

TANK CLOSURE REPORT

for

ADRIAN SERVICE STATION
UT 0166

6900 S.W. 8 STREET
MIAMI, FLORIDA

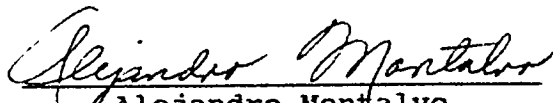
Submitted to the

DEPARTMENT OF ENVIRONMENTAL RESOURCES MANAGEMENT
(DERM)

by

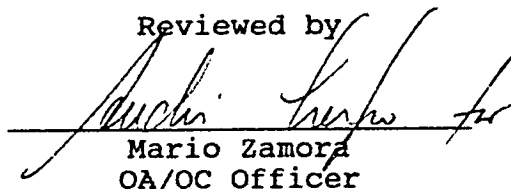
SERVICE STATION AID, ENVIRONMENTAL
(SSAE)

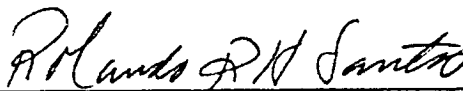
Written by



Alejandro Montalvo
Project Manager

Reviewed by


Mario Zamora
QA/QC Officer



Rolando R.H. Santos, P.E., D.E.E
Director, Environmental Department

AUGUST 7, 1991

2101910

The information and opinions rendered in this report are exclusively for the use by ADRIAN SERVICE STATION. SSA Environmental (SSAE) will not distribute this report without your consent as may be required by law or court order. The information and opinions expressed in this report are in response to our limited assignment. Therefore, should be evaluated and implemented only in light of that assignment. We accept responsibility for competent performance of our duties in executing the assignment and preparing this report in accordance with the normal standards of our profession. However, SSAE disclaims any responsibility for consequential damages.

TABLE OF CONTENTS

F-DER FORMS

Closure Assessment Form

FIGURES

(1) Site Sketch

APPENDIX

Appendix A

- DERM'S Approval letter
- Scope of work

Appendix B

- PID readings, from the walls of excavated pit and the stock piled excavated soil

Appendix C

- Ground water analytical results

Appendix D

- Chain of custody.

August 6, 1991

M. Amando Villanueva
Department of Environmental
Resource Management (DERM)
Storage Tank Section
111 N.W. 1 Street
Suite 1310
Miami, Florida 33128

RE: Tank closure report for the Adrian Service Station facility located at, near, or in the vicinity of 6900 S.W. 8 Street, Miami, Dade County, Florida.

Dear Mr. Villanueva:

SSA Environmental hereby submits this document in accordance with Rule 17-761 requiring a closure assessment at the time of removal of three (3) 550 gallons and two (2) 2,000 gallons Steel Underground Storage Tanks (UST).

Plans for UST removal were submitted by SSA Environmental (SSAE) to the Department of Environmental Resources Management (DERM) on May 21, 1991. The said plans were approved by DERM on May 31, 1991. Approval for re-lining of one (1) existing 2,000 gallons tank was also granted by DERM's Storage Tank Section. Refer to APPENDIX A for copies of the Storage Tank Excavation Permits. A copy of the Scope of Work proposed by SSAE for the legal removal and disposal of the UST's is also included in APPENDIX A.

On July 17, 1991 the UST's and surrounding soil were excavated. The extent of the excavation was determined by screening the excavation pit walls with a Photoionization Detector (PID), until organic vapor readings of less than 500 ppm for Gasoline and 50 ppm for Diesel fuel were detected or structural constraints impeded further excavation. The PID analysis is listed in APPENDIX C. During the excavation, the UST's were disposed of by N & M Trucking and transported to Sun-Metal at 13200 Cairo Ln., Opa Locka, Florida. Tank removal was done in accordance with FDER 17-761, 17-770, and API 1604.

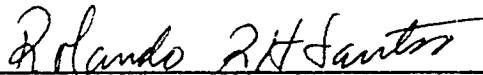
On July 29, 1991, the ground water samples were analyzed by a state certified laboratory (Engineers-Scientists Laboratory) via EPA methods 602 and 610. The results indicated that the ground water beneath the site is contaminated by members of the Gasoline groups in the vicinity of the underground storage tank. Refer to Appendix D for a copy of the analytical results.

We look forward to hearing from you regarding your response and if further evaluation is warranted on the site.

Should you have any questions or comments, please contact Alejandro Montalvo at (305)573-7420. Thank you.

Sincerely,

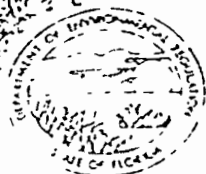
SSA ENVIRONMENTAL



Rolando R.H. Santos, F.E., D.E.E.
Director

RRHS/am
2101910

Enclosures



Florida Department of Environmental Regulation

De n Towers Office Bldg • 2600 Blair Stone Road • Tallahassee, Florida 32399 2400

DER Form #	17 751500(5)
Form #	Closure Assessment Form
Effective Date	December 10, 1990
DER Approval No.	17 751500(5)

Closure Assessment Form

Owners of storage tank systems that are replacing, removing or closing in place storage tanks shall use this form to demonstrate that a storage system closure assessment was performed in accordance with Rule 17 751 or 17 752, Florida Administrative Code. Eligible Early Detection Incentive (EDI) and Reimbursement Program sites do not have to perform a closure assessment.

Please Print or Type
Complete All Applicable Blanks

- Date AUGUST 6, 1991
- DER Facility ID Number: 138503663
- County: DADE COUNTY
- Facility Name: ADRIAN SERVICE STATION
- Facility Owner: JORGE AND JULIA UGAN
- Facility Address: 6900 S.W. 8 STREET
- Mailing Address: 11050 S.W. 143 RD. PL., MIAMI, FL. 33186
- Telephone Number: (305) 261-8116
- Facility Operator: JORGE UGAN
- Are the Storage Tank(s) (Circle one or both) A. Aboveground or (B) Underground
Type of Product(s) Stored: GASOLINE AND DIESEL FUEL, KEROSENE AND WASTE OIL.
- Were the Tank(s) (Circle one) A. Replaced (B) Removed C. Closed in Place D. Upgraded (aboveground tanks only)
- Number of Tanks Closed: FIVE (5) TANKS
THREE (3) 550 GAL. UST'S.
TWO (2) 2,000 GAL. UST'S.
- Age of Tanks: UNKNOWN

Facility Assessment Information

Yes No Not Applicable

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

- Is the facility participating in the Florida Petroleum Liability Insurance and Restoration Program (FPLIRP)?
- Was a Discharge Reporting Form submitted to the Department?
If yes, When: -- Where: --
- Is the depth to ground water less than 20 feet?
- Are monitoring wells present around the storage system?
If yes, specify type: ☒ Water monitoring ☐ Vapor monitoring
- Is there free product present in the monitoring wells or within the excavation?
- Were the petroleum hydrocarbon vapor levels in the soils greater than 500 parts per million for gasoline?
Specify sample type: ☐ Vapor Monitoring wells ☒ Soil sample(s)
- Were the petroleum hydrocarbon vapor levels in the soils greater than 50 parts per million for diesel/kerosene?
Specify sample type: ☐ Vapor Monitoring wells ☒ Soil sample(s)
- Were the analytical laboratory results of the ground water sample(s) greater than the allowable state target levels?
(See target levels on reverse side of this form and supply laboratory data sheets)
- If a used oil storage system did a visual inspection detect any discolored soil indicating a release?
- Are any potable wells located within 1/4 of a mile radius of the facility?
- Is there a surface water body within 1/4 mile radius of the site? If yes, indicate distance: --

DER Form #	17-761.900(5)
Form Title	Closure Assessment Form
Effective Date	December 10, 1990
DER Application No.	(Filing by DER)

12. A detailed drawing or sketch of the facility that includes the storage system location, monitoring wells, buildings, storm drains, sample locations, and dispenser locations must accompany this form.
13. If a facility has a pollutant storage tank system that has both gasoline and kerosene/diesel stored on site, both EPA Method 602 and EPA Method 610 must be performed on the ground water samples obtained.
14. Amount of soils removed and receipt of proper disposal.
15. If yes is answered to any one of questions 5-9, a Discharge Reporting Form 17-761.900(1) indicating a suspected release shall be submitted to the Department within one working day.
16. A copy of this form and any attachments must be submitted to the Department's district office in your area and to the locally administered program office under contract with the Department within 60 days of completion of tank removal or filling a tank with an inert material.

JORGE UGAN

Signature of Owner

Date

ROLANDO R. H. SANTOS

Signature of Person Performing Assessment

Date

DIRECTOR, SSA ENVIRONMENTAL (SSAE)

Title of Person Performing Assessment

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

State ground water target levels are as follows:

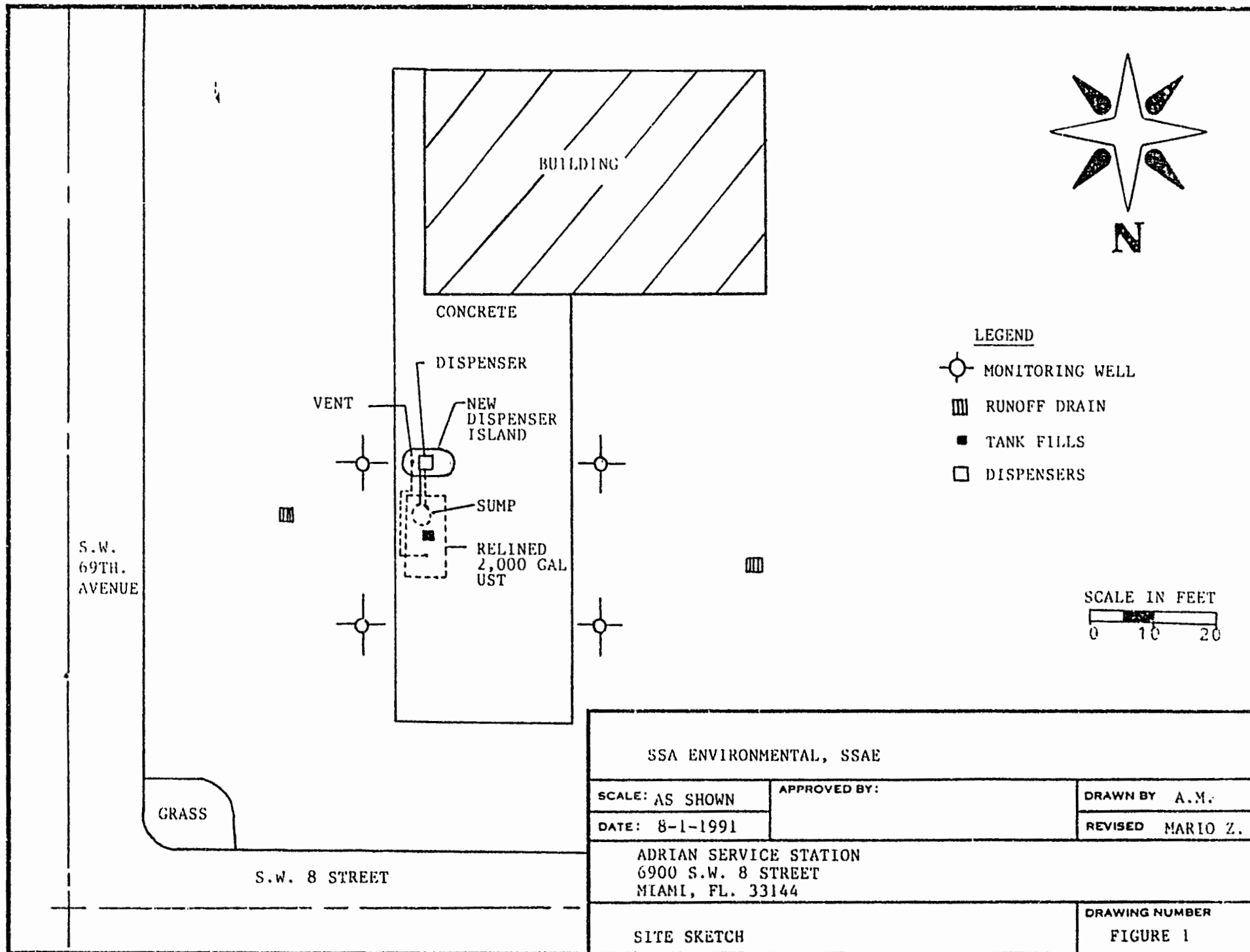
1. For gasoline (EPA Method 602):

- a. Benzene 1 ug/l
- b. Total VOA 50 ug/l
 - Benzene
 - Toluene
 - Total Xylenes
 - Ethylbenzene
- c. Methyl Tert-Butyl Ether (MTBE) 50 ug/l

2. For kerosene/diesel (EPA Method 610):

- a. Polynuclear Aromatic Hydrocarbons (PAHS)
(Best achievable detection limit, 10 ug/l maximum)

FIGURE



~~SECRET~~





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APPENDIX A



SCALE IN FEET
0 10 20

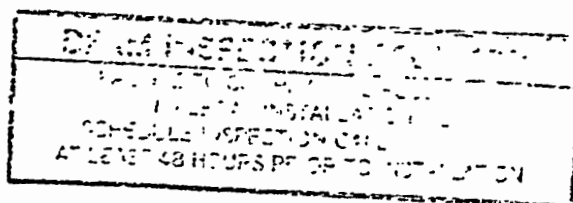
LEGEND

-  MONITOR WELL
-  RUNOFF DRAIN
-  TANK FILLS
-  DISPENSERS
- PRODUCT LINE (2" DOUBLE WALL FIBERGLASS)
- - - VENT LINE (2" SINGLE WALL FIBERGLASS)
- STAGE II LINE (2" DOUBLE WALL FIBERGLASS)

METROPOLITAN DADE COUNTY
POLLUTION CONTROL DIVISION
UNDERGROUND STORAGE FACILITIES

APPROVED *[Signature]*

DATE 5/31/91



METROPOLITAN DADE COUNTY
MECHANICAL DEPT. BLDG. & ZONING

APPROVED *[Signature]*

DATE 6-14-91

RECEIVED
MAY 21 1991

METRO - DADE COUNTY
POLLUTION CONTROL



SERVICE STATION AID INC

SCALE AS SHOWN

DATE 4/15/91

APPROVED BY:

[Signature]
Alan R. [Name]

DRAWN BY *[Signature]*

REVISED 5-21-91

ADRIAN SERVICE STATION
6900 SW 8 ST
MIAMI, FL

(UGAN)

PROPOSED SITE SKETCH

DRAWING NUMBER

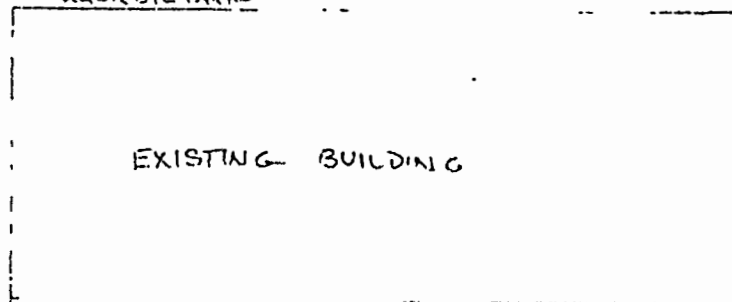
METROPOLITAN DADE COUNTY
WATER CONTROL DIVISION
WASTEWATER STORAGE FACILITIES

WELL GC
2/11/86

3-200 GAL

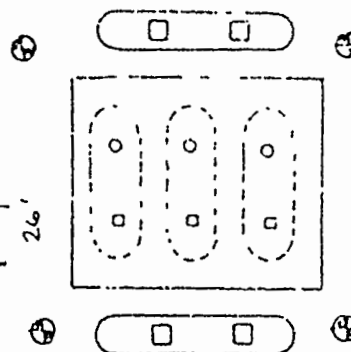


WASTE OIL TANKS



EXISTING BUILDING

25'



26'

DEPT. OF ENVIRONMENTAL
RESOURCES MANAGEMENT
METROPOLITAN DADE COUNTY
ENVIRONMENTAL
FACILITIES ONLY
APPROVED

BY PC 60488 p/GC

DATE FEB 14 1986

Handwritten:
Paid in full.
2/19/86
P. Hensley

1/LAYOUTS ARE APPROXIMATE.
DRILLER TO TAKE FULL
RESPONSIBILITY FOR UTILITY
AVOIDANCE AND EXACT
UNDER GROUND TANK PERIMETER
& LINE LOCATION

2/NO WORK TO PROCEED WITH
OUT DERM APPROVAL

3/PREPARED UNDER SUPERVISION
OF PHILLIP WATSON, P.E.

Handwritten signature:
Phillip Watson
1/22/86

DERM INSPECTION REQUIRED

FAILURE TO COMPLY WILL RESULT IN
AN ILLEGAL INSTALLATION. TO
SCHEDULE INSPECTION CALL 375-3323
AT LEAST 48 HOURS PRIOR TO INSTALLATION

CONSTRUCT (4) 2" PVC MONITORING WELLS

JOB NAME ADRIAN SERVICE STATION INC.

JOB LOCATION 6900 S.W. 8 ST.

