TALLAHASSEE, FLORIDA 32301  
(904) 681-6710

Mailing Address:  
POST OFFICE BOX 11068  
TALLAHASSEE, FLORIDA 32302-3068  
FACSIMILE (904) 681-6713

F. PHILIP BLANK\*  
SONYA A. CHAMBERLAIN  
WENDY A. DELVECOCHIO  
A. KENNETH LEVINE  
THOMAS R. MCSWAIN  
TIMOTHY J. MEENAN  
R. TERRY RIGSBY  
TIMOTHY G. SCHOENWALDER  
GEOFFREY D. SMITH

LEGAL ASSISTANT  
JOHN A. DICKSON, J.D.

\*Florida Bar Certified in Health Law

May 30, 1996

Bill Truman, Environmental Manager  
Department of Environmental Protection  
2600 Blairstone Road  
Tallahassee, Florida 32399-2400

**Via Hand Delivery**

Re: APPLICATION FOR RECONSIDERATION OF COVERAGE UNDER FPLRIP;  
DEP Facility ID. NO. 538623822

Dear Mr. Truman:

In accordance with the provisions of CS/HB 1127, which was passed during the recently concluded 1996 general session of the Florida Legislature, please accept this notice as an application for reconsideration of eligibility in the FPLRIP program. Please send the notice of your determination to my attention.

1. Facility ID: No. 538623822
2. Site Owner: Ann Corneal Lawless Trust
3. Location: Polk County

*NO INSURANCE  
PE*

Please advise me if there are any other requirements for filing for a redetermination of FPLRIP eligibility. Also please consider this request as an application for eligibility in the Petroleum Cleanup Participation Program.

I look forward to your response.

Sincerely,

*Geoffrey D. Smith*  
Geoffrey D. Smith

RECEIVED  
D.E.R.  
96 MAY 30 PM 3:33  
STORAGE  
REGULATION

GDS\bss  
cc: C.F. Corneal  
gds\corneal\plrip.app

**PROGRAM ELIGIBILITY REVIEW CHECKLIST/ROUTING SLIP**

       EDI PA        FPLRIP        ATRP        OTHER        RP SWITCH

Site SNACK i Shop Fac.# 538623022 Reviewed By Lewis Lomax

Latitude 27 59 50 Longitude 81 44 37

INITIALS        DATE               Date of Original 12/6/95 MI  
Discovery Date

LR 5/30/96 LOI Discovery Date 4/6/93 Inspection Date 4/9/93

LR 7/25/96 Review Documentation

ALC 7/25/96 Prepare Letter or Final Order (Check Appropriate Line)  
 1. Eligible for Reimbursement and 95-2 LOF info sent  
 2. Eligible for State/Contracted Cleanup  
 3. Ineligible  
 4. Cleanup Responsibility Switch Approved

ALC 7/3/96 Review Letter (Check each line after verification of Information)  
 1. Proper Addressee  
 2. Facility Name  
 3. Facility Address  
 4. DEP Facility Number  
 5. CC: All Other Applicants  
 6. CC: District Inspector SW  
 7. CC: Local Program (if applicable)  
 8. CC: DEP OGC

ALM 8/12/96 Division Director Signature(stamp) Original  
ALM 8/12/96 Mail (Registered, if ineligible, partial, or amended)  
ALM 8/12/96 Signature stamp and Mail Copies  
N/A N/A MAPPER Update (ATRP only)  
ALM 9/12/96 File Copy of Letter or Final Order to Log Out

NA N/A **INELIGIBLE** Data Entry  
 Send or Return to File Room

ALC 7/3/96 **ELIGIBLE** Data Entry  
 Send to Ranking

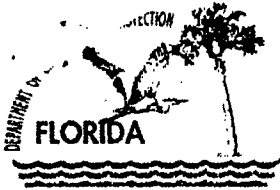
10,000 DEDUCTIBLE  EXISTING FILE/HISTORICAL REFERENCES:         NEW FILE

I - \$ 5,000.00  
 II - \$ 10,000.00

4/6/93 P/R I 8/17/94 I  
12/22/94 P/R I 12/6/95 NI

TOTAL - \$ 25,000.00

\$ 300,000 CAP



# Department of Environmental Protection

Lawton Chiles  
Governor

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

Virginia B. Wetherell  
Secretary

August 7, 1996

**-CERTIFIED MAIL-RETURN RECEIPT-**

Mr. Geoffrey D. Smith  
Blank, Rigsby & Meenan, P.A.  
Post Office Box 11068  
Tallahassee, Florida 32302-2068

RE: Snak & Shop - DEP Facility #538623822  
315 Ramsgate Road, Auburndale, Florida  
Total Deductible: ~~\$25,000~~

Dear Mr. Smith:

*\$20,000 D.O.D 12/22/94*

In accordance with Section 8, Chapter 96-277, Laws of Florida (L.O.F.), the Department has completed its review of documentation submitted for redetermination of eligibility under the Florida Petroleum Liability and Restoration Insurance Program (FPLRIP). The Department has determined that the contamination related to the storage of petroleum products as defined in Section 376.301(16), Florida Statutes (F.S.), at this site is eligible for state-funded remediation assistance. Pursuant to Section 8, Chapter 96-277, L.O.F., the following supplemental deductible(s) has(have) been added:

- (I): ~~\$5,000~~ Failure to report a discharge within one (1) working day after discovery.
- (II): ~~\$10,000~~ - Failure to take steps within three (3) days after discovering a new discharge to test or empty the storage system and complete within seven (7) days.

Pursuant to Section 8, Chapter 96-277, L.O.F., and effective March 29, 1995, no further site rehabilitation work on sites eligible for state assisted cleanup from the Inland Protection Trust Fund shall be eligible for reimbursement. For any site rehabilitation work conducted prior to March 29, 1995, reimbursement may be requested by December 31, 1996, regardless of whether the program task is completed. In accordance with Section 8, Chapter 96-277, L.O.F., future state assisted rehabilitation will be dictated by the site's priority ranking score, and shall be conducted on a pre-approval of scope of work and costs basis.

The person responsible for conducting site rehabilitation, or his agent, shall keep and preserve suitable records as follows: Of hydrological and other site investigations and assessments, site rehabilitation plans, contracts and contract negotiations, and accounts, invoices, sales





# Department of Environmental Protection

Lawton Chiles  
Governor

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

Virginia B. Wetherell  
Secretary

November 18, 1997

**-CERTIFIED MAIL-RETURN RECEIPT-**

Mr. Geoffrey D. Smith  
Blank, Rigsby & Meenan, P.A.  
Post Office Box 11068  
Tallahassee, Florida 32302-2068

**RE: Snak Shop - 315 Ramsgate Road, Auburndale, Florida**  
**Incident Date: December 22, 1994 - Total Deductible: \$20,000**  
**DEP Facility #538623822**

Dear Mr. Smith:

**This Order amends the Order of Eligibility issued on August 7, 1996, regarding the above referenced incident and modifies only the amount to be deducted.**

Pursuant to Section 376.3072(3), Florida Statutes (F.S.), supplemental deductibles shall not be applied cumulatively therefore, only the highest applicable supplemental deductible will be assessed. As indicated in the original Order of Eligibility you were assessed a deductible of \$25,000, that has been reduced to \$20,000.

- (I): Failure to report a discharge within one (1) working day after discovery.**
- (II): Failure to take steps within three (3) days after discovering a new discharge to test or empty the storage system and complete within seven (7) days.**

You have the following options:

If you choose to accept the above decision by the Department you do not have to do anything. This Order will become final 21 days after receipt of this Order, after which time you cannot file a petition for administrative hearing.

If you disagree with the decision, you may do one of the following within 21 days of receipt of this Order.

- 1). File a petition for administrative hearing with the Office of General Counsel within 21 days after receipt of this Order.
- 2). File a request for an extension of time to file a petition for hearing with the Office of General Counsel within 21 days after receipt of this Order.

*"Protect, Conserve and Manage Florida's Environment and Natural Resources"*

Co / Facility* <input type="text" value="53"/> <input type="text" value="3623322"/>		Facility Name and Address <input type="text" value="ARIANA DISCOUNT BEVERAGE"/> <input type="text" value="315 RAMS GATE RD"/> <input type="text" value="AUBURDALE"/> Florida		Manager <input type="text"/> Role <input type="text"/>		
Facility Status <input type="text" value="OPEN"/>		Facility Cleanup Status <input type="text" value="ONGO"/>		Highest Discharge Score <input type="text" value="30"/>		
Discharge Record <input type="text" value="1"/> of <input type="text" value="2"/>		Cleanup Info <input type="text" value="COMBINED"/>		Info Source <input type="text" value="D"/> <input type="text" value="DISCHARGE NOTIFICATI"/> Lead Agency <input type="text" value="LP"/> <input type="text" value="LOCAL PROGRAM"/> Cleanup Required* <input type="text" value="C"/> <input type="text" value="COMBINED CLEANUP RE"/>		
Discharge Info <input type="text" value="04/06/1993"/>		Discharge Date* <input type="text" value="04/06/1993"/>		Inspection Date <input type="text" value="04/09/1993"/>		
Combined With <input type="text" value="12/22/1994"/>		Discharge Date* <input type="text" value="12/22/1994"/>		Cleanup Status/Date <input type="text" value="SA"/> <input type="text" value="01/30/1995"/>		
Eligibility and Application Info	Application Received <input type="text" value="07/29/1994"/>	Cleanup Program <input type="text" value="P"/>		Status <input type="text" value="I"/>	Determination Letter Sent <input type="text" value="08/17/1994"/>	Redetermined? <input type="text" value="N"/>
	<input type="text"/>	<input type="text"/>			<input type="text"/>	
	<input type="text"/>	<input type="text"/>			<input type="text"/>	
	<input type="text"/>	<input type="text"/>			<input type="text"/>	