MIAMI, FL 33144

261-8116

J.M. HENSLEY DRILLING, INC.

DATE 1-22-86

DWN. BY: J.M.H.

STATE LICENSE NO.

2489

DRILLER LICENSE NO.

40663

SW
69
AVE

GRASS

BUILDING

CONCRETE

DISPENSER

VENT

NEW
DISPENSER
ISLAND

SUMP

RELINED
2000 GAL
UST

SW 2 ST

EXISTING PORTION OF BUILDING SHALL
COMPLY WITH THE 1983 N.F.P.A. 30
CO. 101 L.P.G. 1983
N.F.P.A. 101 L.P.G. 1983

STO. TANKS & PIPING SYSTEM TO BE
INSTALLED IN ACCORDANCE
WITH N.F.P.A. 30.

METROPOLITAN DADE COUNTY
ENVIRONMENTAL RESOURCES MANAGEMENT
STORAGE TANK SECTION
111 N W 1 ST SUITE 1310
MIAMI FL 33129
375-5531

File # 2003

Date *5/31/91*

Reviewed by *Rev*

PROJECT NAME *Address Service Station*
ADDRESS *6900 SW 8th Street*
CONTRACTOR *SSA*

Phone *573-7126*

UT * *0166*

PC * *13545*

Approval is hereby granted to the underground storage facility(ies) as described below as meeting the Pollution Control requirements. However, this approval does not relieve the owner and/or contractor from their responsibilities of seeking approval from Building and Zoning, Fire Dept. and/or any other department that may be necessary prior to construction.

T A N K S	QUANTITY	CAPACITY	MAT'L OF CONSTRUCTION		CATHODIC PROTECTION
M O N I T O R	QUANTITY	STATUS	DIAMETER		C.A.L.D.S
PIPING	FIBERGLASS	STEEL	COPPER	OTHER	PROTECTION SYSTEM
PRODUCT	✓				
VENT	✓				
SEC. CONTA- INMENT	TANKS: <i>Re-lining.</i>				
	PIPING: <i>Double wall</i>				
PUMP SYSTEM	SUCTION:				
	SUBMERSIBLE: LINE LEAK DETECTOR:				
OTHER	<i>1) Approval for removal of three (3) 500 gallon and two (2) 2,000 gallon underground storage tanks to be disposed of by WOT Treatment Plant (1) contents to be removed and disposed of by P.E.</i> <i>2) Approval for re-lining of one (1) existing 2000 gallon tank</i> <i>3) Approval for step II water recovery piping</i> <i>4) Approval for overfill/overflow protection system</i> <i>5) Approval for proper disposal of tanks and tank (1) contents must be submitted to this Department within thirty (30) days of tank removal.</i> <i>Approval of owner's site inspection shall be obtained prior to installation of step II system and associated equipment.</i>				

PROVIDED:

1. Construction is completed according to approved plans.
2. Construction on this project must be commenced within one year of this approval, otherwise plans and specifications must be resubmitted for approval by this department.
3. The water supply for this building shall be in accordance with requirements of Dade County Health Department.
4. All water lines shall be located a minimum horizontal distance of 10 ft. from all septic tanks, drainfields, sewer lines, etc.
5. There may be county, municipal or other local regulations or restrictions to be complied with by the owner prior to construction of the facilities represented by these plans. We recommend that appropriate local agencies be consulted before starting construction.
The plumbing layout, sizes and slopes shall be approved by the Plumbing Department before installation.



SERVICE STATION AIR, INC.
Petroleum Equipment & Environmental Services

81 N.E. 21ST STREET
MIAMI, FLORIDA 33137
PHONE (305) 573-7420

SCOPE OF WORK

1. Remove and legally dispose of three (3) 550 gallon underground storage tank and two (2) 2000 gallon underground storage tanks and associated piping.
2. Tank disposal will be done by N&M Trucking to Sun metal at 3200 Cairo Ln, Opa Locka, Florida. Disposal documents will be provided to the contractor for further report to DERM.
3. Any sludge or liquid pollutants remaining in the tanks shall be legally disposed of by PMI, a duly licensed company.
4. Tank removal will be done in accordance with FDER 17-761, 17-770, and API 1604.
5. Contaminated soil from the site can be temporarily stored at the site following pertinent rules and regulations. Soil will be disposed of by a properly licensed contractor.
6. Re-line one (1) 2000 gallon underground storage tank. Work to be done by Williams Tank Service.
7. Install overfill/overspill protection on 2000 gallon tank.
8. Install 2" double wall fiberglass product and vent lines.
9. Install underground lines for Stage II vapor recovery system, to be stubbed up underneath dispenser for future use.

STO. TANKS & PIPING SYSTEM TO BE
INSTALLED IN ACCORDANCE
WITH N.E.P.A. 30

EXISTING FORTH SCOR BUILDING SHALL
BE RE-PAINTED AND RE-SEALING
COMPLETED BY 1-1-1985

Serving South Florida since 1959.

APPENDIX B

81 NE 21st Street
Miami, Florida 33137
(305) 573-7420

SSA Environmental

SOIL SAMPLING DATA

NUMBER 3

DATE 7/18	JOB NUMBER 201910	LOCATION 6900 S.W. 8 Street	JOB NAME Arian Env Station
PROJECT MANAGER L. 7/12	FIELD PERSONNEL Aler Montalvo	TITLE Env Technician	
BOARD NUMBER N/A	DRAWER N/A		

Gas #1		7/17
FROM		P.I.D. READINGS
Northwest	NW	56.6 ppm ✓
Northeast	NE	57.8 ppm ✓
Southeast	SE	292 ppm ✓
Southwest	SW	4150 ppm x

Diesel		7/17
FROM		P.I.D. READINGS
North	N	3.5 ppm ✓
South	S	0.5 ppm ✓

South (S) → Gas #2		7/17
FROM		P.I.D. READINGS
Southwest	Composite (S.N)	2100 ppm x

South (S) → Gas #3		7/18
FROM		P.I.D. READINGS
Corner	S E	3300 ppm x
Middle	S	21.4 ppm ✓
Corner	S W	282 ppm ✓

South (S) → Gas #4		7/18
FROM		P.I.D. READINGS
Corner	S.E.	4200 ppm x
Middle	S.	30.8 ppm ✓
Corner	S W	12.6 ppm ✓

South (S) → Gas #5		7/18
FROM		P.I.D. READINGS
Southeast Corner	S.E. Composite	2200 ppm x

South (S) → Gas #6		7/18
FROM		P.I.D. READINGS
Southeast Corner	S.E. Composite	815 ppm x

South (S) → Gas #7		7/18
FROM		P.I.D. READINGS
Southeast Corner	S.E. Composite	156 ppm ✓

* South wall of excavation pit was contaminated. Excavation was continued until PID readings under 500 ppm were obtained.

S - South
S.E. - Southeast
S.W. - Southwest

APPENDIX C

engineers-scientists
LABORATORY

11960 S W 144 STREET, MIAMI, FL 33156
(305) 233 1411 ■ FAX (305) 235-6214

August 2, 1991

Mr. Mario Zamora
SSA Environmental
81 N.E. 21 Street
Miami, FL 33139

Re: SSA Project No: 2101910
ESL Project No: 9129TA
Invoice No: 1803
P.O. No: 3095-2101910
Terms: Net 20 Days

Dear Mr. Zamora:

This invoice is submitted for laboratory services as detailed below:

Parameter	Quantity	Unit Cost	Extended Cost
EPA 602	1	\$79.00	\$79.00
EPA 610	1	\$134.00	\$134.00

TOTAL AMOUNT DUE THIS INVOICE

\$213.00

=====

RESULTS OF LABORATORY ANALYSES

Client: SSA Environmental

Client Project No: 2101910 ESL Project No: 9129TA
Client Sample No: Exc Pit 1 ESL Sample No: 7434

Sample Date: Unknown
Sample Location: Adrian Service Station Date Received: 7/17/91
Time Received:
Collected By: Wilfred Chin Analysis Date(s): 7/29/91
Sample Matrix: Water Report Date: 7/30/91

PARAMETER	RESULTS	UNITS	DETECTION LIMIT
EPA METHOD 602			
Methyl-t-butyl ether (MTBE)	1900	ug/l	400 (a)
Benzene	550	ug/l	100 (a)
Toluene	1600	ug/l	100 (a)
Ethylbenzene	2500	ug/l	100 (a)
p-Xylene	2400	ug/l	100 (a)
Chlcrobenzene/m-Xylene *	6100	ug/l	100 (a)
o-Xylene	1600	ug/l	100 (a)
1,4-Dichlorobenzene	BDL	ug/l	100 (a)
1,3-Dichlorobenzene	660	ug/l	100 (a)
1,2-Dichlorobenzene	180	ug/l	100 (a)

Comments:

BDL: Below Detection Limits

* Compounds co-elute at the same retention time

(a) Dilution of 1:100

Adriana Perez

Adriana Perez
Laboratory Supervisor

engineers-scientists LABORATORY

11960 S W 144 STREET, MIAMI, FL 33186
(305) 233-1411 • FAX (305) 235-6214

RESULTS OF LABORATORY ANALYSES

Client: SSA Environmental

Client Project No: 2101910 ESL Project No: 9129TA
Client Sample No: Exc Pit 2 ESL Sample No: 7435

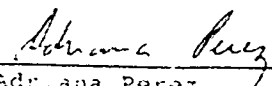
Sample Date: Unknown
Sample Location: Adrian Service Station Date Received: 7-17-91
Time Received:
Collected By: Wilfred Chin Analysis Date(s): 7-29-91
Sample Matrix: Water Report Date: 7-30-91

PARAMETER	RESULTS	UNITS	DETECTION LIMIT
EPA METHOD 610			
Naphthalene	BDL	ug/l	2
2-methylnaphthlene	BDL	ug/l	2
1-methylnaphthlene	BDL	ug/l	2
Acenaphthalene	BDL	ug/l	2
Acenaphthene	BDL	ug/l	2
Fluorene	BDL	ug/l	2
Phenanthrene	BDL	ug/l	2
Anthracene	BDL	ug/l	2
Fluoranthene	BDL	ug/l	2
Pyrene	BDL	ug/l	2
Benzo(a)anthracene	BDL	ug/l	2
Chrysene	BDL	ug/l	2
Benzo(b)fluoranthene/			
Benzo(k)fluoranthene *	BDL	ug/l	4
Benzo(a)pyrene	BDL	ug/l	2
Dibenzo(a,h)anthracene/			
Indeno(1,2,3-cd)pyrene *	BDL	ug/l	4
Benzo(g,h,i)perylene	BDL	ug/l	2

Comments:

BDL: Below Detection Limits

* Compounds co-elute at the same retention time


Adriana Perez
Laboratory Supervisor

APPENDIX D

81 N E. 21 Street
Miami, Florida 33137
In Dade: 573-7420
In Broward: 524-5232

PO# 3095 - 2102910

Nº 2119

[illegible]

TABLE 1

Monitor Well No.	Date Sampled	Benzene ug/l	Toluene ug/l	Ethyl Benzene ug/l	Total Xylenes ug/l	Total VOA ug/l	MTBE ug/l	FDB ug/l	Lead mg/l
MW-1	12/17/92	BDL	530 0	1,720 0	9,470 0	11,720 0	BDL	BDL	0 022
MW-2	12/17/92	7 0	13 0	215 0	661 0	896 0	BDL	BDL	0 008
MW-3	12/17/92	728 0	15 0	91 0	BDL	834 0	895 0	BDL	0 007
MW-4	12/17/92	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MW-5	12/17/92	1 7	BDL	1 1	BDL	2 8	BDL	BDL	BDL
MW-6	12/17/92	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MW-7	12/17/92	BDL	3,100 0	1,900 0	10,800 0	15,800 0	BDL	BDL	0 017
MW-8	12/17/92	129 0	6 0	13 0	37 0	185 0	275 0	BDL	BDL
DW-1	12/17/92	0 9	2 8	6 1	78 1	87 9	21 5	BDL	BDL

ug/l = Micrograms/Liter

mg/l = Milligrams/Liter

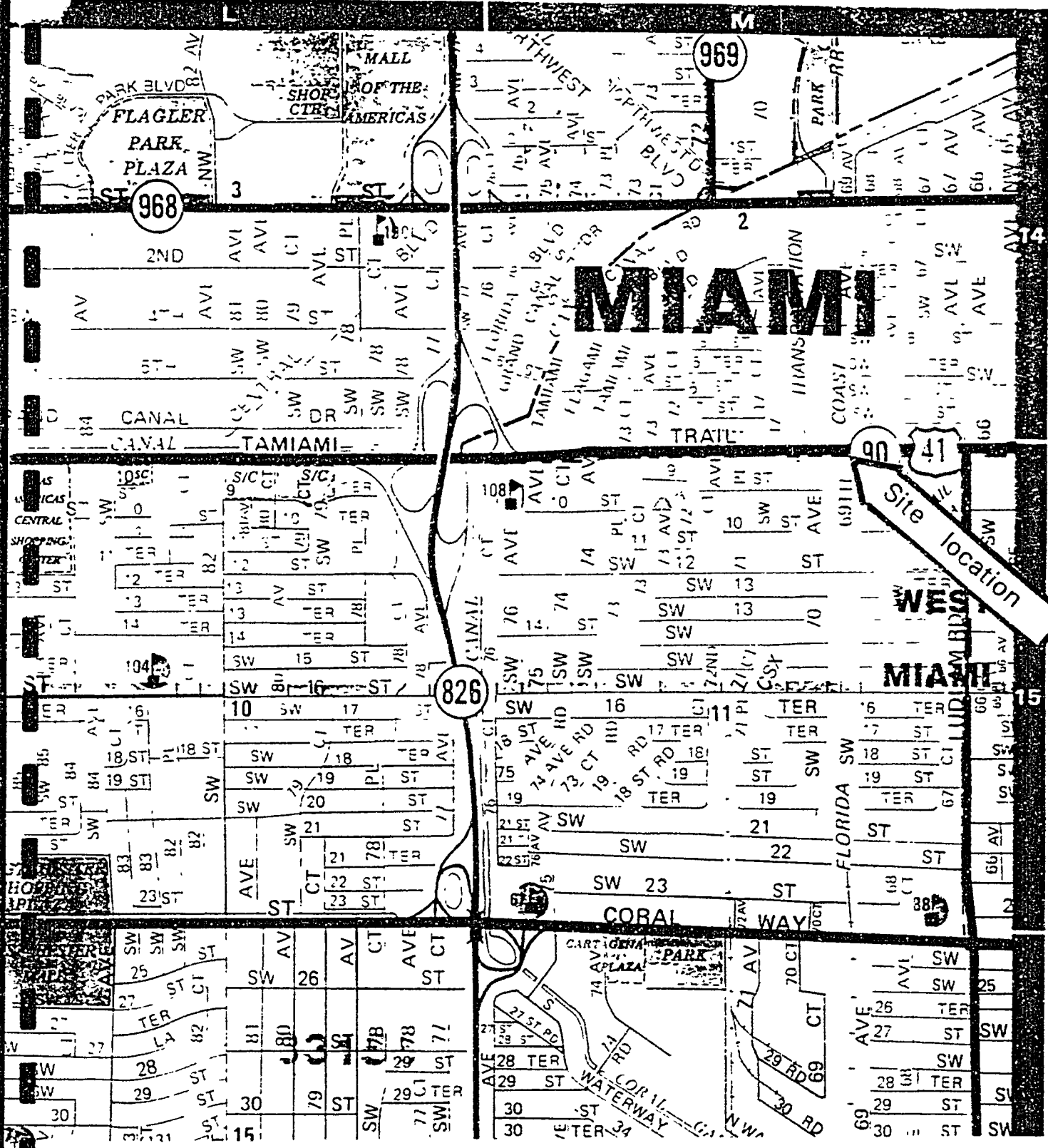
BDL = Below Detection Limit

TABLE 2

Soil Boring No	Date of Sample	Sample Number	Depth of Sample (ft)	OVA Readings (ppm)
SB-5	12/9/92	1	0' - 2'	0
		2	2' - 4'	0
		3	4' - 6'	0
SB-6	12/9/92	1	0' - 2'	0
		2	2' - 4'	0
		3	4' - 6'	0
SB-7	12/9/92	1	0' - 2'	0
		2	2' - 4'	0
		3	4' - 6'	0
SB-8	12/9/92	1	0' - 2'	0
		2	2' - 4'	0
		3	4' - 6'	0
SB-9	12/9/92	1	0' - 2'	0
		2	2' - 4'	0
		3	4' - 6'	0
SB-10	12/9/92	1	0' - 2'	
		2	2' - 4'	0
		3	4' - 6'	0
SB-11	12/9/92	1	0' - 2'	0
		2	2' - 4'	0
		3	4' - 6'	1

TABLE 3

MONITORING WELL NO.	DATE OF READING	ELEVATION OF MONITORING WELL	DEPTH TO WATER	DEPTH OF GROUNDWATER
MW-1	12/17/92	10 28	6 15	4 13
MW-2	12/17/92	10 52	6 28	4 24
MW-3	12/17/92	10 13	6 36	3 77
MW-4	12/17/92	8 88	6 02	2 86
MW-5	12/17/92	9 90	6 66	3 24
MW-6	12/17/92	10 75	5 86	4 89
MW-7	12/17/92	9 21	6 08	3 13
MW-8	12/17/92	9 50		

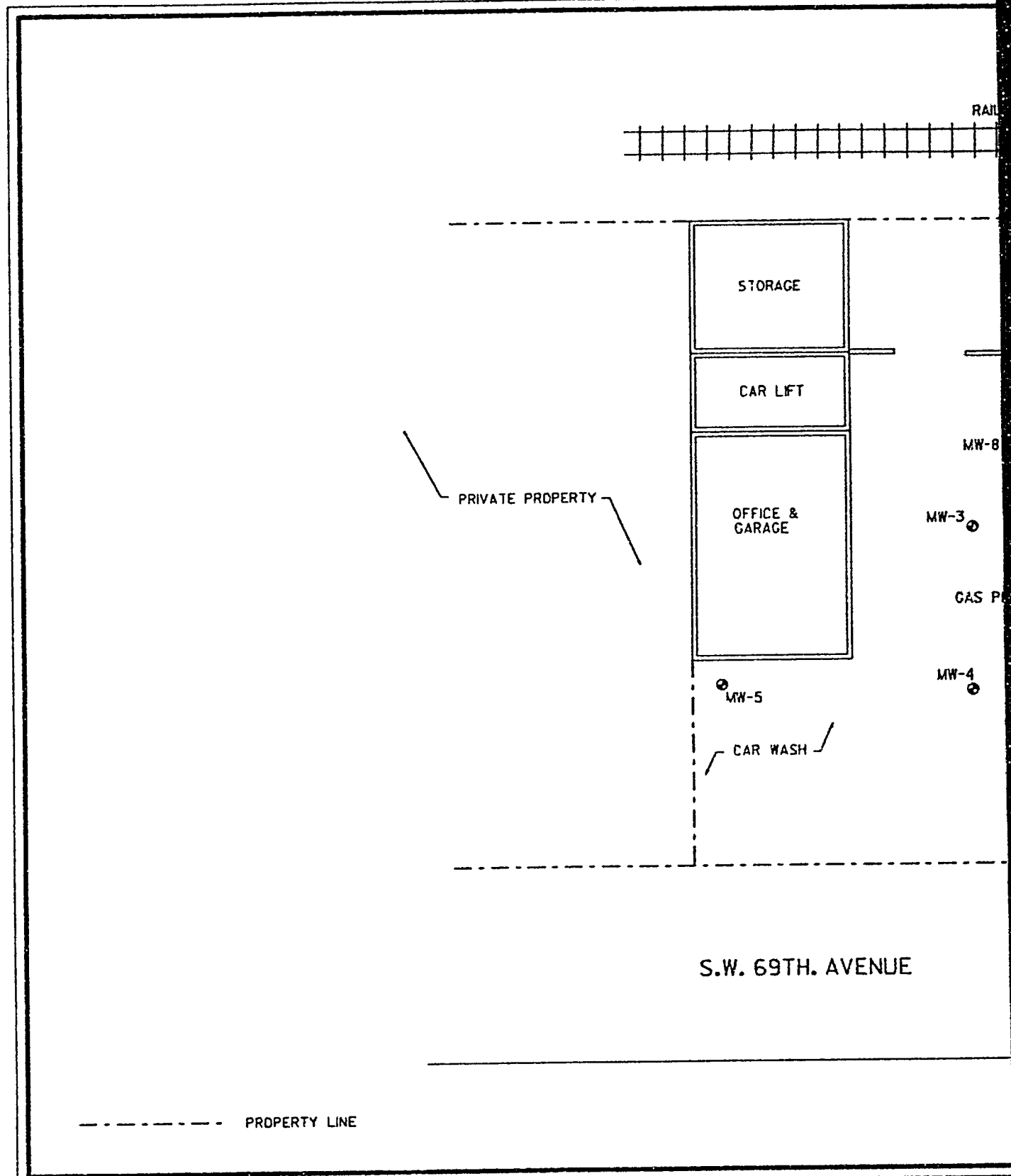


SEE MAP NO. 57

PETRO HYDRO, INC.
 7355 N.W. 41ST. STREET
 MIAMI, FLORIDA 33316

SITE VICINITY MAP
 ADRIAN SERVICE STATION
 6900 S.W. 8TH. STREET
 MIAMI, DADE COUNTY FLORIDA

FIGURE
 1



PETRO HYDRO, INC.

7355 N.W. 41ST. STREET
MIAMI, FLORIDA 33306

ADRIAN SERVICE STATION
6900 S.W. 8TH. STREET
MIAMI, DADE COUNTY FLORIDA

ROAD TRACKS

SCALE: 1" = 30'-0"

GUARDRAIL

STORM SEWER

MW-1

MW-7

JUMP

2' DIA.
STORM SEWER

MW-2

DW-1

MW-6

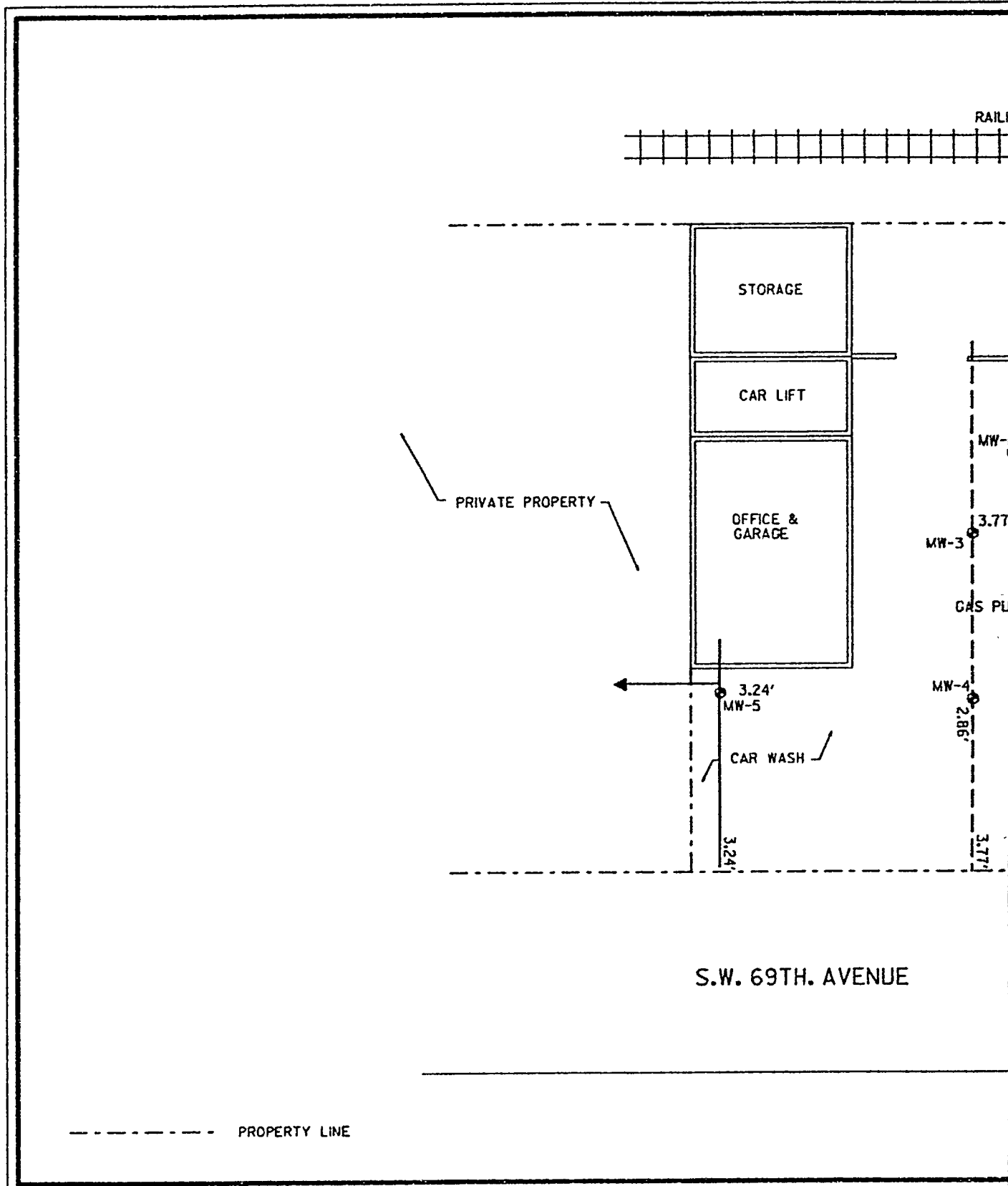
S.W. 8TH. STREET

ON
ET
RIDA

SITE MAP-LOCATION OF MONITOR WELLS

FIGURE

2



PETRO HYDRO, INC.

7355 N.W. 41ST. STREET
MIAMI, FLORIDA 33305

ADRIAN SERVICE STATION
6900 S.W. 8TH. STREET
MIAMI, DADE COUNTY FLORIDA

ROAD TRACKS

SCALE: 1" = 30'-0"

GUARDRAIL

STORM SEWER

MW-1 4.13'

MW-7 3.13'

MP

2' DIA
STORM SEWER

MW-2 4.24'

DW-1

MW-6 4.89'

4.13'

S.W. 8TH. STREET

← APPARENT DIRECTION OF
GROUNDWATER FLOW.

HYDRAULIC GRADIENT=0.0104(FT/FT)

ON
ET
ORIDA

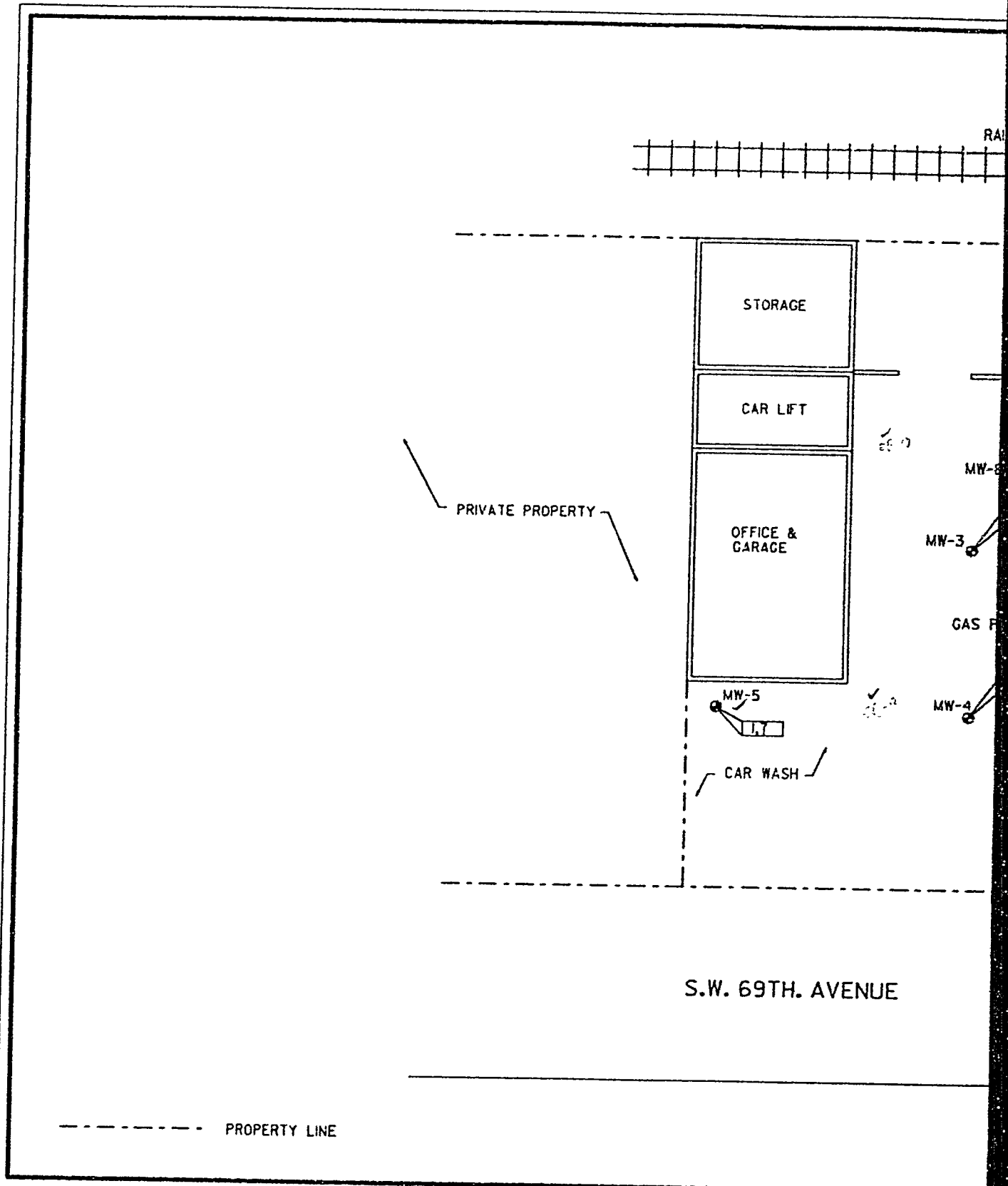
GROUNDWATER ELEVATIONS

FIGURE

3

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11042

01/25/93



PETRO HYDRO, INC.
7355 N.W. 41ST. STREET
MIAMI, FLORIDA 33366

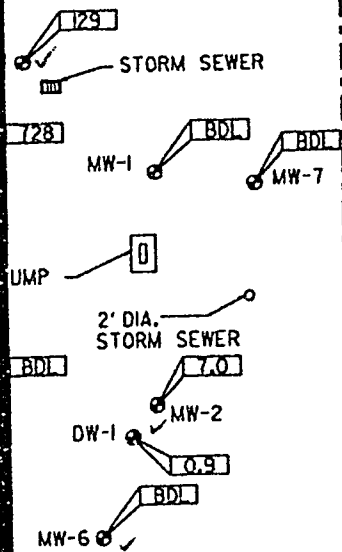
ADRIAN SERVICE STATION
6900 S.W. 8TH. STREET
MIAMI, DADE COUNTY FL

ROAD TRACKS

SCALE: 1" = 30'-0"