Co / Facility* 63 3623822 Facility Status OPEN		Facility Name and Address ARIANA DISCOUNT BEVERAGE 315 RAMS GATE RD AUBURNDALE Florida		Manager Facility Cleanup Status ONGO Highest Discharge Score 30 Discharge Record 2 of 2	
Cleanup Info COMBINED		Info Source <input type="checkbox"/> PLIRP (INSURANCE) Lead Agency LP LOCAL PROGRAM Cleanup Required* <input checked="" type="checkbox"/> COMBINED CLEANUP RE		Discharge Score 30 Score Effective Date 04/14/2009	
Discharge Info		Discharge Date* 12/22/1994 Combined With 04/06/1993		Inspection Date 04/09/1993 Cleanup Status/Date RA 09/26/2002	
Eligibility and Application Info		Application Received 12/22/1994		Cleanup Program P	
		Lead A		Status E	
				Determination Letter Sent 11/18/1997	
				Redetermined? N	





September 5, 2016

Ms. Michelle Allard, P.G.  
Senior Geologist  
Northstar Contracting Group, Inc.  
Petroleum Restoration Program, Section 5  
508-A Capital Circle, S.E., Tallahassee, FL 32301

**RE: Low-Scored Site Initiative Site Assessment Report**  
**Ariana Discount Beverage**  
315 Ramsgate Rd  
Auburndale, FL  
Facility ID#: 53/8623822  
MAS Project #: L00036

Dear Ms. Allard,

MAS Environmental, LLC (MAS) is pleased to provide this Low-Score Site Initiative (LSSI) Site Assessment Report for the above mentioned site. This work was completed under FDEP LSSI Work Order #2015-95-W9267A. Herein are a brief site background, a summary of the field activities and an evaluation of the field and laboratory analytical results. The goal of these activities was to determine if this site qualifies for a No Further Action (NFA) designation for the eligible discharge.

## **SITE BACKGROUND**

### **Discharge & Site History**

This site is currently used as an active gas station. There is currently one (1) 20,000-gallon capacity underground storage tank (UST) onsite. Historically, the site housed two (2) 8,000 gallon capacity USTs. Which were installed in 1972, relined in 1994 and removed in 2005.

A Discharge Notification Form (DRF) was submitted to the FDEP on April 6, 1993 in response to suspected soil contamination discovered during retrofitting and free product discovered in the Southwest monitoring well.

Site assessment activities were conducted in 2001 and 2002 by OES. A Level 4 SAR was submitted on September 27, 2001, documenting the occurrence of a small groundwater plume of dissolved-phase VOAs, mainly benzene, proximal to the southern end of the dispenser pump island and an undetermined volume of petroleum-impacted soil proximal to the southern end of the pump island. In 2002, three additional shallow monitoring wells and one vertical extent well were installed to adequately delineate the lateral and vertical extent of the groundwater plume south of the disperse island. The 2002 SAR was approved and a RAP was requested.

A RAP was submitted in July 2002 proposing Multi-Phase Extraction (MPE). The RAP was reviewed and deemed incomplete. A RAP Addendum 1 and 2 were submitted in November 2002 and February 2003, respectively.

The RAP Addendum was approved, but a RAP order was not issued. The Polk County Deliverable Review letter read "The RAP supplemented by the referenced addendums is acceptable and demonstrates that the work outlined in Work Order No. 2001-53- 0709-0 was satisfactorily performed and can be invoiced. A Remedial Action Plan Approval Order is not being processed at this time because it is the Department's opinion that Air Sparge/Soil Vapor Extraction (AS/SVE) may be the most cost effective cleanup method for this site and that an AS/SVE pilot test and re-sampling of the groundwater monitoring wells is necessary before finalizing and approving the RAP. The Department will consider using Multi-Phase Extraction (MPE) cleanup method if conducted under a Pay For Performance (PFP) Agreement."

As a result of a change in funding procedures, work at the site was suspended and no further work has been completed.

### Potable Well Survey

According to a Potable Well Survey dated May 24, 2013, no large public supply wells were located within one-half mile of the subject facility and no small potable wells were located within one-quarter mile of the subject facility

## SUMMARY OF FIELD ACTIVITIES

### Quality Assurance

Field activities were conducted in general accordance with FDEP standard operating procedures and industry accepted practices. Soil assessment tasks were conducted in general accordance with the DEP-SOP, Guidance Memos, and Chapter 62-160 Florida Administrative Code (FAC).

### Soil Boring and Soil Screening Activities

On May 31, 2016, MAS directed the advancement of seventeen (17) soil borings (SB-1 through SB-17) at the locations shown on Figure 1. All of the borings were advanced to a depth of six (6) ft bls. Soil samples were collected from each boring and screened using an Organic Vapor Analyzer (OVA). Following the soil screening activities, four (4) soil samples were collected as follows:

Boring No.	Date Collected	Depth to Water (ft bls)	Sample Interval (ft bls)	Net OVA Reading (ppm)
SB-3	5/31/16	~ 4	1-2	37
SB-4	5/31/16	~ 4	0-1	66
SB-15	5/31/16	~ 4	1-2	980
SB-15	5/31/16	~ 4	2-3	530

Each of the four (4) soil samples were analyzed for benzene, toluene, ethylbenzene, total xylenes, and methyl tert-butyl ether (BTEX/MTBE) using EPA Method 8260, polycyclic aromatic hydrocarbons (PAHs) using EPA Method 8310, and TRPH using the State Method FL-PRO. TRPH Speciation and Synthetic Precipitation Leaching Procedure (SPLP) were also performed on the soil sample from SB-15 from 1-2 ft bls. Copies of the boring logs are provided in Appendix A.

### **Monitoring Well Installation**

Following the soil screening activities and discussions with the FDEP, MAS supervised the installation of one (1) replacement monitoring well (MW-1) and four (4) new monitoring wells (MW-8 through MW-11) on May 31 and June 1, 2016 at the locations depicted on Figure 1.

The wells were constructed with two (2) feet of 1-inch diameter schedule 40 PVC riser and ten (10) feet of 0.01-inch slotted pre-packed screen. A copy of the well construction completion log is presented in Appendix A.

### **Groundwater Sampling Activities**

On June 6, 2016, groundwater samples were collected from all onsite monitoring wells (MW-1R, and MW-4 through MW-11). Prior to sampling, the depth to water was measured in each well.

The groundwater sampling was performed in general accordance with FDEP standard operating procedure 01/001 FS – 2200. Following sample collection, the groundwater samples were placed in dedicated containers on ice, and delivered to Jupiter Environmental Laboratories (JEL). The collected samples were analyzed for the presence of BTEX/MTBE using EPA Method 8260, PAHs using EPA Method 8270, and TRPHs using State Method FL-PRO. The completed groundwater sampling logs are included in Appendix B.

## **SUMMARY OF RESULTS**

### **Soil Results**

The OVA results ranged from below the detection limit to greater than 980 parts per million (ppm) which was encountered at the location of SB-15, from 1-2 ft bls. A summary of OVA data is included as Table 1.

The results of the soil analyses identified the presence of naphthalene, 1-methylnaphthalene, 2-methylnaphthalene, and TRPH in excess of their respective Leachability Soil Cleanup Target Levels (SCTLs) per Chapter 62-777, Florida Administrative Code (FAC) in the soil sample from SB-15, from 1-2 ft bls. The SPLP results indicated that the leachate exceeded Groundwater Cleanup Target Levels (GCTLs) for naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene in the soil sample from SB-15, from 1-2 ft bls. The results of the TRPH Speciation did not identify any individual fractions of hydrocarbon chains in excess of their individual SCTLs in the soil sample from SB-15, from 1-2 ft bls. No other petroleum constituents were identified above their SCTLs in any of the other soil samples.

A summary of the analytical results is provided in **Tables 2A-2E** and illustrated on **Figure 2**. The complete laboratory analytical report is included as **Appendix C**.

### **Groundwater Elevation**

On **June 6, 2016**, the depth to groundwater ranged from **0.80 to 2.15 feet** below top of casing (ft btc). A summary of the groundwater elevation data is presented in **Table 3**. The groundwater flow direction beneath the site on **June 6, 2016** was observed to be generally towards the southeast as shown on **Figure 3**.

### **Groundwater Analytical Results**

The results of the groundwater analyses identified the presence of benzo(a)pyrene constituents in excess of their respective GCTLs in the groundwater sample from MW-4. Naphthalene was also identified above the GCTL in the groundwater sample from MW-8.

A summary of the groundwater analytical results is provided in **Tables 4A- 4C** and illustrated on **Figure 4**. The laboratory analytical report is included as **Appendix C**.

## **CONCLUSIONS AND RECOMMENDATIONS**

- The OVA results ranged from below the detection limit to greater than 980 parts per million (ppm) which was encountered at the location of SB-15, from 1-2 ft bls.
- The results of the soil analyses identified the presence of naphthalene, 1-methylnaphthalene, 2-methylnaphthalene, and TRPH in excess of their respective SCTLs in the soil sample from SB-15, from 1-2 ft bls
- The SPLP results indicated that the leachate exceeded GCTLs for naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene in the soil sample from SB-15, from 1-2 ft bls.
- The results of the TRPH Speciation did not identify any individual fractions of hydrocarbon chains in excess of their individual SCTLs in the soil sample from SB-15, from 1-2 ft bls.
- On **June 6, 2016**, the depth to groundwater ranged from **0.80 to 2.15 ft btc** and the groundwater flow direction beneath the site was observed to be generally towards the southeast.
- The results of the groundwater analyses identified the presence of benzo(a)pyrene constituents in excess of their respective GCTLs in the groundwater sample from MW-4. Naphthalene was also identified in excess of the GCTL in the groundwater sample from MW-8.

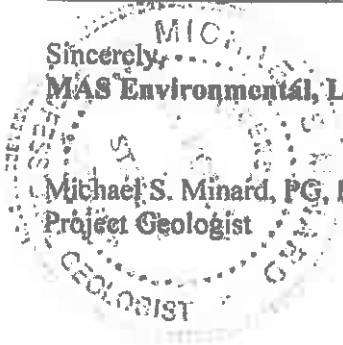


Based on the findings and correspondence with the FDEP, MAS recommends conducting a small scale excavation to remediate soil and groundwater impacts identified during this assessment. Prior to finalizing the scope of any remedial action, however, MAS recommends re-sampling MW-4 for PAHs using a filter to confirm that the benzo(a)pyrene impacts are representative of actual site conditions and not caused from particulates in the surface water runoff since these constituents were not previously identified in the groundwater at this site. Since the Period of Service (POS) of the current Work Order (WO) is almost expired, MAS recommends continuing assessment activities under a new WO.

Please contact us directly should you have any questions at (813) 658-8823, or by email at or [meichenholtz@mas-env.com](mailto:meichenholtz@mas-env.com). MAS appreciates the opportunity to be of service to the FDEP.

Sincerely,  
MAS Environmental, LLC

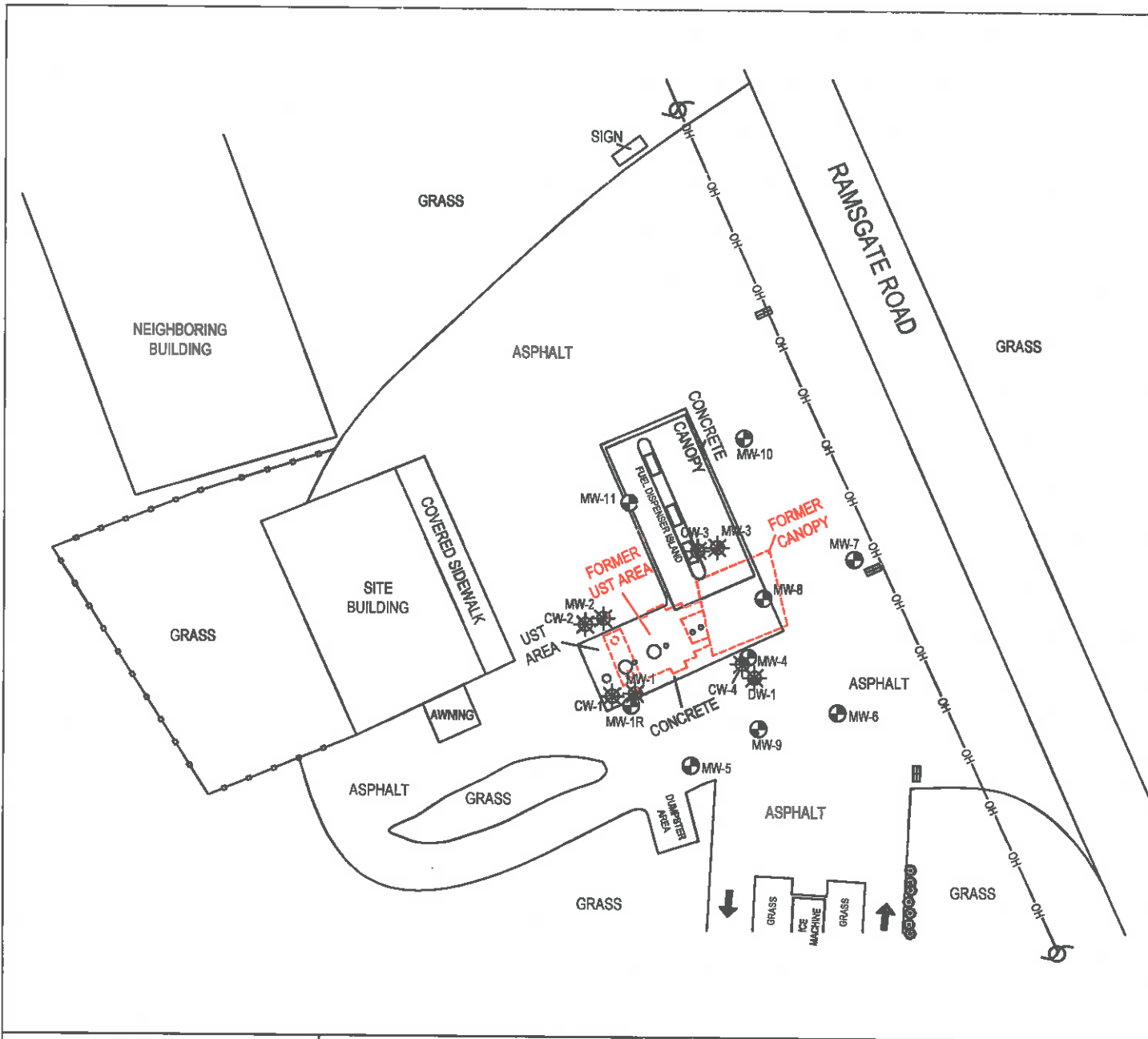
Michael S. Minard, PG, FL#2863  
Project Geologist





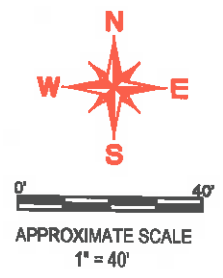
**FIGURES & TABLES**

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**LEGEND**

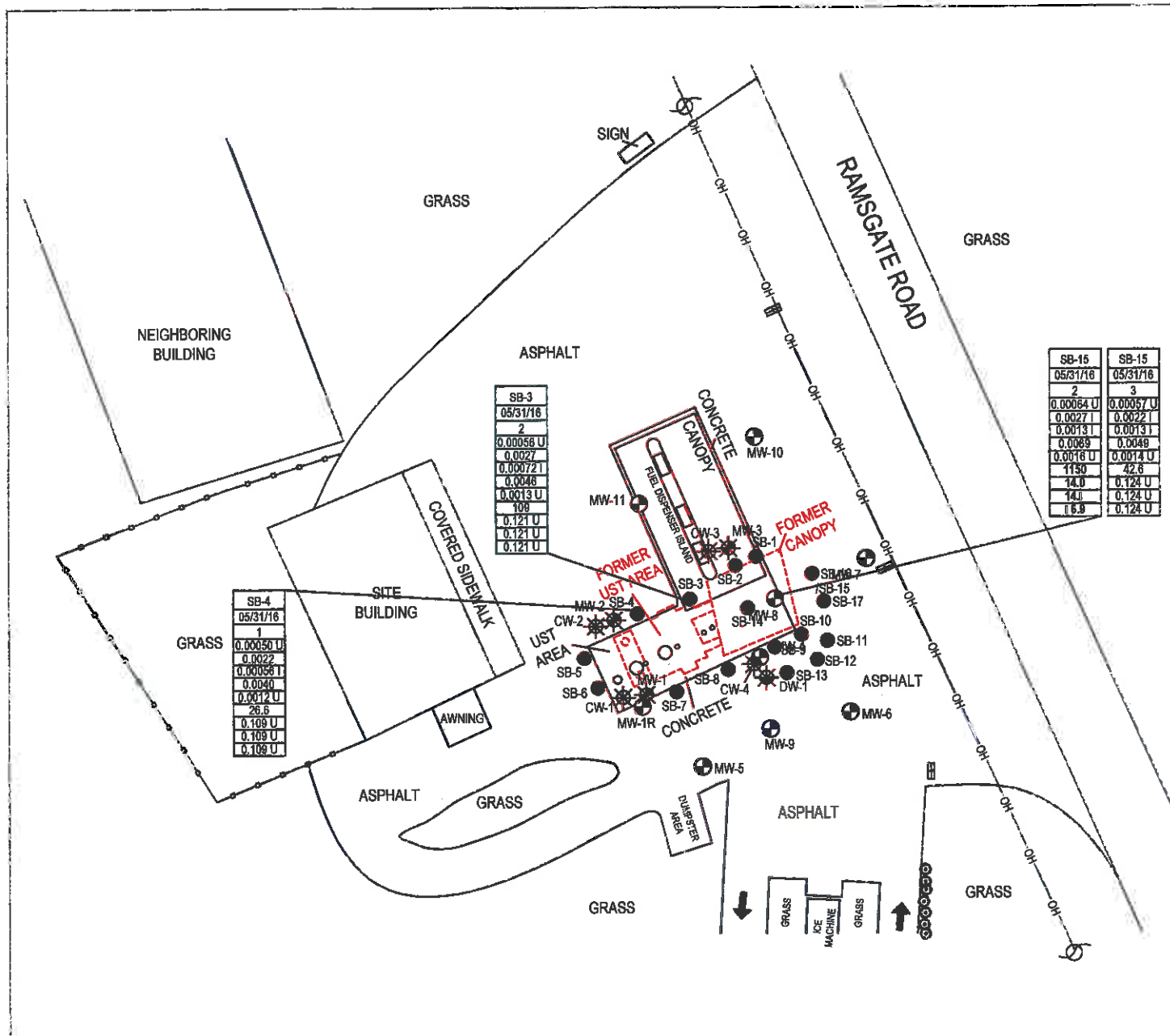
	OVERHEAD UTILITY LINE		TREE
	UTILITY POLE		STORMWATER INLET
	MONITORING WELL LOCATION AND DESIGNATION		ABANDONED MONITORING WELL LOCATION AND DESIGNATION
	ABANDONED COMPLIANCE MONITORING WELL LOCATION AND DESIGNATION		ABANDONED DEEP MONITORING WELL LOCATION AND DESIGNATION