GUARDRAIL

S.W. 8TH. STREET



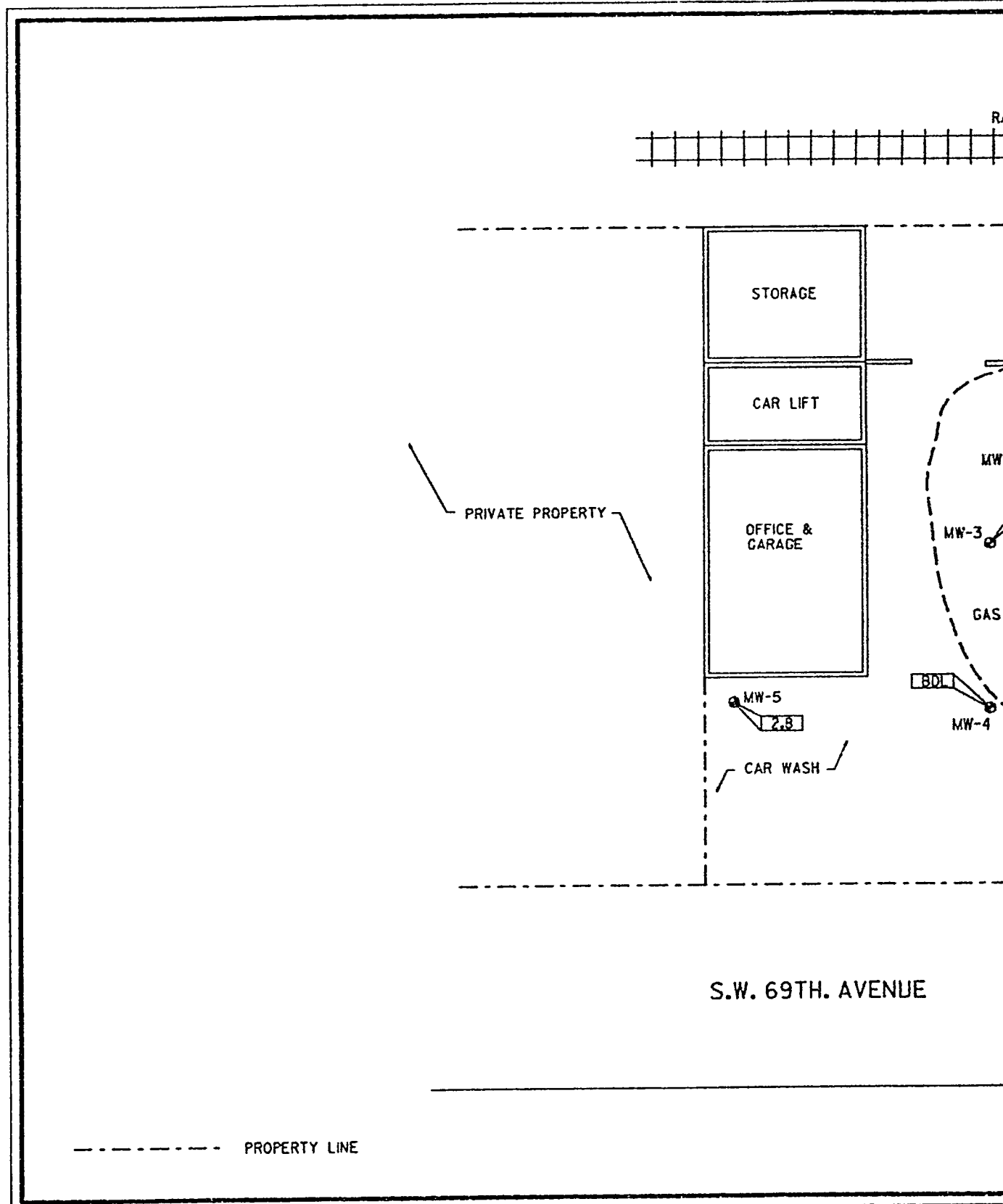
BENZENE DISTRIBUTION MAP

FIGURE

4

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01/25/93



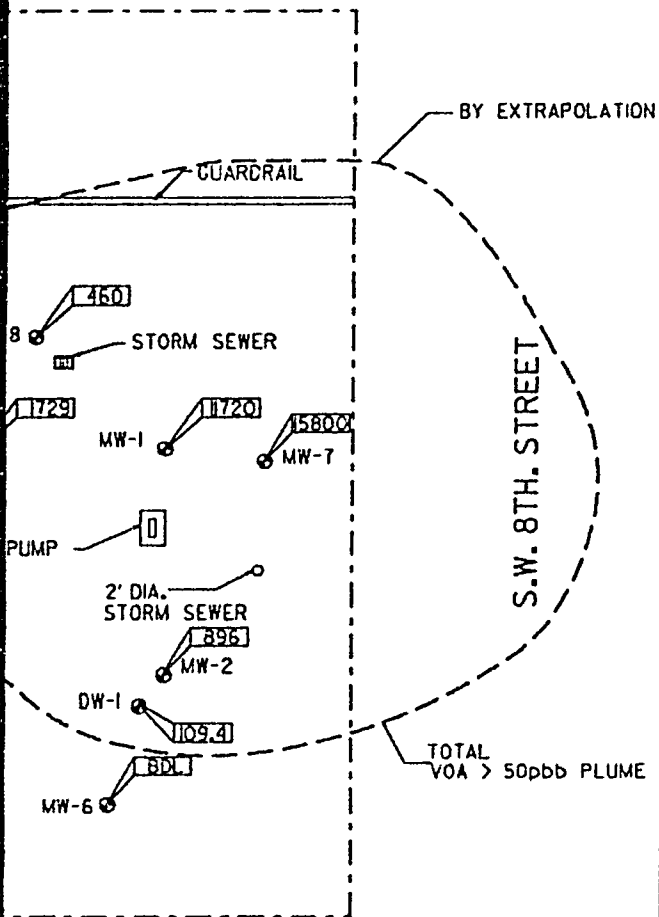
PETRO HYDRO, INC.

7355 N.W. 41ST. STREET
MIAMI, FLORIDA 33306

ADRIAN SERVICE STAT
6900 S.W. 8TH. STR
MIAMI, DADE COUNTY FL

RAILROAD TRACKS

SCALE: 1" = 30'-0"

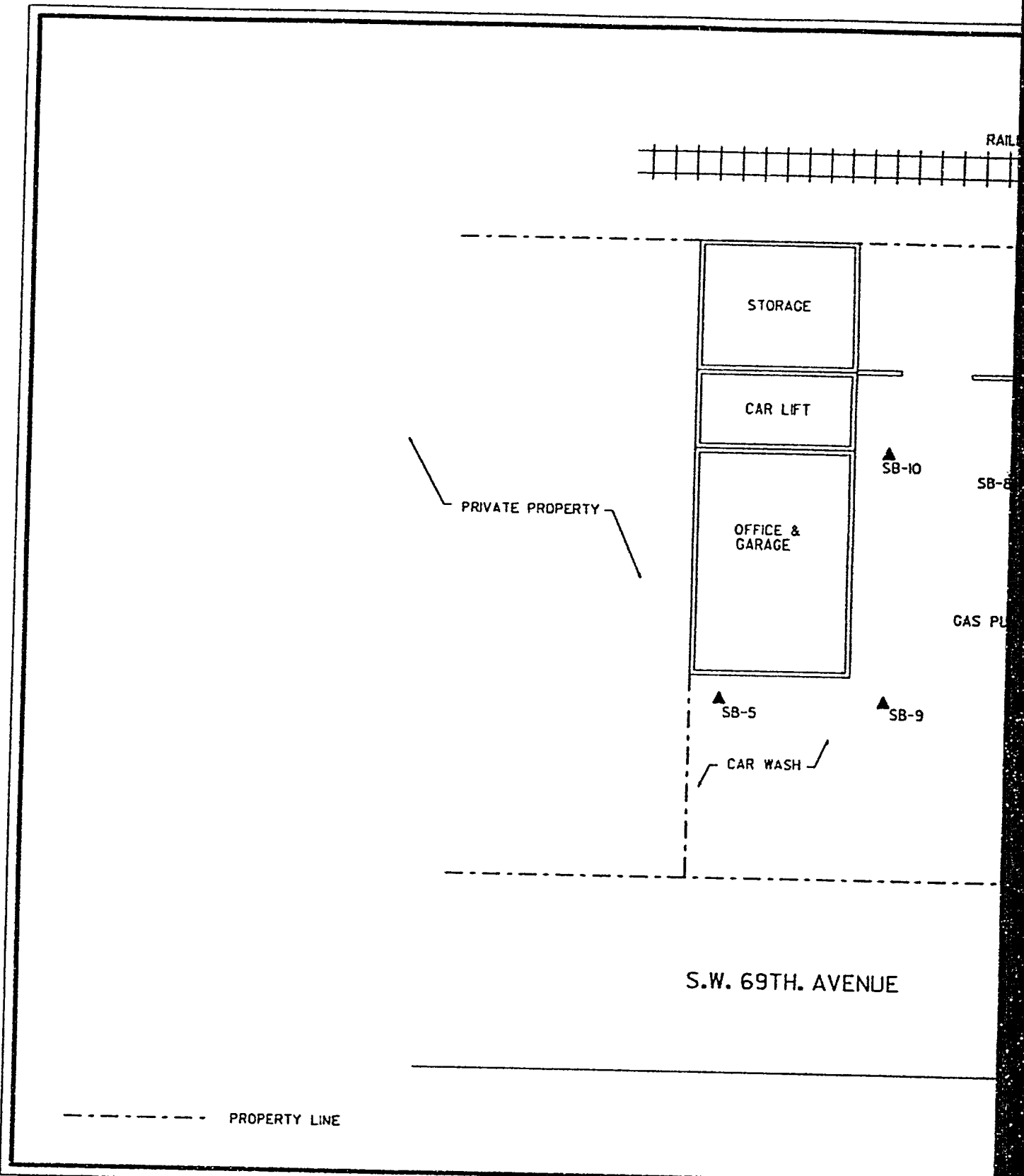


ION
EET
ORIDA

TOTAL VOA PLUME

FIGURE

5



PETRO HYDRO, INC.
7355 N.W. 41ST. STREET
MIAMI, FLORIDA 33346

ADRIAN SERVICE STATION
6900 S.W. 8TH. STREET
MIAMI, DADE COUNTY FLORIDA

ROAD TRACKS

SCALE: 1" = 30'-0"

GUARDRAIL

STORM SEWER

▲ SB-7

S.W. 8TH. STREET

MP

2' DIA.
STORM SEWER

SB-6 ▲

▲ = SOIL BORING

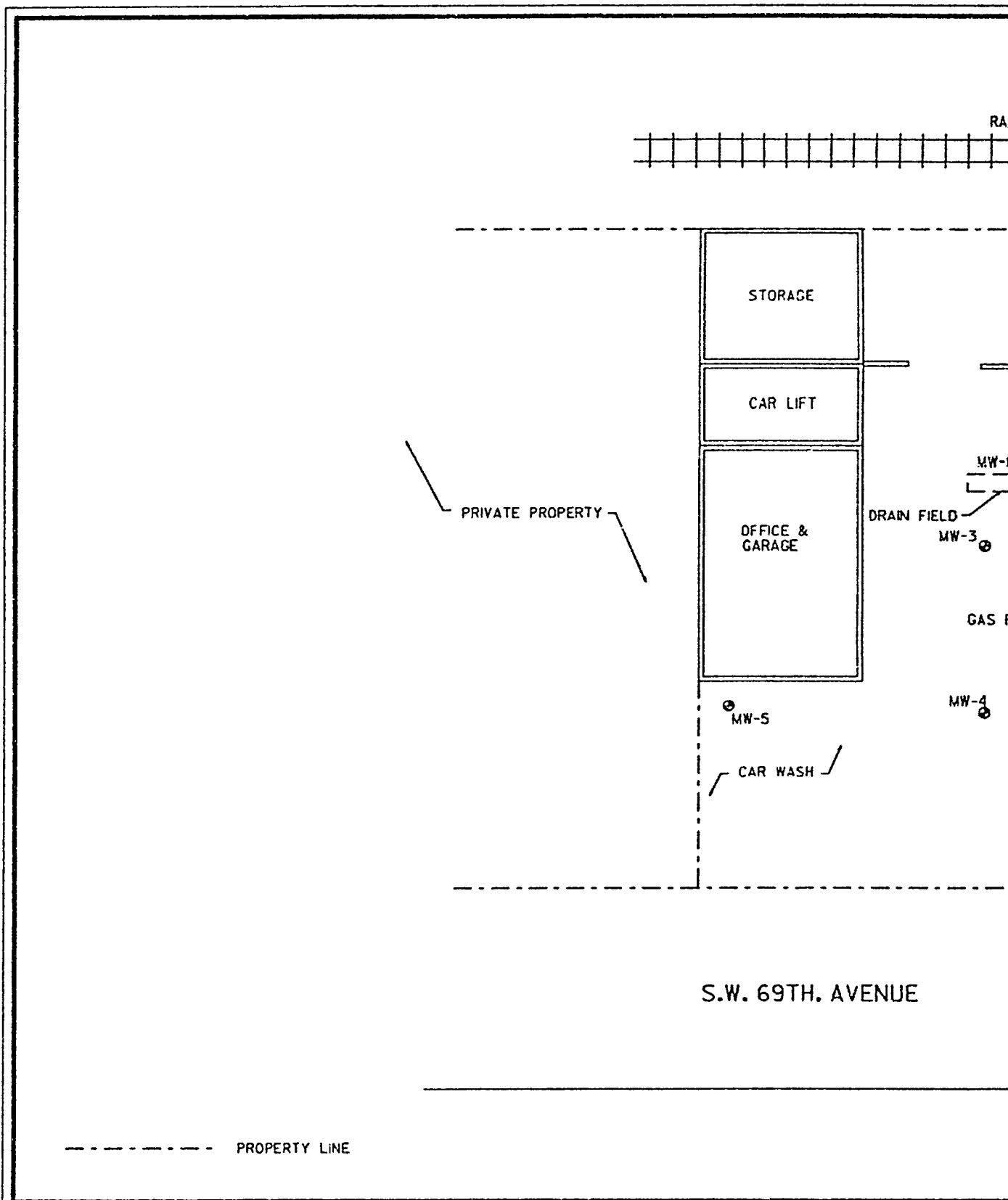
MAP OF SOIL BORINGS

FIGURE

6

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11042

01/25/93



PETRO HYDRO, INC.

7355 N.W. 41ST. STREET
MIAMI, FLORIDA 3336

ADRIAN SERVICE STATION
6900 S.W. 8TH. STREET
MIAMI, DADE COUNTY FLORIDA

ROAD TRACKS

SCALE: 1" = 30'-0"

GUARDRAIL

STORM SEWER

MW-1

MW-7

LMP

2' DIA.
STORM SEWER

MW-2

DW-1

MW-6

UNDERGROUND SEWER LINES

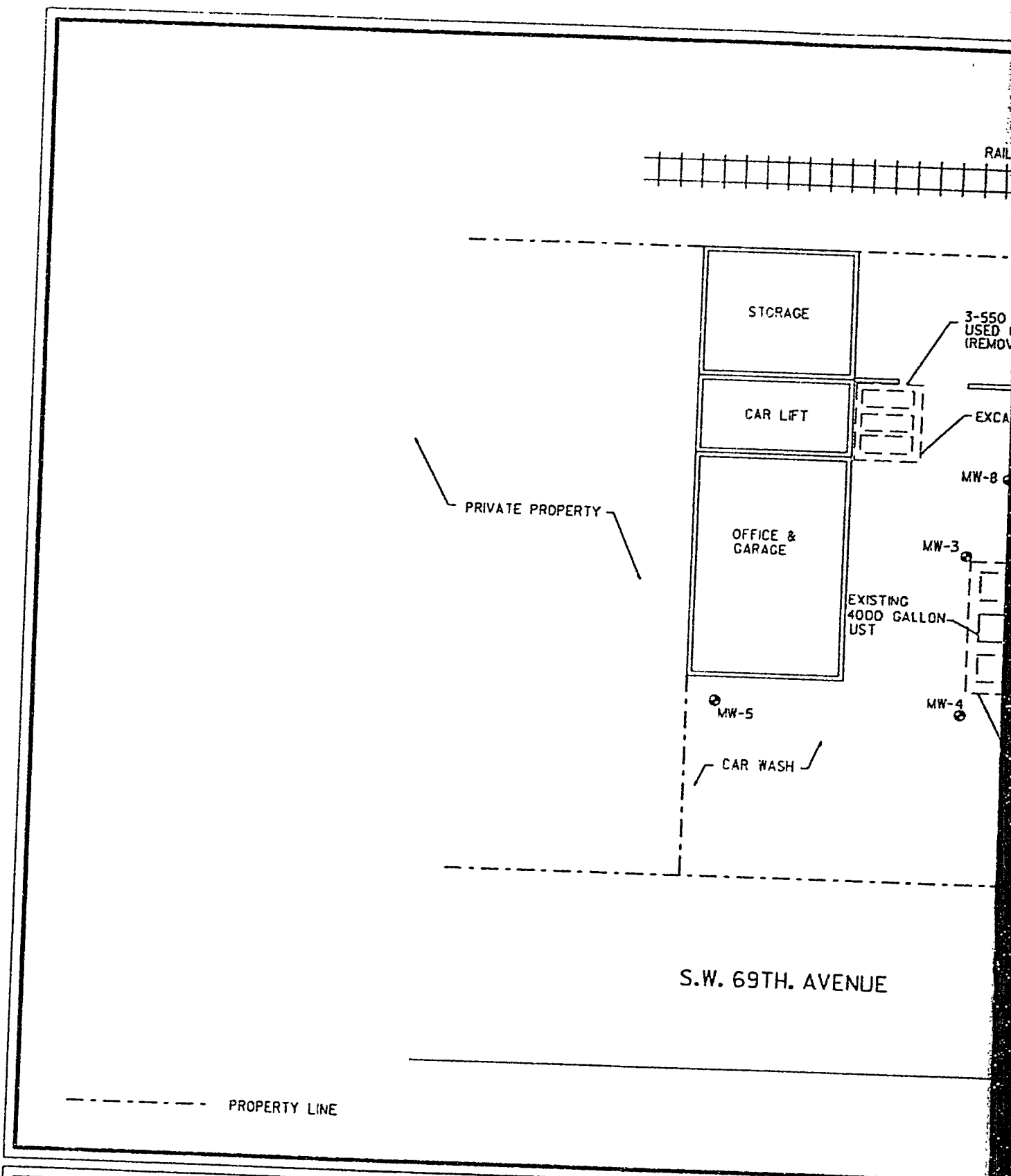
S.W. 8TH. STREET

ON
ET
ORIDA

LOCATION OF UNDERGROUND UTILITIES

FIGURE

7



PETRO HYDRO, INC.