ARIANA DISCOUNT BEVERAGE  
315 RAMSGATE ROAD  
AUBERNDALE, POLK COUNTY, FLORIDA  
FDEP FAC. ID. NO.: 53/8623822

**SITE MAP**

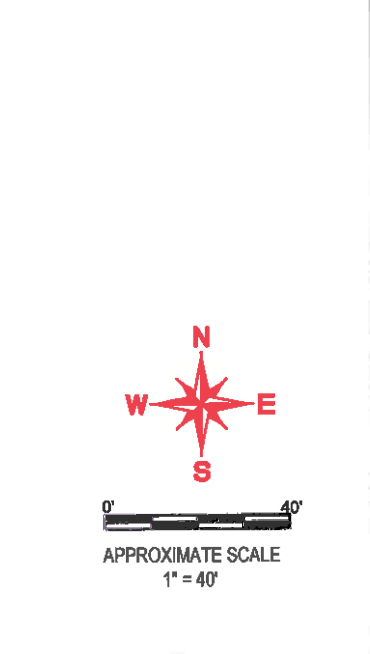
**FIGURE 1**  
PROJECT No. L00036



### LEGEND

- OH ——— OVERHEAD UTILITY LINE
- UTILITY POLE
- TREE
- STORMWATER INLET
- MONITORING WELL LOCATION AND DESIGNATION
- ABANDONED MONITORING WELL LOCATION AND DESIGNATION
- ABANDONED COMPLIANCE MONITORING WELL LOCATION AND DESIGNATION
- ABANDONED DEEP MONITORING WELL LOCATION AND DESIGNATION
- SOIL BORING LOCATION AND DESIGNATION

SB-1	SAMPLE DESIGNATION
05/31/16	SAMPLE DATE
2	SAMPLE INTERVAL (FT)
0.007	BENZENE CONCENTRATION (g/g)
0.6	TOLUENE CONCENTRATION (g/g)
0.6	ETHYLBENZENE CONCENTRATION (g/g)
0.0069	TOTAL XYLENE CONCENTRATION (g/g)
0.00	MIBK CONCENTRATION (g/g)
36	TRIPH CONCENTRATION (g/g)
1150	NAPHTHALENE CONCENTRATION (g/g)
14.0	1-METHYLNAPHTHALENE CONCENTRATION (g/g)
8.1	2-METHYLNAPHTHALENE CONCENTRATION (g/g)

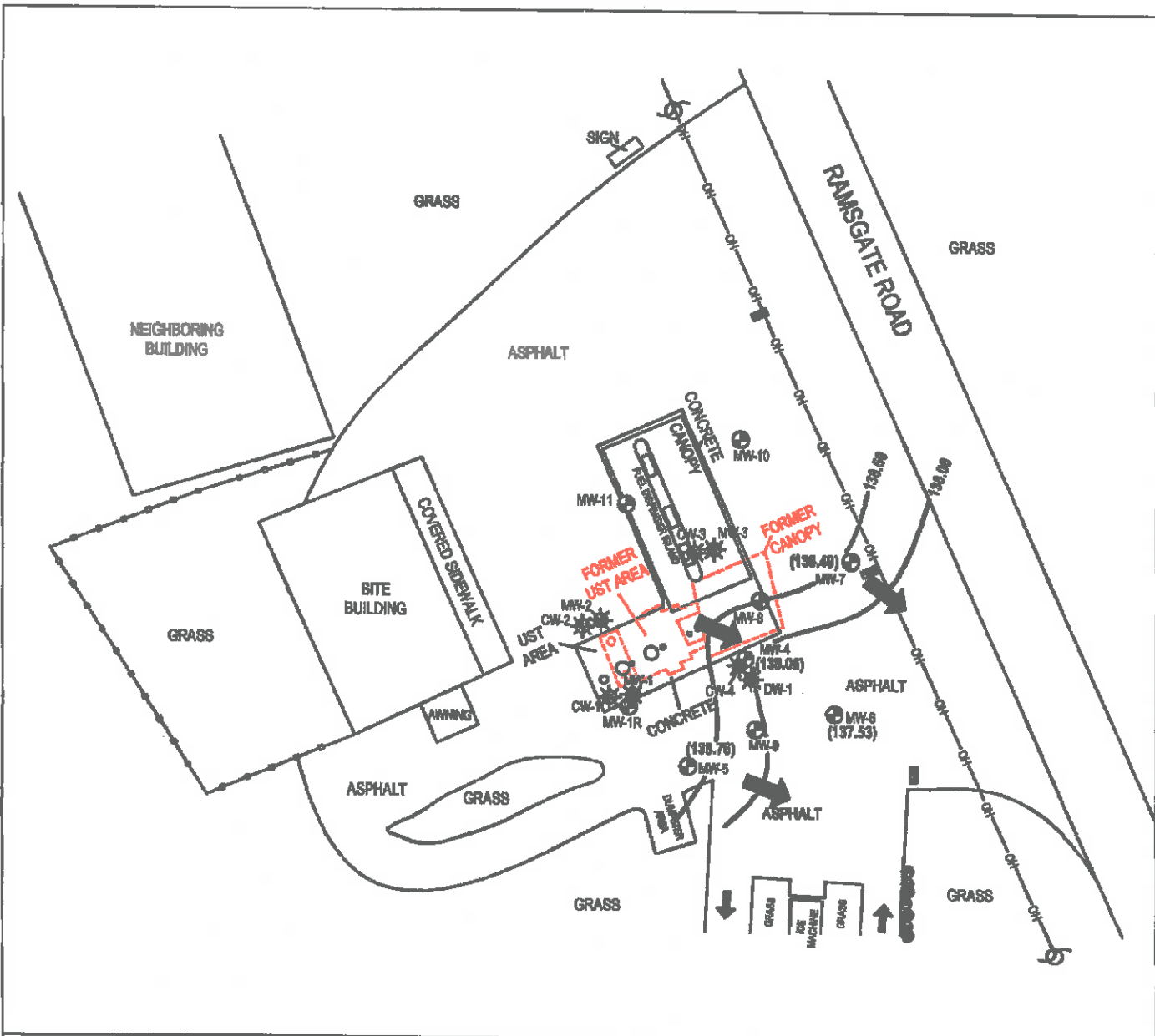


**LEGEND**

- OH — OVERHEAD UTILITY LINE
- ⊕ UTILITY POLE    ⊗ TREE
- ⬇️ STORMWATER INLET
- ⊕ MW-4 MONITORING WELL LOCATION AND DESIGNATION
- ⊗ MW-1 ABANDONED MONITORING WELL LOCATION AND DESIGNATION
- ⊗ CW-1 ABANDONED COMPLIANCE MONITORING WELL LOCATION AND DESIGNATION
- ⊗ DW-1 ABANDONED DEEP MONITORING WELL LOCATION AND DESIGNATION
- (138.06) GROUNDWATER ELEVATION
- 138.00 ⤴️ WATER TABLE CONTOUR
- ➔ FLOW DIRECTION



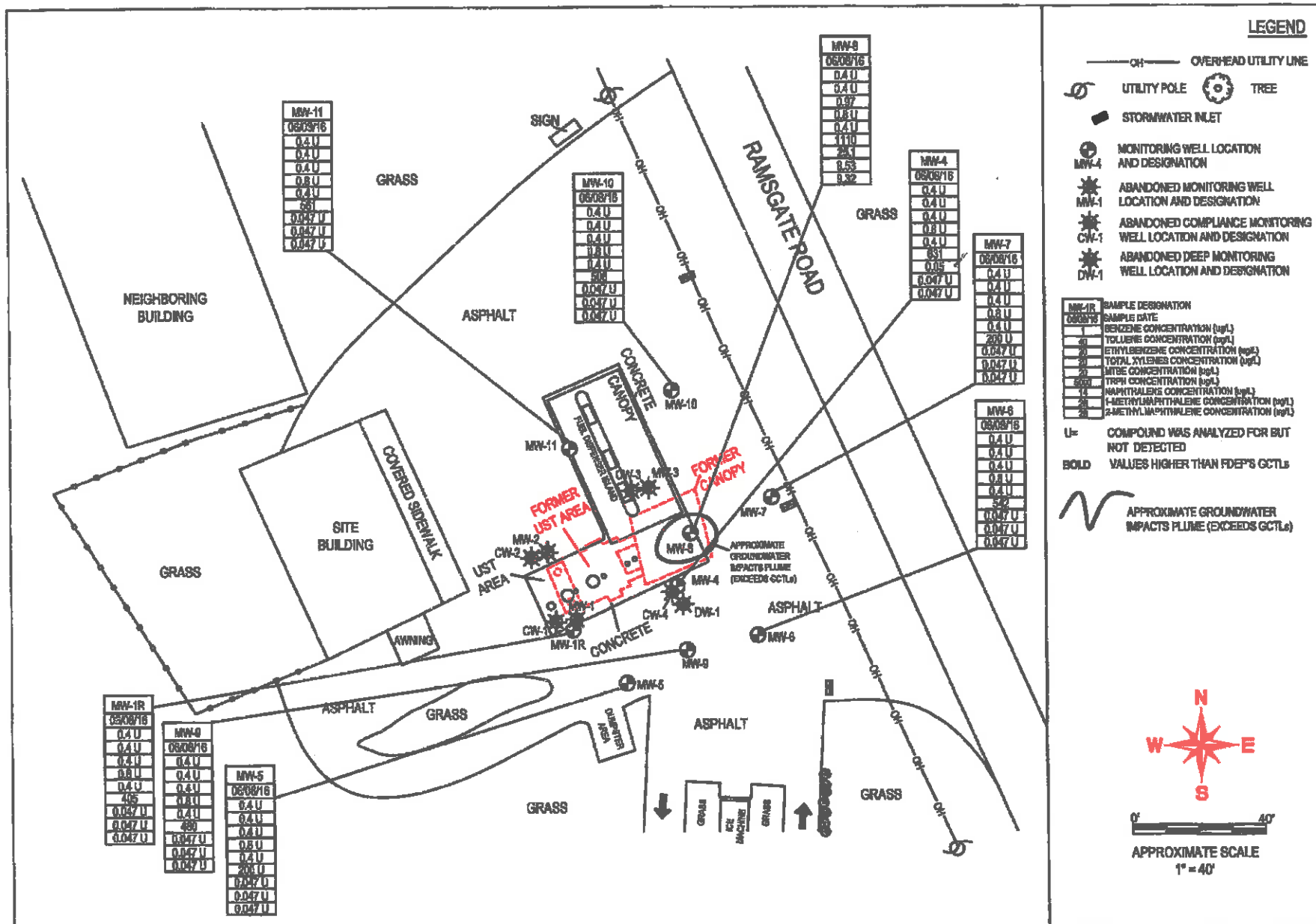
0' 40'  
APPROXIMATE SCALE  
1" = 40'