7355 N.W. 41ST. STREET
MIAMI, FLORIDA 33316

ADRIAN SERVICE STATION
6900 S.W. 8TH. STREET
MIAMI, DADE COUNTY FLORIDA

ROAD TRACKS

SCALE: 1" = 30'-0"

4000 GALLON
UST
(REMOVED)

GUARDRAIL

EXCAVATION No. 2

STORM SEWER

4000 GALLON
USTs-2ea.
REMOVED

MW-1

MW-7

GAS PUMP

PIPING

2' DIA.
STORM SEWER

MW-2

DW-1

EXCAVATION No. 1

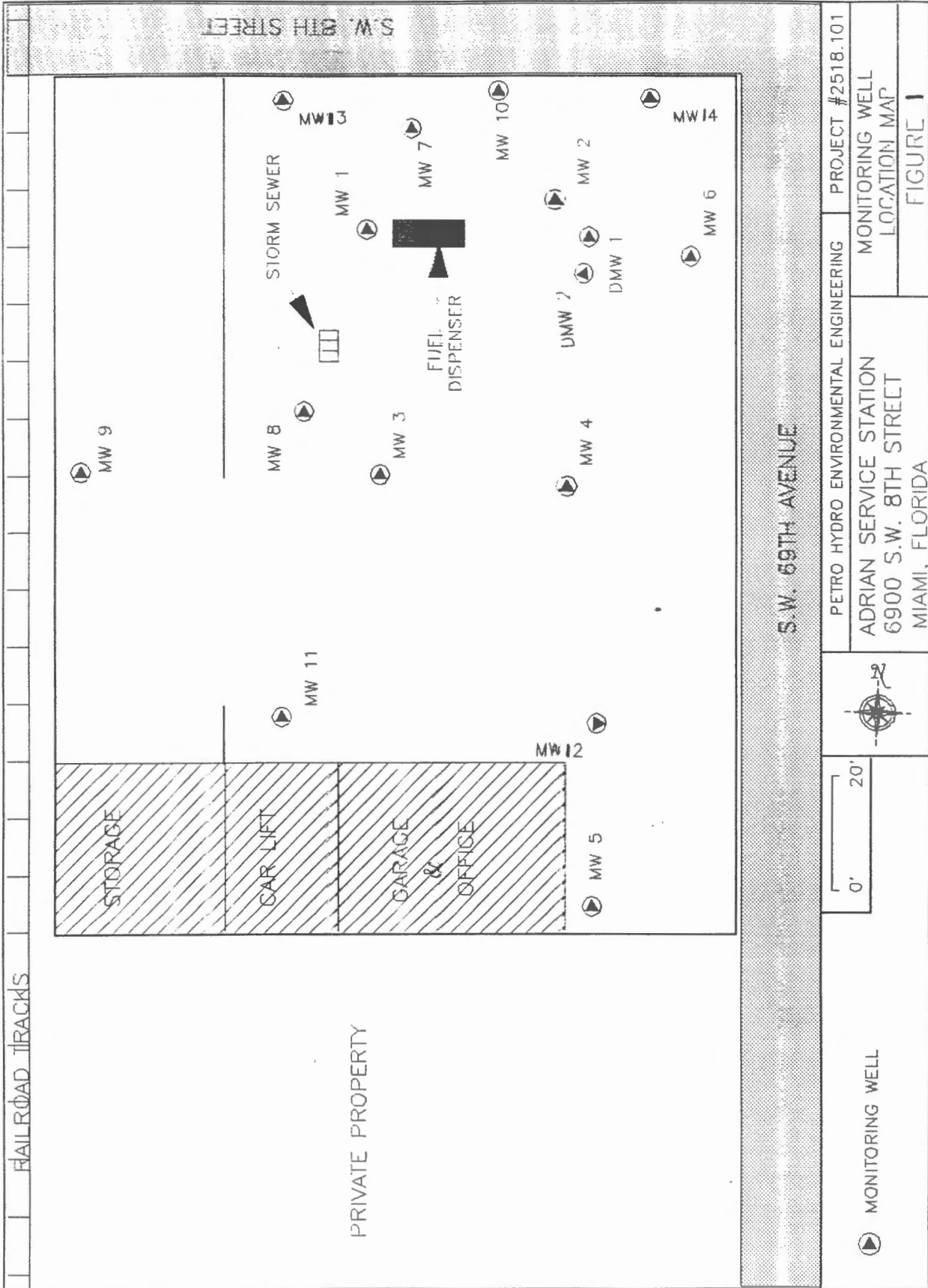
MW-8

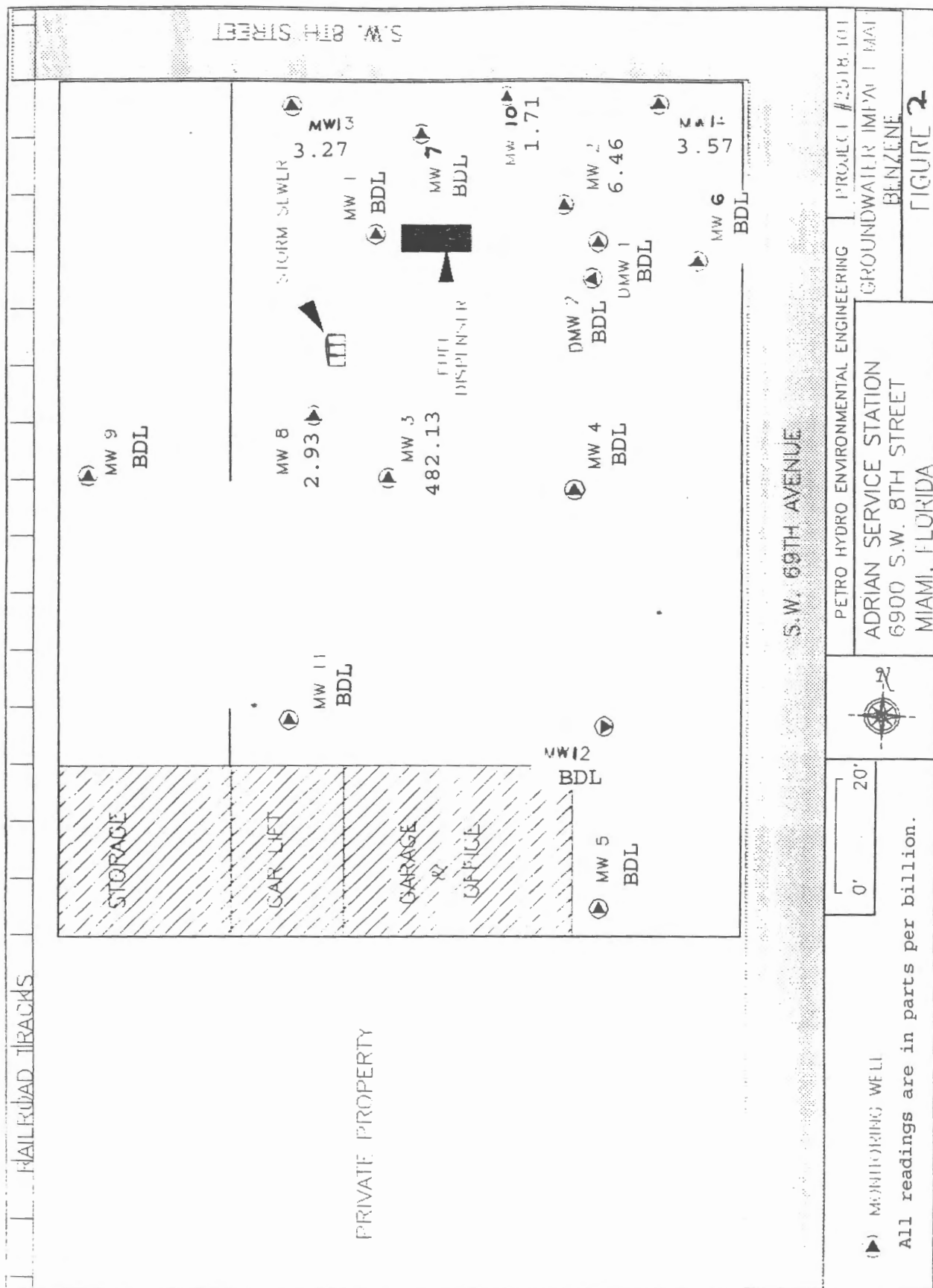
S.W. 8TH. STREET

SITE MAP-LOCATION OF UST & PIPING

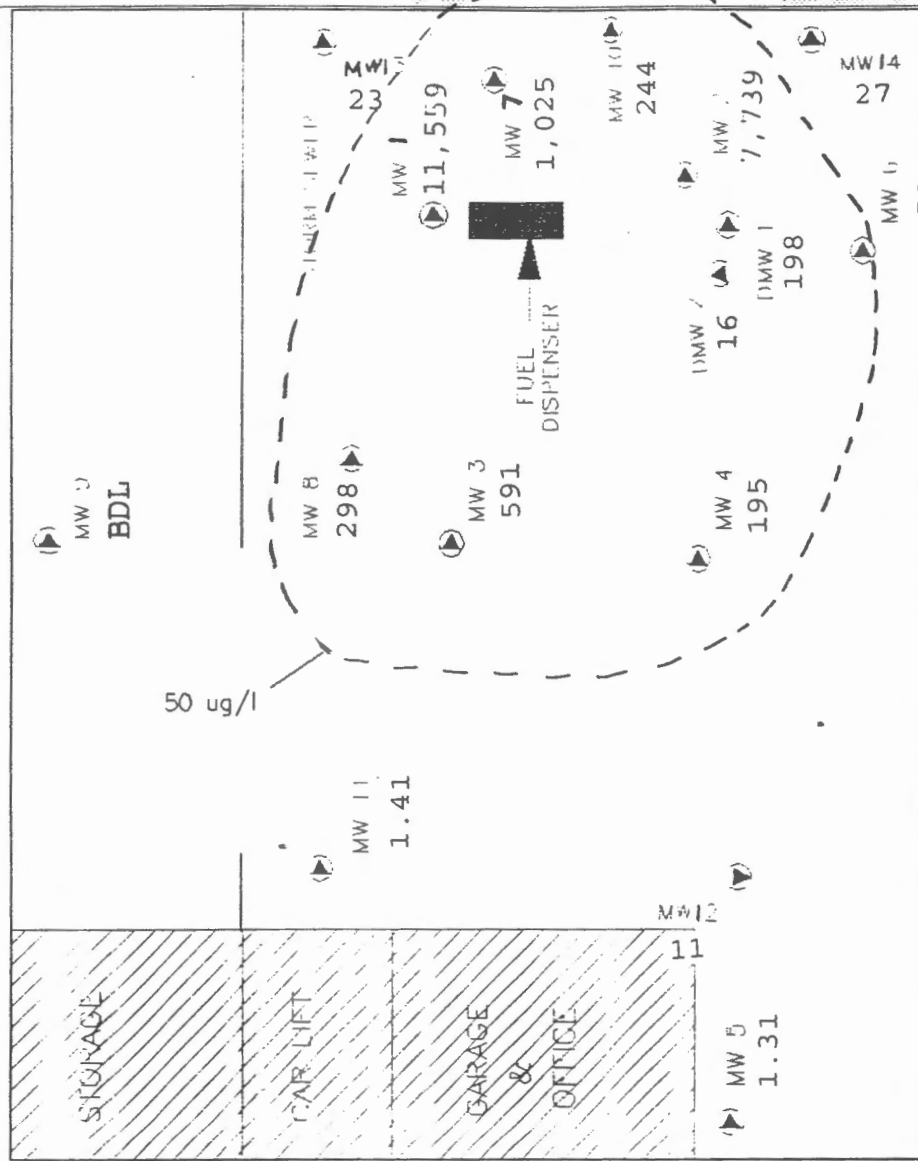
FIGURE

8





HAZARDOUS WASTES



S.W. 69TH AVENUE

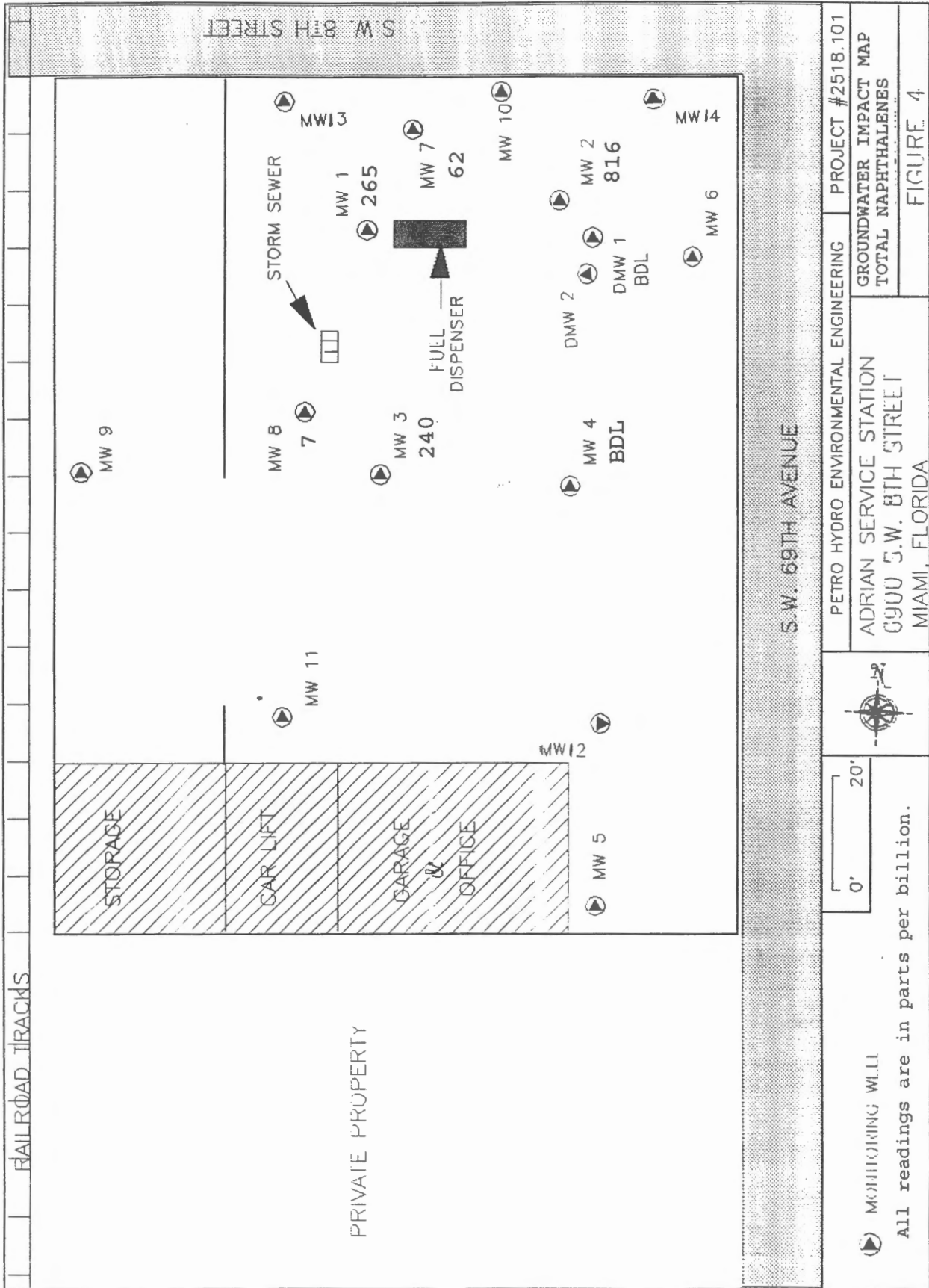
0' 20'

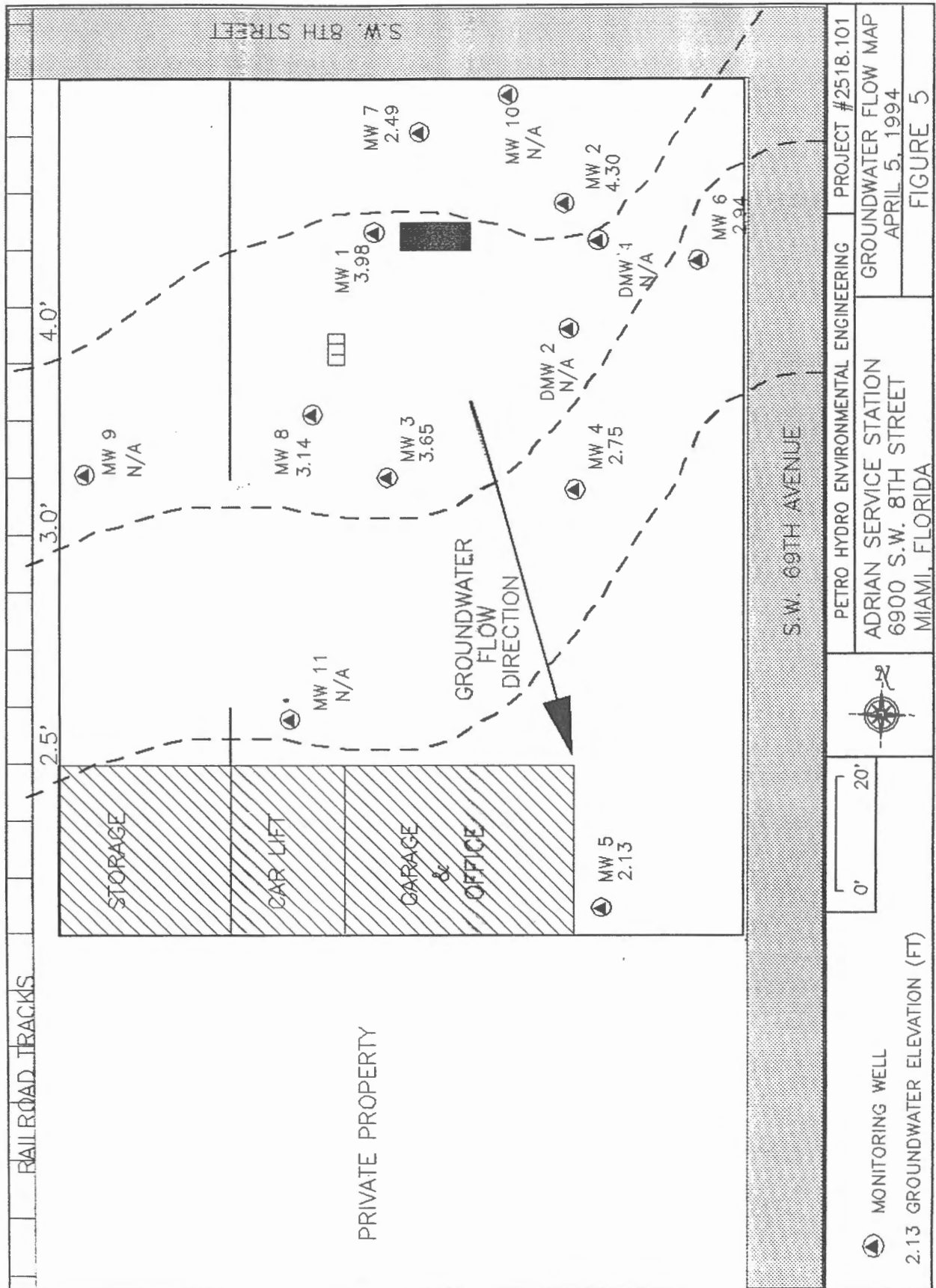
(▲) MONITORING WELL

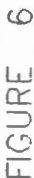
All readings are in parts per billion.



ADRIAN SERVICE STATION 6900 S.W. 8TH STREET MIAMI, FLORIDA	GROUNDWATER IMPACT MAP TOTAL BTX	PROJECT #2518.101
PETRO HYDRO ENVIRONMENTAL ENGINEERING		FIGURE 3







APPENDIX C

Table 1
SOIL QUALITY ANALYSIS

<u>Location</u>	<u>Depth</u>	<u>Unfiltered OVA Readings</u>
MW 12	2'	<10
	4'	<10
	5'	<10
MW 13	2'	<10
	4'	<10
	5'	<10
MW 14	2'	<10
	4'	<10
	5'	<10

NOTE: All results are recorded in parts per million.

Table 2
GROUNDWATER QUALITY RESULTS

Date	MW	Benzene	Toluene	Ethyl		Total	Total	Total
				Benzene	Xylenes	VOA	Naph.	Pah
11/02/94	12	BDL	1.10	1.92	8.32	11.37	*BDL	*BDL
11/02/94	13	3.27	5.99	2.35	10.91	22.52	--	--
11/02/94	14	3.57	8.34	3.06	12.51	27.48	--	--
11/02/94	DW1	--	--	--	--	--	BDL	BDL
11/02/94	3	--	--	--	--	--	240	BDL
05/02/94	DW2	BDL	BDL	4.26	11.7	15.96	--	--
11/21/94	1	--	--	--	--	--	265	BDL
11/21/94	2	--	--	--	--	--	816	BDL
11/21/94	4	--	--	--	--	--	BDL	BDL
11/21/94	7	--	--	--	--	--	62	BDL
11/21/94	8	--	--	--	--	--	7	BDL

Notes: All values are expressed in parts per billion.

* = Sample Date 11/21/94
 BDL = Below detection limits
 Total VOA = Volatile organic aromatics (summation of detected BTEX by EPA Method 602).
 Naph. = Total Naphthalenes, EPA 610
 PAH = Polynuclear aromatic hydrocarbons, EPA 610
 -- = Not analyzed

TABLE 3
SUMMARY OF GROUNDWATER ELEVATION SURVEY

MW NO.	SURVEY DATE	MONITORING WELL ELEVATION	GROUNDWATER DEPTH	GROUNDWATER ELEVATION
MW-1	12/17/92	10.28	6.15	4.13
MW-2	12/17/92	10.52	6.28	4.24
MW-3	12/17/92	10.13	6.36	3.77
MW-4	12/17/92	8.88	6.02	2.86
MW-5	12/17/92	9.90	6.66	3.24
MW-6	12/17/92	10.75	5.86	4.89
MW-7	12/17/92	9.21	6.08	3.13
MW-8	12/17/92	9.50	N/A	N/A
MW-1	4/05/94	10.28	6.30	3.98
MW-2	4/05/94	10.52	6.22	4.30
MW-3	4/05/94	10.13	6.48	3.65
MW-4	4/05/94	8.88	6.13	2.75
MW-5	4/05/94	8.88	6.75	2.13
MW-6	4/05/94	8.88	5.94	2.94
MW-7	4/05/94	8.88	6.39	2.49
MW-8	4/05/94	9.50	6.36	3.14

Table 4
Groundwater Level Measurements
November 21, 1994

Monitor Well	Depth to Water

1	5.00
2	4.89
3	5.12
4	4.87
5	5.52
6	4.71
7	4.94
8	5.06
9	5.31
10	5.09
11	5.13
12	5.32
13	5.27
14	5.31

NOTE: All groundwater measurements are expressed in feet.

APPENDIX D

SOIL BORING LOGS, WELL CONSTRUCTION AND DEVELOPMENT LOGS, AND WELL COMPLETION REPORTS

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings
Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings
Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Page 1 of

Boring/Well Number: SB-3		Permit Number: 13-59-14683		FDEP Facility Identification Number: 13/8503663	
Site Name: Jak Service Center dba United Fuel		Borehole Start Date: 06/05/18	Borehole Start Time: 0925	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 06/05/18	End Time: 0935	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: ATC Group Services LLC		Geologist's Name: Dwight W. Schwendeman		Environmental Technician's Name: Leif Rodney	
Drilling Company: JAE Environmental Services		Pavement Thickness (inches): 6	Borehole Diameter (inches): 2		Borehole Depth (feet): 6
Drilling Method(s): HA/DP	Apparent Borehole DTW (in feet from soil moisture content): ~6	Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): MiniRae 3000 <input type="checkbox"/> FID <input checked="" type="checkbox"/>	
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other (describe if other or multiple items are checked):					
Borehole Completion (check one): <input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA HA HA HA HA DP		12				0.5	1	Concrete, Fill - Limestone mix with P-rock	SW	D	Lab sample
						2	Fill - Limestone	D			
						3		D			
						4		D			
						5	Sand, medium to fine grain, grey to light grey	M			
						6	6 Feet - End of Boring	M			

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Page 1 of

Boring/Well Number: SB-4		Permit Number: 13-59-14683		FDEP Facility Identification Number: 13/8503663	
Site Name: Jak Service Center dba United Fuel		Borehole Start Date: 06/05/18	Borehole Start Time: 0945	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 06/05/18	End Time: 0955	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: ATC Group Services LLC		Geologist's Name: Dwight W. Schwendeman		Environmental Technician's Name: Leif Rodney	
Drilling Company: JAE Environmental Services		Pavement Thickness (inches): 6	Borehole Diameter (inches): 2		Borehole Depth (feet): 6
Drilling Method(s): HA/DP	Apparent Borehole DTW (in feet from soil moisture content): ~6	Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): MiniRae 3000 <input type="checkbox"/> FID <input checked="" type="checkbox"/>	
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other (describe if other or multiple items are checked):					
Borehole Completion (check one): <input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type		Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)	
HA		12					<0.1	1	Concrete, Fill - Limestone	SW	D		
HA		12					2	Sand, medium to fine grain, pale brown					
HA		12				<0.1	3	Sand, medium to fine grain, grey	SW	D			
HA		12					4			D			
HA		12				0.1	5	Sand, medium to fine grain, light reddish brown	SW	M			
DP		8					6						M
									6 Feet - End of Boring				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Page 1 of

Boring/Well Number: SB-5		Permit Number: 13-59-14683		FDEP Facility Identification Number: 13/8503663							
Site Name: Jak Service Center dba United Fuel		Borehole Start Date: 06/05/18	Borehole Start Time: 1100	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM						
		End Date: 06/05/18	End Time: 1110	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM						
Environmental Contractor: ATC Group Services LLC		Geologist's Name: Dwight W. Schwendeman		Environmental Technician's Name: Leif Rodney							
Drilling Company: JAEE Environmental Services		Pavement Thickness (inches): 2	Borehole Diameter (inches): 2	Borehole Depth (feet): 13							
Drilling Method(s): HA/DP	Apparent Borehole DTW (in feet from soil moisture content): ~6	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type): MiniRae 3000 <input type="checkbox"/> FID <input checked="" type="checkbox"/>								
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other (describe if other or multiple items are checked):											
Borehole Completion (check one): <input checked="" type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)											
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA		12				<0.1	1	Asphalt/Concrete, Fill - Limestone Sand with Limestone fragments	SW	D	
HA		12					2	Sand, medium to fine grain, brown trend to light brown		D	
HA		12				0.3	3			D	
HA		12					4	Limestone, Pale brown		D	
DP		8				<0.1	5			M	
DP		8					6			M	
								6 Feet - End of sample collection			

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA				
Well Number: MW-9	Site Name: Jak Service Center dba United Fuel		FDEP Facility I.D. Number: 13/8503663	Well Install Date(s): 06/05/2018
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input checked="" type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input type="checkbox"/> Remediation or Other (describe)		Well Install Method: Direct Push
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA
Borehole Depth (feet): 13	Well Depth (feet): 13.00	Borehole Diameter (inches): 3.25	Manhole Diameter (inches): 8	Well Pad Size: 2 feet by 2 feet
Riser Diameter and Material: 1.5 - SCH 40 PVC	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: 3 feet from 0 feet to 3 feet		
Screen Diameter and Material: 1.5 - SCH 40 PVC	Screen Slot Size: 0.010-inch	Screen Length: 10 feet from 10 feet to 13 feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet		
Filter Pack Material and Size: 20/30 silica sand	Prepacked Filter Around Screen (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Filter Pack Length: 11 feet from 2 feet to 13 feet		
Filter Pack Seal Material and Size:	Sand 30/65	Filter Pack Seal Length: 1 feet from 1 feet to 2 feet		
Surface Seal Material:	Portland Cement Grout	Surface Seal Length: 5 feet from 0.5 feet to 1 feet		

WELL DEVELOPMENT DATA			
Well Development Date: 06/06/18	Well Development Method (check one): <input type="checkbox"/> Surge/Pum <input checked="" type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input checked="" type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet): 6.15	
Pumping Rate (gallons per minute): ~0.50	Maximum Drawdown of Groundwater During Development (feet): ~0.9	Well Purged Dry (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Pumping Condition (check one): <input checked="" type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons): ~14	Development Duration (minutes): 27	Development Water Drummed (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Water Appearance (color and odor) At Start of Development: light brownish white - none		Water Appearance (color and odor) At End of Development: none - none	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS



STATE OF FLORIDA WELL COMPLETION REPORT

Date Stamp

- ☐ Southwest
☐ Northwest
☐ St. Johns River
☐ South Florida
☐ Suwannee River
☐ DEP

PLEASE, FILL OUT ALL APPLICABLE FIELDS
(*Denotes Required Fields Where Applicable)

☐ Delegated Authority (If Applicable)

Official Use Only

1.*Permit Number **13-59-14683** *CUP/WUP Number _____ *DID Number _____ 62-524 Delineation No. _____
2.*Number of permitted wells constructed, repaired, or abandoned **1** *Number of permitted wells not constructed, repaired, or abandoned **0**
3.*Owner's Name **Jorges Ugan & W Julila** 4.*Completion Date **6/13/18** 5. Florida Unique ID _____
6. **6900 SW 8 St, Miami 33144**

*Well Location - Address, Road Name or Number, City, ZIP

7.*County **Dade** *Section _____ Land Grant _____ *Township _____ *Range _____

8. Latitude _____ Longitude _____

9. Data Obtained From: _____ GPS _____ Map _____ Survey _____ Datum: _____ NAD 27 _____ NAD 83 _____ WGS 84

10.*Type of Work: ☒ Construction _____ Repair _____ Modification _____ Abandonment

11.*Specify Intended Use(s) of Well(s):

_____ Domestic _____ Landscape Irrigation _____ Agricultural Irrigation _____ Site Investigation
_____ Bottled Water Supply _____ Recreation Area Irrigation _____ Livestock _____ ☒ Monitoring
_____ Public Water Supply (Limited Use/DOH) _____ Nursery Irrigation _____ Test
_____ Public Water Supply (Community or Non-Community/DEP) _____ Commercial/Industrial _____ Earth-Coupled Geothermal
_____ Class I Injection _____ Golf Course Irrigation _____ HVAC Supply
_____ Class V Injection: _____ Recharge _____ Commercial/Industrial Disposal _____ Aquifer Storage and Recovery _____ Drainage
_____ Remediation: _____ Recovery _____ Air Sparge _____ Other (Describe) _____
_____ Other (Describe) _____

12.*Drill Method: _____ Auger _____ Cable Tool _____ Rotary _____ Combination (Two or More Methods) _____ Jetted _____ Sonic
_____ Horizontal Drilling ☒ Hydraulic Point (Direct Push) _____ Other _____

13.*Measured Static Water Level _____ ft. Measured Pumping Water Level _____ ft. After _____ Hours at _____ GPM

14.*Measuring Point (Describe) _____ Which is _____ ft. Above _____ Below Land Surface *Flowing: _____ Yes _____ No

15.*Casing Material: _____ Black Steel _____ Galvanized _____ PVC _____ Stainless Steel _____ Not Cased _____ Other _____

16.*Total Well Depth **13** ft. Cased Depth **3** ft. *Open Hole: From **0** To **0** ft. *Screen: From **5** To **15** ft. Slot Size .010

17.*Abandonment: _____ Other (Explain) _____

From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____
From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____
From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____
From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____
From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____

18.*Surface Casing Diameter and Depth:

Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____

19.*Primary Casing Diameter and Depth:

Dia 13 in. From 0 ft. To 3 ft. No. of Bags 1	Seal Material (Check One): <input checked="" type="checkbox"/> Neat Cement _____ Bentonite _____ Other _____
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____

20.*Liner Casing Diameter and Depth:

Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____

21.*Telescope Casing Diameter and Depth:

Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____

22. Pump Type (If Known):

_____ Centrifugal _____ Jet _____ Submersible _____ Turbine

Horsepower _____ Pump Capacity (GPM) _____

Pump Depth _____ ft. Intake Depth _____ ft.

24. Water Well Contractor:

*Contractor Name **Erin Fromm**

*License Number **11313**

E-mail Address **Jae@bellsouth.net**

*Contractor's Signature _____

*Driller's Name (Print or Type) **w smitherman**

(I certify that the information provided in this report is accurate and true.)

APPENDIX E

LABORATORY ANALYTICAL REPORTS GROUND WATER SAMPLING LOGS

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

ATC Group Services LLC.

Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Z101430699

SGS Job Number: FA51986

Sampling Dates: 02/21/18 - 02/22/18



Report to:

**ATC Group Services LLC.
9955 NW 116th Way Suite 1
Miami, FL 33178
dwight.schwendeman@atcassociates.com**

ATTN: Dwight Schwendeman

Total number of pages in report: 74



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

**Caitlin Brice, M.S.
General Manager**

Client Service contact: Muna Mohammed 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),
AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Summary of Hits	4
Section 3: Sample Results	6
3.1: FA51986-1: MW 1	7
3.2: FA51986-2: MW 2	10
3.3: FA51986-3: MW 3	13
3.4: FA51986-4: MW 4	16
3.5: FA51986-5: MW 5	19
3.6: FA51986-6: MW 6	22
3.7: FA51986-7: MW 7	25
3.8: FA51986-8: MW 8	31
3.9: FA51986-9: MW B	34
Section 4: Misc. Forms	37
4.1: Chain of Custody	38
Section 5: MS Volatiles - QC Data Summaries	40
5.1: Method Blank Summary	41
5.2: Blank Spike Summary	45
5.3: Matrix Spike/Matrix Spike Duplicate Summary	49
Section 6: MS Semi-volatiles - QC Data Summaries	53
6.1: Method Blank Summary	54
6.2: Blank Spike Summary	55
6.3: Matrix Spike/Matrix Spike Duplicate Summary	56
Section 7: GC Volatiles - QC Data Summaries	57
7.1: Method Blank Summary	58
7.2: Blank Spike Summary	59
7.3: Matrix Spike/Matrix Spike Duplicate Summary	60
Section 8: GC/LC Semi-volatiles - QC Data Summaries	61
8.1: Method Blank Summary	62
8.2: Blank Spike Summary	64
8.3: Matrix Spike/Matrix Spike Duplicate Summary	66
Section 9: Metals Analysis - QC Data Summaries	68
9.1: Prep QC MP33393: Pb	69



Sample Summary

ATC Group Services LLC.