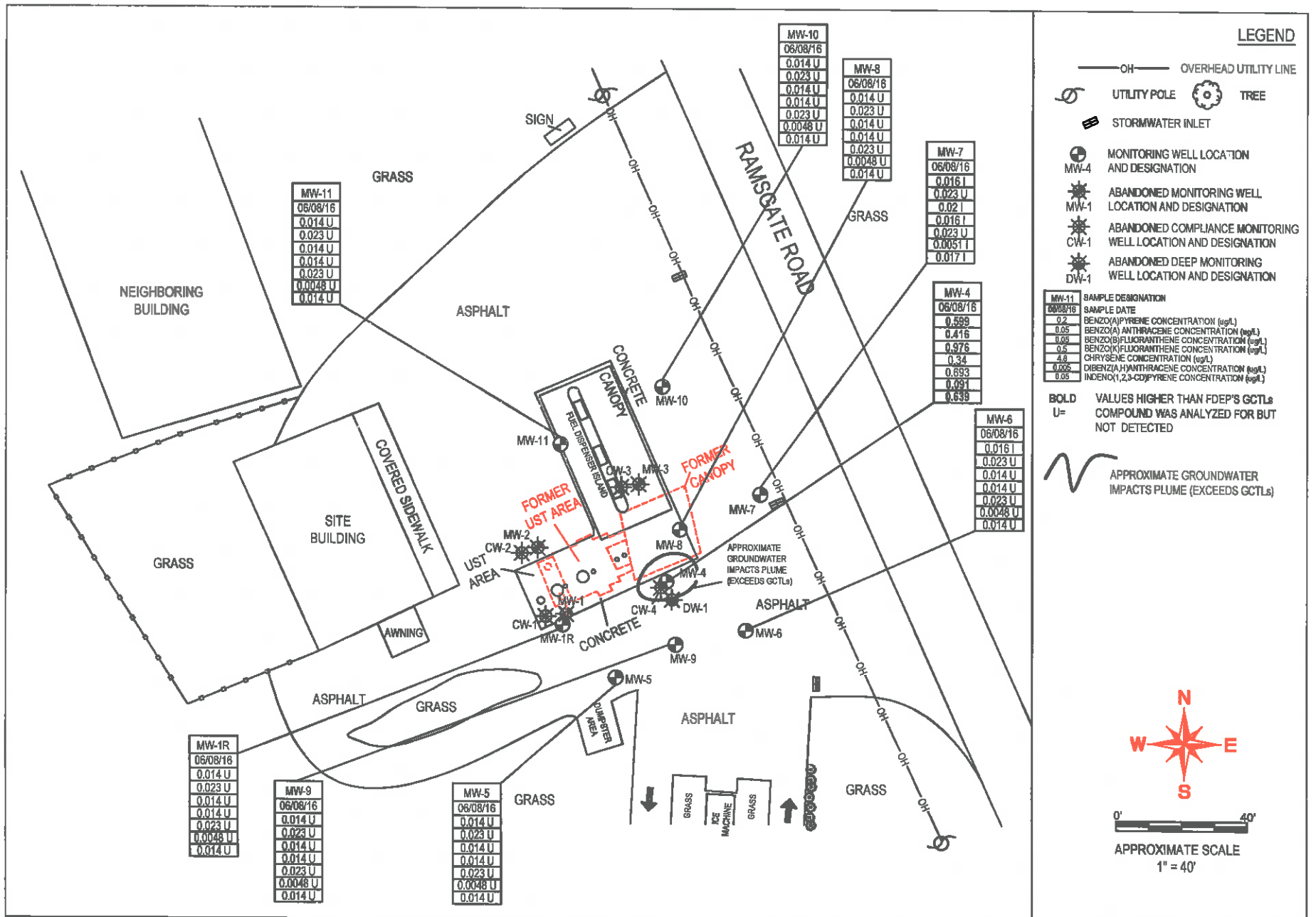


ARIANA DISCOUNT BEVERAGE  
315 RAMSGATE ROAD  
AUBERNDALE, POLK COUNTY, FLORIDA  
FDEP FAC. ID. NO.: 63/6623622

**GROUNDWATER ELEVATION  
CONTOUR MAP (06/08/16)**

FIGURE  
3  
PROJECT No.  
L80036





ARIANA DISCOUNT BEVERAGE  
 315 RAMSGATE ROAD  
 AUBERNDALE, POLK COUNTY, FLORIDA  
 FDEP FAC. ID. NO.: 53/8623822

GROUNDWATER ANALYTICAL SUMMARY MAP  
 BENZO (a) PYRENE CONSTITUENTS (06/08/16)

FIGURE  
 4B  
 PROJECT No.  
 L00036

**TABLE 1: SOIL SCREENING SUMMARY**

Facility Name: Ariana Discount Beverage

SAMPLE			OVA SCREENING RESULTS			COMMENTS
Boring Number	Date Collected	Sample Depth (ft bis)	Total Reading (ppm)	Carbon Filtered (ppm)	Net Reading (ppm)	
SB-1	04/12/01	2	20	0	20	
		4	22	0	22	
		6	170	250	NQ	
		8	80	150	NQ	
SB-2	04/12/01	2	0	0	0	
		4	0	0	0	
		6	150	150	0	
		8	60	55	5	
SB-3	04/12/01	2	0	0	0	
		4	0	0	0	
		6	225	70	155	
		8	275	235	40	
SB-4	04/12/01	2	0	0	0	
		4	0	0	0	
		6	0	0	0	
		8	40	40	0	
SB-5	04/12/01	2	0	0	0	
		4	0	0	0	
		6	0	0	0	
		8	45	17	28	
SB-6	04/12/01	2	0	0	0	
		4	0	0	0	
		6	0	0	0	
		8	15	0	15	
SB-7	09/12/01	0-2	0	-	0	
		2-4	3	-	3	
		4-8	0	-	0	
SB-8	09/12/01	0-2	0	-	0	
		2-4	0	-	0	
		4-6	5	-	5	
SB-9	09/12/01	0-2	0	-	0	
		2-4	0	-	0	
		4-8	0	-	0	
MW-1	09/12/01	0-2	0	-	0	
		2-4	0	-	0	
		4-8	0	-	0	
MW-2	09/12/01	0-2	0	-	0	
		2-4	0	-	0	
		4-6	0	-	0	
MW-3	09/12/01	0-2	3	0	3	
		2-4	0	-	0	
		4-6	0	-	0	
		6-8	0	-	0	
		8-12	NR	NR	NR	
MW-4	09/12/01	0-2	2000	40	1960	
		2-4	18	18	0	
		4-6	50	25	25	
MW-5	02/05/02	0-2	0	NR	0	
		2-4	0	NR	0	
		4-6	0	NR	0	
MW-6	02/08/02	0-2	0	NR	0	
		2-4	0	NR	0	
		4-6	0	NR	0	
MW-7	02/08/02	0-2	0	0	0	
		2-4	0	0	0	
		4-6	0	0	0	
		6-8	100	60	40	
DW-1	02/07/02	0-2	0	NR	0	
		2-4	0	NR	0	
		4-6	70	100	NQ	
		6-8	225	400	NQ	
SB-1	05/31/16	1	NR		NR	
		2	NR		NR	
		3	NR		NR	
		4	NR		NR	
		5	NR		NR	
		6	NR		NR	



**TABLE 1: SOIL SCREENING SUMMARY**

Facility Name: Ariana Discount Beverage

SAMPLE			OVA SCREENING RESULTS			COMMENTS
Boring Number	Date Collected	Sample Depth (ft bis)	Total Reading (ppm)	Carbon Filtered (ppm)	Net Reading (ppm)	
SB-2	05/31/16	1	NR		NR	
SB-3	05/31/16	1	NR		NR	
		2	37		37	
		3	3		3	
		4	NR		NR	
		5	NR		NR	
		6	NR		NR	
SB-4	05/31/16	1	66		66	
		2	7		7	
		3	NR		NR	
		4	NR		NR	
		5	NR		NR	
		6	NR		NR	
SB-5	05/31/16	1	NR		NR	
		2	NR		NR	
		3	NR		NR	
		4	NR		NR	
		5	NR		NR	
		6	NR		NR	
SB-6	05/31/16	1	NR		NR	
		2	NR		NR	
		3	NR		NR	
		4	NR		NR	
		5	NR		NR	
		6	NR		NR	
SB-7	05/31/16	1	5		5	
		2	NR		NR	
		3	NR		NR	
		4	NR		NR	
		5	NR		NR	
		6	4		4	
SB-8	05/31/16	1	NR		NR	
		2	NR		NR	
		3	NR		NR	
		4	NR		NR	
		5	NR		NR	
		6	2		2	
SB-9	05/31/16	1	3		3	
		2	NR		NR	
		3	NR		NR	
		4	NR		NR	
		5	4		4	
		6	NR		NR	
SB-10	05/31/16	1	NR		NR	
		2	NR		NR	
		3	NR		NR	
		4	NR		NR	
		5	NR		NR	
		6	NR		NR	
SB-11	05/31/16	1	NR		NR	
		2	NR		NR	
		3	NR		NR	
		4	NR		NR	
		5	NR		NR	
		6	2		2	
SB-12	05/31/16	1	NR		NR	
		2	NR		NR	
		3	NR		NR	
		4	NR		NR	
		5	NR		NR	
		6	NR		NR	
SB-13	05/31/16	1	NR		NR	
		2	NR		NR	
		3	NR		NR	
		4	NR		NR	
		5	NR		NR	
		6	NR		NR	