Job No: FA51986

Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL
Project No: Z101430699

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FA51986-1	02/21/18	12:05 LR	02/23/18	AQ	Ground Water	MW 1
FA51986-2	02/21/18	15:01 LR	02/23/18	AQ	Ground Water	MW 2
FA51986-3	02/21/18	14:11 LR	02/23/18	AQ	Ground Water	MW 3
FA51986-4	02/21/18	13:26 LR	02/23/18	AQ	Ground Water	MW 4
FA51986-5	02/22/18	12:53 LR	02/23/18	AQ	Ground Water	MW 5
FA51986-6	02/22/18	12:08 LR	02/23/18	AQ	Ground Water	MW 6
FA51986-7	02/22/18	10:26 LR	02/23/18	AQ	Ground Water	MW 7
FA51986-8	02/22/18	11:26 LR	02/23/18	AQ	Ground Water	MW 8
FA51986-9	02/22/18	13:44 LR	02/23/18	AQ	Ground Water	MW B

Summary of Hits

Page 1 of 2

Job Number: FA51986
Account: ATC Group Services LLC.
Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL
Collected: 02/21/18 thru 02/22/18

Lab Sample ID	Client Sample ID	Result/ Qual	PQL	MDL	Units	Method
Analyte						

FA51986-1 MW 1

Fluorene	0.39 I	0.80	0.20	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene	40.2	8.0	3.2	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene	38.9	8.0	3.2	ug/l	SW846 8270D BY SIM
Naphthalene	0.59 I	0.80	0.32	ug/l	SW846 8270D BY SIM
TPH (C8-C40)	1.79	0.24	0.14	mg/l	FLORIDA-PRO

FA51986-2 MW 2

Benzene	0.32 I	1.0	0.31	ug/l	SW846 8260B
Acenaphthene	0.65 I	0.80	0.32	ug/l	SW846 8270D BY SIM
Fluorene	0.63 I	0.80	0.20	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene	9.5	0.80	0.32	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene	8.2	0.80	0.32	ug/l	SW846 8270D BY SIM
Naphthalene	1.5	0.80	0.32	ug/l	SW846 8270D BY SIM
Phenanthrene	0.37 I	0.80	0.20	ug/l	SW846 8270D BY SIM
TPH (C8-C40)	2.13	0.24	0.14	mg/l	FLORIDA-PRO

FA51986-3 MW 3

Benzene	0.58 I	1.0	0.31	ug/l	SW846 8260B
Toluene	0.32 I	1.0	0.30	ug/l	SW846 8260B
Ethylbenzene	0.50 I	1.0	0.36	ug/l	SW846 8260B
Xylene (total)	1.3 I	3.0	0.72	ug/l	SW846 8260B
Fluorene	0.43 I	0.80	0.20	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene	13.4	0.80	0.32	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene	21.8	0.80	0.32	ug/l	SW846 8270D BY SIM
Naphthalene	13.4	0.80	0.32	ug/l	SW846 8270D BY SIM
TPH (C8-C40)	1.63	0.24	0.14	mg/l	FLORIDA-PRO

FA51986-4 MW 4

1-Methylnaphthalene	2.5	0.80	0.32	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene	2.4	0.80	0.32	ug/l	SW846 8270D BY SIM
Naphthalene	0.49 I	0.80	0.32	ug/l	SW846 8270D BY SIM
TPH (C8-C40)	0.300	0.24	0.14	mg/l	FLORIDA-PRO

FA51986-5 MW 5

No hits reported in this sample.

FA51986-6 MW 6

No hits reported in this sample.

Summary of Hits

Job Number: FA51986
Account: ATC Group Services LLC.
Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL
Collected: 02/21/18 thru 02/22/18

Lab Sample ID	Client Sample ID	Result/ Qual	PQL	MDL	Units	Method
---------------	------------------	-----------------	-----	-----	-------	--------

FA51986-7 MW 7

Benzene	0.32 I	1.0	0.31	ug/l	SW846 8260B
Ethylbenzene	3.5	1.0	0.36	ug/l	SW846 8260B
Xylene (total)	0.80 I	3.0	0.72	ug/l	SW846 8260B
Fluorene	0.54 I	0.80	0.20	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene	75.1	8.0	3.2	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene	118	8.0	3.2	ug/l	SW846 8270D BY SIM
Naphthalene	84.9	8.0	3.2	ug/l	SW846 8270D BY SIM
Phenanthrene	0.23 I	0.80	0.20	ug/l	SW846 8270D BY SIM
TPH (C8-C40)	3.25	1.3	0.75	mg/l	FLORIDA-PRO
Lead	17.5	5.0	1.1	ug/l	SW846 6010C

FA51986-8 MW 8

No hits reported in this sample.

FA51986-9 MW B

No hits reported in this sample.



Orlando, FL

Section 3



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW 1		
Lab Sample ID:	FA51986-1	Date Sampled:	02/21/18
Matrix:	AQ - Ground Water	Date Received:	02/23/18
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1A10046.D	1	03/01/18 18:26	SP	n/a	n/a	V1A370
Run #2	O50968.D	1	02/26/18 13:35	SP	n/a	n/a	VO1914

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	0.31 U	1.0	0.31	ug/l	
108-88-3	Toluene	0.30 U	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	0.36 U	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	0.72 U	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.23 U ^b	1.0	0.23	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	109%	102%	79-125%
2037-26-5	Toluene-D8	100%	96%	85-112%
460-00-4	4-Bromofluorobenzene	105%	99%	83-118%

(a) Sample vial(s) contained significant headspace; reported results are considered minimum values.

(b) Result is from Run# 2

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 1		
Lab Sample ID:	FA51986-1	Date Sampled:	02/21/18
Matrix:	AQ - Ground Water	Date Received:	02/23/18
Method:	SW846 8270D BY SIM SW846 3510C	Percent Solids:	n/a
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R475620.D	1	03/02/18 02:09	RV	02/26/18 16:00	OP68917	SR2877
Run #2	U064542.D	10	03/03/18 01:08	RV	02/26/18 16:00	OP68917	SU2816

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2	250 ml	1.0 ml

BN PAH List

CAS No.	Compound	Result	PQL	MDL	Units	Q
83-32-9	Acenaphthene	0.32 U	0.80	0.32	ug/l	
208-96-8	Acenaphthylene	0.32 U	0.80	0.32	ug/l	
120-12-7	Anthracene	0.20 U	0.80	0.20	ug/l	
56-55-3	Benzo(a)anthracene	0.032 U	0.16	0.032	ug/l	
50-32-8	Benzo(a)pyrene	0.032 U	0.16	0.032	ug/l	
205-99-2	Benzo(b)fluoranthene	0.032 U	0.16	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.032 U	0.16	0.032	ug/l	
207-08-9	Benzo(k)fluoranthene	0.032 U	0.16	0.032	ug/l	
218-01-9	Chrysene	0.032 U	0.16	0.032	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.032 U	0.16	0.032	ug/l	
206-44-0	Fluoranthene	0.20 U	0.80	0.20	ug/l	
86-73-7	Fluorene	0.39	0.80	0.20	ug/l	I
193-39-5	Indeno(1,2,3-cd)pyrene	0.032 U	0.16	0.032	ug/l	
90-12-0	1-Methylnaphthalene	40.2 ^a	8.0	3.2	ug/l	
91-57-6	2-Methylnaphthalene	38.9 ^a	8.0	3.2	ug/l	
91-20-3	Naphthalene	0.59	0.80	0.32	ug/l	I
85-01-8	Phenanthrene	0.20 U	0.80	0.20	ug/l	
129-00-0	Pyrene	0.20 U	0.80	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%	62%	41-129%
321-60-8	2-Fluorobiphenyl	67%	93%	41-118%
1718-51-0	Terphenyl-d14	97%	100%	45-145%

(a) Result is from Run# 2

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 1	
Lab Sample ID:	FA51986-1	Date Sampled: 02/21/18
Matrix:	AQ - Ground Water	Date Received: 02/23/18
Method:	FLORIDA-PRO SW846 3510C	Percent Solids: n/a
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LR03248.D	1	02/28/18 19:45	SJL	02/27/18 10:50	OP68927	GLR283
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	PQL	MDL	Units	Q
	TPH (C8-C40)	1.79	0.24	0.14	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	95%		41-146%

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 2						
Lab Sample ID:	FA51986-2					Date Sampled:	02/21/18
Matrix:	AQ - Ground Water					Date Received:	02/23/18
Method:	SW846 8260B					Percent Solids:	n/a
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A10047.D	1	03/01/18 18:49	SP	n/a	n/a	V1A370
Run #2 ^a	O50969.D	1	02/26/18 13:56	SP	n/a	n/a	VO1914

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	0.32	1.0	0.31	ug/l	I
108-88-3	Toluene	0.30 U	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	0.36 U	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	0.72 U	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.23 U	1.0	0.23	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	109%	102%	79-125%
2037-26-5	Toluene-D8	99%	96%	85-112%
460-00-4	4-Bromofluorobenzene	104%	100%	83-118%

(a) Confirmation run.

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 2	Date Sampled:	02/21/18
Lab Sample ID:	FA51986-2	Date Received:	02/23/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3510C		
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U064543.D	1	03/03/18 01:33	RV	02/26/18 16:00	OP68917	SU2816
Run #2							

Run #	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	PQL	MDL	Units	Q
83-32-9	Acenaphthene	0.65	0.80	0.32	ug/l	I
208-96-8	Acenaphthylene	0.32 U	0.80	0.32	ug/l	
120-12-7	Anthracene	0.20 U	0.80	0.20	ug/l	
56-55-3	Benzo(a)anthracene	0.032 U	0.16	0.032	ug/l	
50-32-8	Benzo(a)pyrene	0.032 U	0.16	0.032	ug/l	
205-99-2	Benzo(b)fluoranthene	0.032 U	0.16	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.032 U	0.16	0.032	ug/l	
207-08-9	Benzo(k)fluoranthene	0.032 U	0.16	0.032	ug/l	
218-01-9	Chrysene	0.032 U	0.16	0.032	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.032 U	0.16	0.032	ug/l	
206-44-0	Fluoranthene	0.20 U	0.80	0.20	ug/l	
86-73-7	Fluorene	0.63	0.80	0.20	ug/l	I
193-39-5	Indeno(1,2,3-cd)pyrene	0.032 U	0.16	0.032	ug/l	
90-12-0	1-Methylnaphthalene	9.5	0.80	0.32	ug/l	
91-57-6	2-Methylnaphthalene	8.2	0.80	0.32	ug/l	
91-20-3	Naphthalene	1.5	0.80	0.32	ug/l	
85-01-8	Phenanthrene	0.37	0.80	0.20	ug/l	I
129-00-0	Pyrene	0.20 U	0.80	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	85%		41-129%
321-60-8	2-Fluorobiphenyl	82%		41-118%
1718-51-0	Terphenyl-d14	85%		45-145%

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	MW 2	Date Sampled:	02/21/18
Lab Sample ID:	FA51986-2	Date Received:	02/23/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	FLORIDA-PRO SW846 3510C		
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LR03249.D	1	02/28/18 20:05	SJL	02/27/18 10:50	OP68927	GLR283
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	PQL	MDL	Units	Q
	TPH (C8-C40)	2.13	0.24	0.14	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	99%		41-146%		

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 3						
Lab Sample ID:	FA51986-3					Date Sampled:	02/21/18
Matrix:	AQ - Ground Water					Date Received:	02/23/18
Method:	SW846 8260B					Percent Solids:	n/a
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A10048.D	1	03/01/18 19:12	SP	n/a	n/a	V1A370
Run #2 ^a	O50970.D	1	02/26/18 14:17	SP	n/a	n/a	VO1914

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	0.58	1.0	0.31	ug/l	I
108-88-3	Toluene	0.32	1.0	0.30	ug/l	I
100-41-4	Ethylbenzene	0.50	1.0	0.36	ug/l	I
1330-20-7	Xylene (total)	1.3	3.0	0.72	ug/l	I
1634-04-4	Methyl Tert Butyl Ether	0.23 U	1.0	0.23	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	102%	79-125%
2037-26-5	Toluene-D8	100%	97%	85-112%
460-00-4	4-Bromofluorobenzene	107%	101%	83-118%

(a) Confirmation run.

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 3	Date Sampled:	02/21/18
Lab Sample ID:	FA51986-3	Date Received:	02/23/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3510C		
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T036651.D	1	03/06/18 14:25	RV	02/26/18 16:00	OP68917	ST1357
Run #2							

Run #	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	PQL	MDL	Units	Q
83-32-9	Acenaphthene	0.32 U	0.80	0.32	ug/l	
208-96-8	Acenaphthylene	0.32 U	0.80	0.32	ug/l	
120-12-7	Anthracene	0.20 U	0.80	0.20	ug/l	
56-55-3	Benzo(a)anthracene	0.032 U	0.16	0.032	ug/l	
50-32-8	Benzo(a)pyrene	0.032 U	0.16	0.032	ug/l	
205-99-2	Benzo(b)fluoranthene	0.032 U	0.16	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.032 U	0.16	0.032	ug/l	
207-08-9	Benzo(k)fluoranthene	0.032 U	0.16	0.032	ug/l	
218-01-9	Chrysene	0.032 U	0.16	0.032	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.032 U	0.16	0.032	ug/l	
206-44-0	Fluoranthene	0.20 U	0.80	0.20	ug/l	
86-73-7	Fluorene	0.43	0.80	0.20	ug/l	I
193-39-5	Indeno(1,2,3-cd)pyrene	0.032 U	0.16	0.032	ug/l	
90-12-0	1-Methylnaphthalene	13.4	0.80	0.32	ug/l	
91-57-6	2-Methylnaphthalene	21.8	0.80	0.32	ug/l	
91-20-3	Naphthalene	13.4	0.80	0.32	ug/l	
85-01-8	Phenanthrene	0.20 U	0.80	0.20	ug/l	
129-00-0	Pyrene	0.20 U	0.80	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	89%		41-129%
321-60-8	2-Fluorobiphenyl	85%		41-118%
1718-51-0	Terphenyl-d14	91%		45-145%

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 3	Date Sampled:	02/21/18
Lab Sample ID:	FA51986-3	Date Received:	02/23/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	FLORIDA-PRO SW846 3510C		
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LR03250.D	1	02/28/18 20:26	SJL	02/27/18 10:50	OP68927	GLR283
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	PQL	MDL	Units	Q
	TPH (C8-C40)	1.63	0.24	0.14	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	106%		41-146%		

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 4						
Lab Sample ID:	FA51986-4					Date Sampled:	02/21/18
Matrix:	AQ - Ground Water					Date Received:	02/23/18
Method:	SW846 8260B					Percent Solids:	n/a
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O50971.D	1	02/26/18 14:37	SP	n/a	n/a	VO1914
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	0.31 U	1.0	0.31	ug/l	
108-88-3	Toluene	0.30 U	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	0.36 U	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	0.72 U	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.23 U	1.0	0.23	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 4	Date Sampled:	02/21/18
Lab Sample ID:	FA51986-4	Date Received:	02/23/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3510C		
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T036652.D	1	03/06/18 14:55	RV	02/26/18 16:00	OP68917	ST1357
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	PQL	MDL	Units	Q
83-32-9	Acenaphthene	0.32 U	0.80	0.32	ug/l	
208-96-8	Acenaphthylene	0.32 U	0.80	0.32	ug/l	
120-12-7	Anthracene	0.20 U	0.80	0.20	ug/l	
56-55-3	Benzo(a)anthracene	0.032 U	0.16	0.032	ug/l	
50-32-8	Benzo(a)pyrene	0.032 U	0.16	0.032	ug/l	
205-99-2	Benzo(b)fluoranthene	0.032 U	0.16	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.032 U	0.16	0.032	ug/l	
207-08-9	Benzo(k)fluoranthene	0.032 U	0.16	0.032	ug/l	
218-01-9	Chrysene	0.032 U	0.16	0.032	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.032 U	0.16	0.032	ug/l	
206-44-0	Fluoranthene	0.20 U	0.80	0.20	ug/l	
86-73-7	Fluorene	0.20 U	0.80	0.20	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.032 U	0.16	0.032	ug/l	
90-12-0	1-Methylnaphthalene	2.5	0.80	0.32	ug/l	
91-57-6	2-Methylnaphthalene	2.4	0.80	0.32	ug/l	
91-20-3	Naphthalene	0.49	0.80	0.32	ug/l	I
85-01-8	Phenanthrene	0.20 U	0.80	0.20	ug/l	
129-00-0	Pyrene	0.20 U	0.80	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	84%		41-129%
321-60-8	2-Fluorobiphenyl	101%		41-118%
1718-51-0	Terphenyl-d14	94%		45-145%

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	MW 4	
Lab Sample ID:	FA51986-4	Date Sampled: 02/21/18
Matrix:	AQ - Ground Water	Date Received: 02/23/18
Method:	FLORIDA-PRO SW846 3510C	Percent Solids: n/a
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LR03251.D	1	02/28/18 20:47	SJL	02/27/18 10:50	OP68927	GLR283
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	PQL	MDL	Units	Q
	TPH (C8-C40)	0.300	0.24	0.14	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	112%		41-146%

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 5						
Lab Sample ID:	FA51986-5					Date Sampled:	02/22/18
Matrix:	AQ - Ground Water					Date Received:	02/23/18
Method:	SW846 8260B					Percent Solids:	n/a
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O50972.D	1	02/26/18 14:58	SP	n/a	n/a	VO1914
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	0.31 U	1.0	0.31	ug/l	
108-88-3	Toluene	0.30 U	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	0.36 U	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	0.72 U	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.23 U	1.0	0.23	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 5	Date Sampled:	02/22/18
Lab Sample ID:	FA51986-5	Date Received:	02/23/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3510C		
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R475624.D	1	03/02/18 04:16	RV	02/26/18 16:00	OP68917	SR2877
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	PQL	MDL	Units	Q
83-32-9	Acenaphthene	0.32 U	0.80	0.32	ug/l	
208-96-8	Acenaphthylene	0.32 U	0.80	0.32	ug/l	
120-12-7	Anthracene	0.20 U	0.80	0.20	ug/l	
56-55-3	Benzo(a)anthracene	0.032 U	0.16	0.032	ug/l	
50-32-8	Benzo(a)pyrene	0.032 U	0.16	0.032	ug/l	
205-99-2	Benzo(b)fluoranthene	0.032 U	0.16	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.032 U	0.16	0.032	ug/l	
207-08-9	Benzo(k)fluoranthene	0.032 U	0.16	0.032	ug/l	
218-01-9	Chrysene	0.032 U	0.16	0.032	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.032 U	0.16	0.032	ug/l	
206-44-0	Fluoranthene	0.20 U	0.80	0.20	ug/l	
86-73-7	Fluorene	0.20 U	0.80	0.20	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.032 U	0.16	0.032	ug/l	
90-12-0	1-Methylnaphthalene	0.32 U	0.80	0.32	ug/l	
91-57-6	2-Methylnaphthalene ^a	0.32 U	0.80	0.32	ug/l	
91-20-3	Naphthalene	0.32 U	0.80	0.32	ug/l	
85-01-8	Phenanthrene	0.20 U	0.80	0.20	ug/l	
129-00-0	Pyrene	0.20 U	0.80	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	89%		41-129%
321-60-8	2-Fluorobiphenyl	80%		41-118%
1718-51-0	Terphenyl-d14	97%		45-145%

(a) Associated CCV outside of control limits high, sample was ND.