**TABLE 1: SOIL SCREENING SUMMARY**

Facility Name: Ariana Discount Beverage

SAMPLE			OVA SCREENING RESULTS			COMMENTS
Boring Number	Date Collected	Sample Depth (ft ble)	Total Reading (ppm)	Carbon Filtered (ppm)	Net Reading (ppm)	
SB-14	05/31/16	1	CONCRETE			
SB-15	05/31/16	1	NR		NR	
		2	980		980	
		3	530		530	
		4	129		129	
		5	48		48	
		6	28		28	
SB-16	05/31/16	1	NR		NR	
		2	26		26	
		3	7		7	
		4	6		6	
		5	NR		NR	
		6	NR		NR	
SB-17	05/31/16	1	NR		NR	
		2	2		2	
		3	NR		NR	
		4	NR		NR	
		5	NR		NR	
		6	NR		NR	

**TABLE 2A: SOIL ANALYTICAL SUMMARY - VOA, TRPH, Metals**

Facility Name: Ariana Discount Beverage

FDEP Facility ID#: 53/8623822

Sample					OVA	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	TRPHs	Arsenic	Cadmium	Chromium	Lead
						(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
<b>SCTL for Leachability Based on Groundwater Criteria</b>						<b>0.007</b>	<b>0.5</b>	<b>0.6</b>	<b>0.2</b>	<b>0.08</b>	<b>340</b>	<b>*</b>	<b>7.5</b>	<b>38</b>	<b>*</b>
<b>SCTL for Direct Exposure Residential</b>						<b>1.2</b>	<b>7,500</b>	<b>1,500</b>	<b>130</b>	<b>4,400</b>	<b>460</b>	<b>2.1</b>	<b>82</b>	<b>210</b>	<b>400</b>
Boring No. / Well ID No.	Date Collected	Depth to Water (ft bte)	Sample Interval (ft bte)	Net OVA Reading (ppm)											
SS1	4/12/2001					0.13 U	0.13 U	0.13 U	0.38 U	0.13 U	46	NS	NS	NS	NS
SS2	4/12/2001					0.18 U	0.18 U	0.18 U	0.54 U	0.18 U	11 U	NS	NS	NS	NS
SS3	4/12/2001					0.15 U	0.15 U	0.15 U	0.45 U	0.15 U	130	NS	NS	NS	NS
SB-15, 2'	5/31/2016	4	2	980		0.0064 U	0.0027 I	0.0013 I	0.0069	0.0016 U	1150	NS	NS	NS	NS
SB-15, 3'	5/31/2016	4	3	530		0.0057 U	0.0022 I	0.0013 I	0.0049	0.0014 U	42.6	NS	NS	NS	NS
SB-3, 2'	5/31/2016	4	2	37		0.0056 U	0.0027	0.00072 I	0.0046	0.0013 U	109	NS	NS	NS	NS
SB-4, 1'	5/31/2016	4	1	66		0.0005 U	0.0022	0.00056 I	0.004	0.0012 U	26.6	NS	NS	NS	NS

NOTES: NA = Not Available

NS = Not Sampled

\* = Leachability value may be determined using TCLP.

**Bold** indicates analyte is detected above the SCTL.

**TABLE 2B: SOIL ANALYTICAL SUMMARY - Non-Carcinogenic PAHs**

Facility Name: Ariana Discount Beverage

FDEP Facility ID#: 53/8623822

Sample					OVA	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (g,h,i) perylene	Fluoranthene	Fluorene	Phenanthrene	Pyrene
						(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
<b>SCTL for Leachability Based on Groundwater Criteria</b>						1.2	3.1	8.5	2.1	27	2,500	32,000	1,200	160	250	880
<b>SCTL for Direct Exposure Residential</b>						55	200	210	2,400	1,800	21,000	2,500	3,200	2,600	2,200	2,400
Boring No. / Well ID No.	Date Collected	Depth to Water (ft bls)	Sample Interval (ft bls)	Net OVA Reading (ppm)												
SS1	4/12/2001				0.014	0.010 U	0.012	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.013	0.010 U
SS2	4/12/2001				0.010 U	0.076	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
SS3	4/12/2001				0.010 U	0.010 U	0.010 U	0.010 U	0.012	0.010 U	0.010 U	0.15	0.010 U	0.15	0.11	
SB-15, 2'	5/31/2016	4	2	<b>980</b>	14	14.2	26.9	0.135 I	0.13 I	0.098 I	0.043 I	0.08 I	0.25 I	0.236 I	0.074 I	
SB-15, 3'	5/31/2016	4	3	<b>530</b>	0.124 U	0.124 U	0.124 U	0.062 U	0.062 U	0.062 U	0.037 U	0.062 U	0.062 U	0.062 U	0.062 U	
SB-3, 2'	5/31/2016	4	2	<b>37</b>	0.121 U	0.121 U	0.121 U	0.061 U	0.061 U	0.061 U	0.036 U	0.061 U	0.061 U	0.061 U	0.061 U	
SB-4, 1'	5/31/2016	4	1	<b>66</b>	0.109 U	0.109 U	0.109 U	0.055 U	0.055 U	0.055 U	0.063 I	0.07 I	0.055 U	0.055 U	0.062 I	

NOTES: NA = Not Available

NS = Not Sampled

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

Bold indicates analyte is detected above the SCTL.

**TABLE 2C: SOIL ANALYTICAL SUMMARY - Carcinogenic PAHs**

Facility Name: Arlana Discount Beverage

FDEP Facility ID#: 53/8623822

Sample					OVA	Benzo (a) pyrene	Benzo (a) anthracene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Indeno (1,2,3-cd) pyrene	Benzo (a) pyrene equivalent
						(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SCTL for Leachability Based on Groundwater Criteria						8	0.8	2.4	24	77	0.7	6.6	8
SCTL for Direct Exposure Residential						0.1	1.3	1.3	13	130	0.1	1.3	0.1
SCTL for Direct Exposure Commercial						0.7	6.6	6.5	66	640	0.7	6.6	0.7
Boring No. / Well ID No.	Date Collected	Depth to Water (ft bls)	Sample Interval (ft bls)	Net OVA Reading (ppm)									
SS1	4/12/2001					0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	
SS2	4/12/2001					0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	
SS3	4/12/2001					0.022	0.025	0.034	0.010 U	0.049	0.010 U	0.018	
SB-15, 2'	5/31/2016	4	2	980		0.026 U	0.052 I	0.041 I	0.042 U	0.042 U	0.026 I	0.042 U	0.05
SB-15, 3'	5/31/2016	4	3	530		0.023 U	0.037 U	0.032 U	0.037 U	0.037 U	0.0089 U	0.037 U	0.02
SB-3, 2'	5/31/2016	4	2	37		0.022 U	0.036 U	0.034 I	0.036 U	0.036 U	0.0087 U	0.036 U	0.02
SB-4, 1'	5/31/2016	4	1	66		0.065 I	0.033 U	0.072 I	0.038 I	0.057 I	0.023 I	0.055 I	0.1

NOTES: NA = Not Available

NS = Not Sampled

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

bold indicates analyte is detected above the SCTL.

## TABLE 2D: SOIL ANALYTICAL SUMMARY - SPLP RESULTS

Facility Name: Ariana Discount Beverage

FDEP Facility ID#: 53/8623822

Sample	Naphthalene	1-Methyl-naphthalene	2-Methyl-naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (g,h,i) perylene	Flouranthene	Flourene	Phenan-threne	Pyrene		
	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)		
GCTLs	14	28	28	20	210	2100	210	280	280	210	210		
NADCs	140	280	280	200	2100	21000	2100	2800	2800	2100	2100		
Location	Date												
SB-15 @ 2' SPLP	5/31/2016		166	66.3	107	0.351	0.113	0.048 I	0.015 U	0.025 U	0.388	0.158	0.025 U

Notes:

NS = Not Sampled.

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

U = Not Detected

I = Result > MDL but < PQL

D = Analyte reported from Dilution Analysis

GCTLs = Groundwater Cleanup Target Levels specified in Table I of Chapter 62-777, F.A.C.

NADCs = Natural Attenuation Default Source Concentrations specified in Table V of Chapter 62-777, F.A.C.

\*\* = As provided in Chapter 62-550, F.A.C.

**TABLE 2E: SOIL ANALYTICAL SUMMARY - TRPH Speciation**

Facility Name: Ariana Discount Beverage

FDEP Facility ID#: 53/8623822

					5-7 C Aromatics	7-8 C Aromatics	8-10 C Aromatics	10-12 C Aromatics	12-16 C Aromatics	16-21 C Aromatics	21-35 C Aromatics
					(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SCTL for Leachability Based on Groundwater Criteria					34	59	340	520	1,000	3200	25000
SCTL for Direct Exposure Residential					340	490	460	900	1,500	1,300	2,300
Soil Cleanup Target Level for Direct Exposure Commercial (mg/kg)					1,800	3,700	2,700	5,900	12,000	11,000	40,000
Boring No.	Date Collected	Depth to Water (ft b/s)	Sample Interval (f/s)	Net OVA Reading (ppm)							
SB-15 @ 2'	5/31/2016	4	0 - 2	980	29.9 U	29.9 U	29.9 U	420	956	57.8 I	50.3 I

					5-8 C Aliphatics	8-8 C Aliphatics	8-10 C Aliphatics	10-12 C Aliphatics	12-16 C Aliphatics	16-35 C Aliphatics	Total
					(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SCTL for Leachability Based on Groundwater Criteria					470	1300	7,000	51,000	*	*	
SCTL for Direct Exposure Residential					8,200	8,700	850	1,700	2,900	42,000	340
Soil Cleanup Target Level for Direct Exposure Commercial (mg/kg)					33,000	46,000	4,800	10,000	21,000	280,000	480
Boring No.	Date Collected	Depth to Water (ft)	Sample Interval (f/s)	Net OVA Reading (ppm)							
SB-15 @ 2'	5/31/2016	4	0 - 2	980	37.6 U	37.6 U	76.6 I	482	569	282	2900

**TABLE 3: GROUNDWATER ELEVATION TABLE (No FP)**

Facility Name: **Arlana Discount Be**  
 Address: **315 Ramsgate Rd**  
 City/State: **Auburndale, FL**

FDEP Facility ID#: **53/8623822**

All Measurements = Feet  
 No Data = Blank  
 Not Gauged = NG  
 Not Installed = NI

WELL NO.	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
DIAMETER (Inches)	2	2	2	2	2	2	2
WELL DEPTH	12.00	12.00	12.00	12.00	12.00	12.00	12.00
SCREEN INTERVAL	2 - 12	2 - 12	2 - 12	2 - 12	2 - 12	2 - 12	2 - 12
TOC ELEVATION	140.00	139.80	139.74	139.46	139.91	139.63	139.29

DATE	ELEV	DTW	DIFF.	ELEV	DTW	DIFF.	ELEV	DTW	DIFF.	ELEV	DTW	DIFF.	ELEV	DTW	DIFF.	ELEV	DTW	DIFF.	ELEV	DTW	DIFF.	
9/13/2001	135.19	4.81	-	135.21	4.59	-	136.72	3.02	-	135.29	4.17	-	-	-	-	-	-	-	-	-	-	-
2/15/2002	133.82	6.18	-1.37	133.79	6.01	-1.42	135.09	4.65	-1.63	133.84	5.62	-1.45	133.81	6.10	-	133.75	5.88	-	134.76	4.53	-	-
6/8/2016	DESTROYED			DESTROYED			DESTROYED			138.08	1.40	4.22	138.76	1.15	4.95	137.53	2.10	3.78	138.48	0.80	3.73	-

WELL NO.	DW-1	MW-8	MW-9	MW-10	MW-11	MW-1R
DIAMETER (Inches)	2	1	1	1	1	1
WELL DEPTH	25	12	12	12	12.00	12
SCREEN INTERVAL	20 - 25	2-12	2-12	2-12	2 - 12	2-12
TOC ELEVATION	139.59	139.67	139.81	139.67	139.91	139.70

DATE	ELEV	DTW	DIFF.	ELEV	DTW	DIFF.	ELEV	DTW	DIFF.	ELEV	DTW	DIFF.	ELEV	DTW	DIFF.	ELEV	DTW	DIFF.	ELEV	DTW	DIFF.	
2/15/2002	133.74	5.85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/8/2016	DESTROYED			137.58	2.09	-	136.29	1.52	-	137.92	1.75	-	138.13	1.78	-	137.55	2.15	-	-	-	-	-

Notes: \* Denotes well previously installed at the site



**TABLE 4A: GROUNDWATER ANALYTICAL SUMMARY**

Facility Name: Ariana Discount Beverage

FDEP Facility ID No. 53/8623822

Sample	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	Total Arsenic	Total Cadmium	Total Chromium	Total Lead	TRPH	
	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	
GCTLs	1**	40**	30**	20**	20	10**	5**	100**	15**	5000	
NADCs	100	400	300	200	200	100	50	1000	150	50000	
<b>Location</b>	<b>Date</b>										
MW-1	9/13/2001	1.0 U	1.0 U	1.0 U	3.0 U	1.0 U	NS	NS	NS	NS	520
MW-1R	6/8/2016	0.4 U	0.4 U	0.4 U	0.8 U	0.4 U	NS	NS	NS	NS	405
MW-2	9/13/2001	1.0 U	1.0 U	1.0 U	3.0 U	5.8	NS	NS	NS	NS	530 U
MW-3	9/13/2001	1.0 U	1.0 U	1.0 U	3.0 U	1.0 U	NS	NS	NS	NS	500 U
MW-4	9/13/2001	50	12	290	660	1.0 U	NS	NS	NS	NS	520
	6/8/2016	0.4 U	0.4 U	0.4 U	0.8 U	0.4 U	NS	NS	NS	NS	631
MW-5	2/15/2002	1.0 U	1.0 U	1.0 U	3.0 U	3.0 U	NS	NS	NS	NS	400 U
	6/8/2016	0.4 U	0.4 U	0.4 U	0.8 U	0.4 U	NS	NS	NS	NS	200 U
MW-6	2/15/2002	1.0 U	1.0 U	1.0 U	3.0 U	3.0 U	NS	NS	NS	NS	1172
	6/8/2016	0.4 U	0.4 U	0.4 U	0.8 U	0.4 U	NS	NS	NS	NS	542
MW-7	2/15/2002	1.0 U	1.0 U	1.0 U	3.0 U	3.0 U	NS	NS	NS	NS	3.0 U
	6/8/2016	0.4 U	0.4 U	0.4 U	0.8 U	0.4 U	NS	NS	NS	NS	200 U
MW-8	6/8/2016	0.4 U	0.4 U	0.97 I	0.8 U	0.4 U	NS	NS	NS	NS	1110
MW-9	6/8/2016	0.4 U	0.4 U	0.4 U	0.8 U	0.4 U	NS	NS	NS	NS	480
MW-10	6/8/2016	0.4 U	0.4 U	0.4 U	0.8 U	0.4 U	NS	NS	NS	NS	508
MW-11	6/8/2016	0.4 U	0.4 U	0.4 U	0.8 U	0.4 U	NS	NS	NS	NS	561
DW-1	2/15/2002	1.0 U	1.0 U	1.0 U	3.0 U	3.0 U	NS	NS	NS	NS	400 U

Notes: NS = Not Sampled.  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 U = Not Detected  
 I = Result > MDL but < PQL  
 D = Analyte reported from Dilution Analysis  
 GCTLs = Groundwater Cleanup Target Levels specified in Table I of Chapter 62-777, F.A.C.  
 NADCs = Natural Attenuation Default Source Concentrations specified in Table V of Chapter 62-777, F.A.C.  
 \*\* = As provided in Chapter 62-550, F.A.C.

**TABLE 4B : GROUNDWATER ANALYTICAL SUMMARY**

Facility Name: **Arlana Discount Beverage**

FDEP Facility ID No. **53/8623822**

Sample		Naphthalene	1-Methyl-naphthalene	2-Methyl-naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (g,h,i) perylene	Flouranthene	Flourene	Phenan-threne	Pyrene
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
<b>GCTLs</b>		<b>14</b>	<b>28</b>	<b>28</b>	<b>20</b>	<b>210</b>	<b>2100</b>	<b>210</b>	<b>280</b>	<b>280</b>	<b>210</b>	<b>210</b>
<b>NADCs</b>		<b>140</b>	<b>280</b>	<b>280</b>	<b>200</b>	<b>2100</b>	<b>21000</b>	<b>2100</b>	<b>2800</b>	<b>2800</b>	<b>2100</b>	<b>2100</b>
Location	Date											
MW-1	9/13/2001	0.21 U	0.21 U	0.21 U	0.22 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	6/8/2016	0.047 U	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.014 U	0.023 U	0.023 U	0.023 U	0.023 U
MW-2	9/13/2001	0.21 U	0.21 U	0.21 U	0.22 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	6/8/2016	0.20 U	0.20 U	0.20 U	0.21 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-3	9/13/2001	0.20 U	2	3	0.21 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	6/8/2016	0.05 I	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.854	0.869	0.023 U	0.142	0.688
MW-4	2/5/2002	20 U	20 U	20 U	20 U	20 U	5.0 U	1.0 U	2.0 U	20 U	5.0 U	2.0 U
	6/8/2016	0.047 U	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.014 U	0.023 U	0.023 U	0.023 U	0.023 U
MW-5	2/5/2002	20 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	20 U	5.0 U	2.0 U
	6/8/2016	0.047 U	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.014 U	0.023 U	0.023 U	0.023 U	0.023 U
MW-6	2/5/2002	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
	6/8/2016	0.047 U	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.019 I	0.023 U	0.023 U	0.023 U	0.023 U
MW-7	6/8/2016	25.1	8.53	9.32	0.07	0.023 U	0.023 U	0.014 U	0.023 U	0.048	0.023 U	0.023 U
	6/8/2016	0.047 U	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.014 U	0.023 U	0.023 U	0.023 U	0.023 U
MW-8	6/8/2016	0.047 U	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.014 U	0.023 U	0.023 U	0.023 U	0.023 U
	6/8/2016	0.047 U	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.014 U	0.023 U	0.023 U	0.023 U	0.023 U
MW-9	6/8/2016	0.047 U	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.014 U	0.023 U	0.023 U	0.023 U	0.023 U
	6/8/2016	0.047 U	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.014 U	0.023 U	0.023 U	0.023 U	0.023 U
MW-10	6/8/2016	0.047 U	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.014 U	0.023 U	0.023 U	0.023 U	0.023 U
	6/8/2016	0.047 U	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.014 U	0.023 U	0.023 U	0.023 U	0.023 U
MW-11	2/5/2002	20 U	20 U	20 U	20 U	20 U	5.0 U	1.0 U	2.0 U	20 U	5.0 U	2.0 U
	6/8/2016	0.047 U	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.014 U	0.023 U	0.023 U	0.023 U	0.023 U
DW-1	2/5/2002	20 U	20 U	20 U	20 U	20 U	5.0 U	1.0 U	2.0 U	20 U	5.0 U	2.0 U
	6/8/2016	0.047 U	0.047 U	0.047 U	0.023 U	0.023 U	0.023 U	0.014 U	0.023 U	0.023 U	0.023 U	0.023 U

Notes:

- NS = Not Sampled.
- MDL = Method Detection Limit
- PQL = Practical Quantitation Limit
- U = Not Detected
- I = Result > MDL but < PQL
- D = Analyte reported from Dilution Analysis
- GCTLs = Groundwater Cleanup Target Levels specified in Table I of Chapter 62-777, F.A.C.
- NADCs = Natural Attenuation Default Source Concentrations specified in Table V of Chapter 62-777, F.A.C.
- \*\* = As provided in Chapter 62-550, F.A.C.

**TABLE 4C : GROUNDWATER ANALYTICAL SUMMARY**

Facility Name: Ariana Discount Beverage

FDEP Facility ID No. 53/8623822

Sample		Benzo (a) pyrene	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Indeno (1,2,3-cd) pyrene
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
GCTLs		0.2	0.05	0.05	0.5	4.8	0.005	0.05
NADCs		20	5	5	50	480	0.5	5
Location	Date							
MW-1	9/13/2001	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U
MW-1R	6/8/2016	0.014 U	0.023 U	0.014 U	0.014 U	0.023 U	0.0048 U	0.014 U
MW-2	9/13/2001	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U
MW-3	9/13/2001	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
MW-4	9/13/2001	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
	6/8/2016	0.589	0.416	0.976	0.34	0.693	0.091	0.639
MW-5	2/5/2002	0.2 U	0.2 U	0.2 U	0.5 U	1.0 U	0.2 U	0.2 U
	6/8/2016	0.014 U	0.023 U	0.014 U	0.014 U	0.023 U	0.0048 U	0.014 U
MW-6	2/5/2002	0.2 U	0.2 U	0.2 U	0.5 U	1.0 U	0.2 U	0.2 U
	6/8/2016	0.014 U	0.023 U	0.014 U	0.014 U	0.023 U	0.0048 U	0.014 U
MW-7	2/5/2002	0.2 U	0.2 U	0.2 U	0.5 U	1.0 U	0.2 U	0.5 U
	6/8/2016	0.016 I	0.023 U	0.02 I	0.016 I	0.023 U	0.0051 I	0.017 I
MW-8	6/8/2016	0.014 U	0.023 U	0.014 U	0.014 U	0.023 U	0.0048 U	0.014 U
MW-9	6/8/2016	0.014 U	0.023 U	0.014 U	0.014 U	0.023 U	0.0048 U	0.014 U
MW-10	6/8/2016	0.014 U	0.023 U	0.014 U	0.014 U	0.023 U	0.0048 U	0.014 U
MW-11	6/8/2016	0.014 U	0.023 U	0.014 U	0.014 U	0.023 U	0.0048 U	0.014 U
DW-1	2/5/2002	0.2 U	0.2 U	0.2 U	0.5 U	1.0 U	0.2 U	0.2 U

Notes: NS = Not Sampled.  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 U = Not Detected  
 I = Result > MDL but < PQL  
 D = Analyte reported from Dilution Analysis  
 GCTLs = Groundwater Cleanup Target Levels specified in Table I of Chapter 62-777, F.A.C.  
 NADCs = Natural Attenuation Default Source Concentrations specified in Table V of Chapter 62-777, F.A.C.  
 \*\* = As provided in Chapter 62-550, F.A.C.

September 30, 2017

Ms. Michelle Allard, P.G.  
Senior Geologist  
Northstar Contracting Group, Inc.  
Petroleum Restoration Program, Section 5  
508-A Capital Circle, S.E., Tallahassee, FL 32301

**RE: LSSI Site Assessment Report Addendum**  
**Ariana Discount Beverage**  
315 Ramsgate Rd  
Auburndale, FL  
**Facility ID#: 53/8623822**  
**MAS Project #: L00036**

Dear Ms. Allard,

**MAS Environmental, LLC (MAS)** is pleased to provide this Low-Score Site Initiative (LSSI) Site Assessment Report (SAR) Addendum for the above mentioned site. A site plan is presented as **Figure 1**. This work was completed under FDEP LSSI Work Order #2017-95-W0338B. Herein are a summary of the field activities and an evaluation of the field and laboratory analytical results. The goal of these activities was to sample the groundwater at the site and delineate the soil impacts located around boring SB-14 that were initially identified in the LSSI Site Assessment Report (SAR), dated September 5, 2016 and the further delineated in the LSSI SAR Addendum dated March 23, 2017, prepared by MAS. The groundwater sampling and further soil assessment is the subject of this report.

## **SUMMARY OF FIELD ACTIVITIES**

### **Quality Assurance**

Field activities were conducted in general accordance with FDEP standard operating procedures and industry accepted practices. Soil assessment tasks were conducted in general accordance with the DEP-SOP, Guidance Memos, and Chapter 62-160 Florida Administrative Code (FAC). The groundwater sampling was performed in general accordance with FDEP standard operating procedure 01/001 FS – 2200.

### **Groundwater Sampling Activities**

On May 30, 2017, groundwater samples were collected from all onsite monitoring wells (MW-1R, and MW-4 through MW-11). Prior to sampling, the depth to water was measured in each well. Following sample collection, the groundwater samples were placed in dedicated containers on ice, and delivered to Jupiter Environmental Laboratories (JEL). The collected samples were analyzed for the presence of BTEX/MTBE using EPA Method 8260, PAHs using EPA Method 8270, and

TRPHs using State Method FL-PRO. The completed groundwater sampling logs are included in **Appendix A**.

### Soil Boring and Soil Sampling Activities

On June 12, 2017, MAS personnel advanced of one (1) delineation soil boring (SB-20) to a depth of two (2) ft below land surface (bls) using a core drill and a hand auger. The boring was located approximately ten (10) feet southwest of soil boring SB-14 at the location shown on **Figures 1**. No additional delineation borings could be placed further to the southwest of SB-20 due to the present of an existing UST. A soil sample was collected from the boring at a depth of 1 to 2 ft bls and screened using an Organic Vapor Analyzer (OVA). Following the soil screening activities, the following soil sample was collected:

Boring No.	Date Collected	Sample Depth (ft bls)	Net OVA Reading (ppm)
SB-20	6/12/2017	1 - 2	317

The soil sample was analyzed for the presence of polycyclic aromatic hydrocarbons (PAHs) using EPA Method 8310. A copy of the boring log is provided in **Appendix B**.

## SUMMARY OF RESULTS

### Groundwater Elevation

On May 30, 2017, the depth to groundwater ranged from 4.00 (MW-7) to 5.54 (MW-1R) feet below top of casing (ft btc). A summary of the groundwater elevation data is presented in **Table 1**. The direction of groundwater flow beneath the site on May 30, 2017 was observed to be towards the south as shown on **Figure 2**.

### Groundwater Analytical Results

The results of the groundwater analyses did not identified any target constituents in excess of their respective Groundwater Cleanup Target Levels (GCTLs) per Chapter 62-777, Florida Administrative Code (FAC) in the any of the groundwater samples collected, with the exception of benzo(b)fluoranthene, which was detected at a concentration of **0.065 µg/L**, slightly above the GCTL of **0.05 µg/L** in the sample from MW-4.

A summary of the groundwater analytical results is provided in **Tables 2A- 2C** and illustrated on **Figures 3A and 3B**. The laboratory analytical report is included as **Appendix C**.

### Soil Results

The OVA result for the soil sample from SB-20 at 1 to 2 ft bls was 317 parts per million (ppm). A summary of OVA data is included in **Table 3** and presented on **Figure 4A**.

The results of the soil analyses identified the presence of naphthalene, 1- and 2-methylnaphthanes in excess of the Leachability Soil Cleanup Target Levels (SCTLs) per Chapter 62-777, Florida Administrative Code (FAC) in the soil sample from SB-20 at 1 to 2 ft bls.

A summary of the analytical results is provided in **Tables 4A-4C** and presented on **Figure 4B**. The complete laboratory analytical report is included as **Appendix C**.

## CONCLUSIONS AND RECOMMENDATIONS

- The results of the groundwater analyses did not identified any target constituents in excess of their respective GCTLs per Chapter 62-777, FAC in the any of the groundwater samples collected, with the exception of benzo(b)fluoranthene, which was detected at a concentration of **0.065 µg/L**, slightly above the GCTL of **0.05 µg/L** in the sample from MW-4.
- The OVA result for the soil sample from SB-20 at 1 to 2 ft bls was 317 ppm.
- The results of the soil analyses identified the presence of naphthalene, 1- and 2-methylnaphthalenes in excess of the Leachability SCTLs per Chapter 62-777, FAC in the soil sample from SB-20 at 1 to 2 ft bls.

Based on the findings presented herein, no groundwater impacts were identified during this groundwater sampling event with the exception of slight benzo(b)fluoranthene impacts in MW-4. Additionally, the naphthalene impacts previously identified in monitoring well MW-8 appear to have naturally attenuated to below its GCTL and two consecutive quarters with no groundwater impacts have been confirmed for all of the other monitoring wells. Therefore, MAS recommends the continued monitoring of MW-4 and MW-8 for PAHs to achieve two (2) consecutive quarters with no impacts and to determine if the site could qualify for closure, once the soil impacts have been remediated.

The soil impacts have been delineated. However, due to the presence of the existing UST, refining the delineation of the soil plume to the southwest of SB-20 is not possible at this time. Furthermore, conducting an excavation to remediate the soil impacts to their known limits including the removal of the existing UST would likely exceed the allowable LSSI Remedial Action (RA) funding cap. Therefore, MAS recommends that the site be parked until additional funding is available unless it is determined that the cost of excavating the soil and the removal of the UST could be completed within the LSSI RA funding constraints.

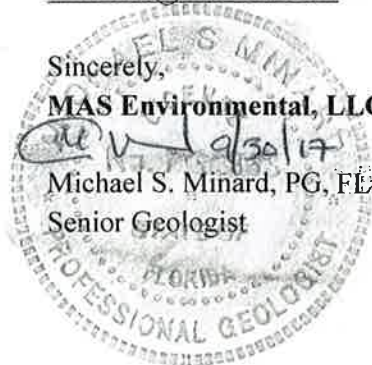
Please contact us directly should you have any questions at (813) 658-8823, or by email at [mminard@mas-env.com](mailto:mminard@mas-env.com) or [meichenholtz@mas-env.com](mailto:meichenholtz@mas-env.com).

Sincerely,

**MAS Environmental, LLC**

Michael S. Minard, PG, FL#2863

Senior Geologist



## **FIGURES & TABLES**

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