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 5	Date Sampled:	02/22/18
Lab Sample ID:	FA51986-5	Date Received:	02/23/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	FLORIDA-PRO SW846 3510C		
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LR03307.D	1	03/01/18 15:49	SJL	02/27/18 16:30	OP68936	GLR283
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	PQL	MDL	Units	Q
	TPH (C8-C40)	0.15 U	0.25	0.15	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	97%		41-146%		

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 6						
Lab Sample ID:	FA51986-6					Date Sampled:	02/22/18
Matrix:	AQ - Ground Water					Date Received:	02/23/18
Method:	SW846 8260B					Percent Solids:	n/a
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O50973.D	1	02/26/18 15:19	SP	n/a	n/a	VO1914
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	0.31 U	1.0	0.31	ug/l	
108-88-3	Toluene	0.30 U	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	0.36 U	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	0.72 U	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.23 U	1.0	0.23	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 6	Date Sampled:	02/22/18
Lab Sample ID:	FA51986-6	Date Received:	02/23/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3510C		
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R475625.D	1	03/02/18 04:47	RV	02/26/18 16:00	OP68917	SR2877
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	PQL	MDL	Units	Q
83-32-9	Acenaphthene	0.32 U	0.80	0.32	ug/l	
208-96-8	Acenaphthylene	0.32 U	0.80	0.32	ug/l	
120-12-7	Anthracene	0.20 U	0.80	0.20	ug/l	
56-55-3	Benzo(a)anthracene	0.032 U	0.16	0.032	ug/l	
50-32-8	Benzo(a)pyrene	0.032 U	0.16	0.032	ug/l	
205-99-2	Benzo(b)fluoranthene	0.032 U	0.16	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.032 U	0.16	0.032	ug/l	
207-08-9	Benzo(k)fluoranthene	0.032 U	0.16	0.032	ug/l	
218-01-9	Chrysene	0.032 U	0.16	0.032	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.032 U	0.16	0.032	ug/l	
206-44-0	Fluoranthene	0.20 U	0.80	0.20	ug/l	
86-73-7	Fluorene	0.20 U	0.80	0.20	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.032 U	0.16	0.032	ug/l	
90-12-0	1-Methylnaphthalene	0.32 U	0.80	0.32	ug/l	
91-57-6	2-Methylnaphthalene ^a	0.32 U	0.80	0.32	ug/l	
91-20-3	Naphthalene	0.32 U	0.80	0.32	ug/l	
85-01-8	Phenanthrene	0.20 U	0.80	0.20	ug/l	
129-00-0	Pyrene	0.20 U	0.80	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	91%		41-129%
321-60-8	2-Fluorobiphenyl	81%		41-118%
1718-51-0	Terphenyl-d14	97%		45-145%

(a) Associated CCV outside of control limits high, sample was ND.

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	MW 6	Date Sampled:	02/22/18
Lab Sample ID:	FA51986-6	Date Received:	02/23/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	FLORIDA-PRO SW846 3510C		
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LR03308.D	1	03/01/18 16:10	SJL	02/27/18 16:30	OP68936	GLR283
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	PQL	MDL	Units	Q
	TPH (C8-C40)	0.15 U	0.25	0.15	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	99%		41-146%		

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 7	Date Sampled:	02/22/18
Lab Sample ID:	FA51986-7	Date Received:	02/23/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B125756.D	1	02/28/18 10:37	AJ	n/a	n/a	VB5064
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8021 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	0.32	1.0	0.31	ug/l	I
75-27-4	Bromodichloromethane	0.24 U	1.0	0.24	ug/l	
75-25-2	Bromoform	0.41 U	1.0	0.41	ug/l	
56-23-5	Carbon Tetrachloride	0.36 U	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	0.20 U	1.0	0.20	ug/l	
75-00-3	Chloroethane	0.67 U	2.0	0.67	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether ^a	2.1 U	5.0	2.1	ug/l	
67-66-3	Chloroform	0.30 U	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	0.28 U	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	0.50 U	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.32 U	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.26 U	1.0	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.34 U	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.31 U	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.32 U	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.28 U	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.22 U	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.43 U	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.29 U	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	3.5	1.0	0.36	ug/l	
74-83-9	Methyl Bromide	0.59 U	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	0.50 U	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.23 U	1.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.30 U	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.30 U	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	0.25 U	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.47 U	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	0.35 U	1.0	0.35	ug/l	

U = Not detected MDL = Method Detection Limit

PQL = Practical Quantitation Limit

L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 7	Date Sampled:	02/22/18
Lab Sample ID:	FA51986-7	Date Received:	02/23/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

VOA 8021 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.41 U	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	0.80	3.0	0.72	ug/l	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

(a) Result reported from HCl preserved sample and should be used for screening purposes only.

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 7	Date Sampled:	02/22/18
Lab Sample ID:	FA51986-7	Date Received:	02/23/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3510C		
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R475626.D	1	03/02/18 05:18	RV	02/26/18 16:00	OP68917	SR2877
Run #2	U064544.D	10	03/03/18 01:57	RV	02/26/18 16:00	OP68917	SU2816

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2	250 ml	1.0 ml

BN PAH List

CAS No.	Compound	Result	PQL	MDL	Units	Q
83-32-9	Acenaphthene	0.32 U	0.80	0.32	ug/l	
208-96-8	Acenaphthylene	0.32 U	0.80	0.32	ug/l	
120-12-7	Anthracene	0.20 U	0.80	0.20	ug/l	
56-55-3	Benzo(a)anthracene	0.032 U	0.16	0.032	ug/l	
50-32-8	Benzo(a)pyrene	0.032 U	0.16	0.032	ug/l	
205-99-2	Benzo(b)fluoranthene	0.032 U	0.16	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.032 U	0.16	0.032	ug/l	
207-08-9	Benzo(k)fluoranthene	0.032 U	0.16	0.032	ug/l	
218-01-9	Chrysene	0.032 U	0.16	0.032	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.032 U	0.16	0.032	ug/l	
206-44-0	Fluoranthene	0.20 U	0.80	0.20	ug/l	
86-73-7	Fluorene	0.54	0.80	0.20	ug/l	I
193-39-5	Indeno(1,2,3-cd)pyrene	0.032 U	0.16	0.032	ug/l	
90-12-0	1-Methylnaphthalene	75.1 ^a	8.0	3.2	ug/l	
91-57-6	2-Methylnaphthalene	118 ^a	8.0	3.2	ug/l	
91-20-3	Naphthalene	84.9 ^a	8.0	3.2	ug/l	
85-01-8	Phenanthrene	0.23	0.80	0.20	ug/l	I
129-00-0	Pyrene	0.20 U	0.80	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%	50%	41-129%
321-60-8	2-Fluorobiphenyl	77%	91%	41-118%
1718-51-0	Terphenyl-d14	98%	94%	45-145%

(a) Result is from Run# 2

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 7	
Lab Sample ID:	FA51986-7	Date Sampled: 02/22/18
Matrix:	AQ - Ground Water	Date Received: 02/23/18
Method:	EPA 504.1 SW846 8011	Percent Solids: n/a
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD97839.D	1	03/01/18 21:55	NJ	03/01/18 12:00	OP68970	GDD2849
Run #2							

	Initial Volume	Final Volume
Run #1	34.8 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	PQL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.010 U	0.020	0.010	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
460-00-4	4-Bromofluorobenzene	111%		63-137%		

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 7	Date Sampled:	02/22/18
Lab Sample ID:	FA51986-7	Date Received:	02/23/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	FLORIDA-PRO SW846 3510C		
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LR03309.D	5	03/01/18 16:30	SVL	02/27/18 16:30	OP68936	GLR283
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	PQL	MDL	Units	Q
	TPH (C8-C40)	3.25	1.3	0.75	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	95%		41-146%		

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 7	Date Sampled:	02/22/18
Lab Sample ID:	FA51986-7	Date Received:	02/23/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

Total Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	17.5	5.0	1.1	ug/l	1	02/27/18	02/27/18 LM	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: MA14711
(2) Prep QC Batch: MP33393

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Report of Analysis

Client Sample ID:	MW 8	
Lab Sample ID:	FA51986-8	Date Sampled: 02/22/18
Matrix:	AQ - Ground Water	Date Received: 02/23/18
Method:	SW846 8260B	Percent Solids: n/a
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O50974.D	1	02/26/18 15:39	SP	n/a	n/a	VO1914
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	0.31 U	1.0	0.31	ug/l	
108-88-3	Toluene	0.30 U	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	0.36 U	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	0.72 U	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.23 U	1.0	0.23	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 8	Date Sampled:	02/22/18
Lab Sample ID:	FA51986-8	Date Received:	02/23/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3510C		
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R475627.D	1	03/02/18 05:50	RV	02/26/18 16:00	OP68917	SR2877
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	PQL	MDL	Units	Q
83-32-9	Acenaphthene	0.32 U	0.80	0.32	ug/l	
208-96-8	Acenaphthylene	0.32 U	0.80	0.32	ug/l	
120-12-7	Anthracene	0.20 U	0.80	0.20	ug/l	
56-55-3	Benzo(a)anthracene	0.032 U	0.16	0.032	ug/l	
50-32-8	Benzo(a)pyrene	0.032 U	0.16	0.032	ug/l	
205-99-2	Benzo(b)fluoranthene	0.032 U	0.16	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.032 U	0.16	0.032	ug/l	
207-08-9	Benzo(k)fluoranthene	0.032 U	0.16	0.032	ug/l	
218-01-9	Chrysene	0.032 U	0.16	0.032	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.032 U	0.16	0.032	ug/l	
206-44-0	Fluoranthene	0.20 U	0.80	0.20	ug/l	
86-73-7	Fluorene	0.20 U	0.80	0.20	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.032 U	0.16	0.032	ug/l	
90-12-0	1-Methylnaphthalene	0.32 U	0.80	0.32	ug/l	
91-57-6	2-Methylnaphthalene ^a	0.32 U	0.80	0.32	ug/l	
91-20-3	Naphthalene	0.32 U	0.80	0.32	ug/l	
85-01-8	Phenanthrene	0.20 U	0.80	0.20	ug/l	
129-00-0	Pyrene	0.20 U	0.80	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	86%		41-129%
321-60-8	2-Fluorobiphenyl	77%		41-118%
1718-51-0	Terphenyl-d14	93%		45-145%

(a) Associated CCV outside of control limits high, sample was ND.

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 8	Date Sampled:	02/22/18
Lab Sample ID:	FA51986-8	Date Received:	02/23/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	FLORIDA-PRO SW846 3510C		
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LR03310.D	1	03/01/18 16:51	SJL	02/27/18 16:30	OP68936	GLR283
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	PQL	MDL	Units	Q
	TPH (C8-C40)	0.15 U	0.25	0.15	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	117%		41-146%		

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW B	
Lab Sample ID:	FA51986-9	Date Sampled: 02/22/18
Matrix:	AQ - Ground Water	Date Received: 02/23/18
Method:	SW846 8260B	Percent Solids: n/a
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O50975.D	1	02/26/18 16:01	SP	n/a	n/a	VO1914
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	0.31 U	1.0	0.31	ug/l	
108-88-3	Toluene	0.30 U	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	0.36 U	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	0.72 U	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.23 U	1.0	0.23	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW B	Date Sampled:	02/22/18
Lab Sample ID:	FA51986-9	Date Received:	02/23/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3510C		
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R475628.D	1	03/02/18 06:21	RV	02/26/18 16:00	OP68917	SR2877
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	PQL	MDL	Units	Q
83-32-9	Acenaphthene	0.32 U	0.80	0.32	ug/l	
208-96-8	Acenaphthylene	0.32 U	0.80	0.32	ug/l	
120-12-7	Anthracene	0.20 U	0.80	0.20	ug/l	
56-55-3	Benzo(a)anthracene	0.032 U	0.16	0.032	ug/l	
50-32-8	Benzo(a)pyrene	0.032 U	0.16	0.032	ug/l	
205-99-2	Benzo(b)fluoranthene	0.032 U	0.16	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.032 U	0.16	0.032	ug/l	
207-08-9	Benzo(k)fluoranthene	0.032 U	0.16	0.032	ug/l	
218-01-9	Chrysene	0.032 U	0.16	0.032	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.032 U	0.16	0.032	ug/l	
206-44-0	Fluoranthene	0.20 U	0.80	0.20	ug/l	
86-73-7	Fluorene	0.20 U	0.80	0.20	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.032 U	0.16	0.032	ug/l	
90-12-0	1-Methylnaphthalene	0.32 U	0.80	0.32	ug/l	
91-57-6	2-Methylnaphthalene ^a	0.32 U	0.80	0.32	ug/l	
91-20-3	Naphthalene	0.32 U	0.80	0.32	ug/l	
85-01-8	Phenanthrene	0.20 U	0.80	0.20	ug/l	
129-00-0	Pyrene	0.20 U	0.80	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%		41-129%
321-60-8	2-Fluorobiphenyl	74%		41-118%
1718-51-0	Terphenyl-d14	91%		45-145%

(a) Associated CCV outside of control limits high, sample was ND.

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW B	Date Sampled:	02/22/18
Lab Sample ID:	FA51986-9	Date Received:	02/23/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	FLORIDA-PRO SW846 3510C		
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LR03313.D	1	03/01/18 17:54	SJL	02/27/18 16:30	OP68936	GLR283
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	PQL	MDL	Units	Q
	TPH (C8-C40)	0.15 U	0.25	0.15	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	116%		41-146%		

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

PREM
ACCUTEST

SGS Accutest Southeast

Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, FL 32811
TEL: 407-425-6700 FAX: 407-425-0707

FA51986

SGS ACCUTEST JOB # : PAGE OF

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SGS COC Florida new art 5 2 17.xls rev 042417 S

Effective Date 04/24/2017

FA51986: Chain of Custody

Page 1 of 2

SGS

38 of 74

FA51986

SGS Sample Receipt Summary

Job Number: FA51986 **Client:** ATC **Project:** JAK SERVICE CENTER
Date / Time Received: 2/23/2018 9:45:00 AM **Delivery Method:** FED EX **Airbill #s:** 1001910553310003281100789847973210

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 2
Cooler Temps (Raw Measured) °C: Cooler 1: (3.8); Cooler 2: (4.2);
Cooler Temps (Corrected) °C: Cooler 1: (4.2); Cooler 2: (4.6);

Cooler Information

	Y	or	N
1. Custody Seals Present	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Temp criteria achieved	<input checked="" type="checkbox"/>		<input type="checkbox"/>
4. Cooler temp verification	<u>IR Gun</u>		
5. Cooler media	<u>Ice (Bag)</u>		

Trip Blank Information

	Y	or	N	N/A
1. Trip Blank present / cooler	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<u>W</u>	<u>or</u>	<u>S</u>	<u>N/A</u>
3. Type Of TB Received	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Sample Information

	Y	or	N	N/A
1. Sample labels present on bottles	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Samples preserved properly	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
3. Sufficient volume/containers recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Condition of sample	<u>Intact</u>			
5. Sample recvd within HT	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
6. Dates/Times/IDs on COC match Sample Label	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
7. VOCs have headspace	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
9. Compositing instructions clear	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
10. Voa Soil Kits/Jars received past 48hrs?	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
11. % Solids Jar received?	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
12. Residual Chlorine Present?	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____
 Test Strip Lot #s: pH 0-3 _____ 230315 pH 10-12 _____ 219813A Other: (Specify) _____
 Residual Chlorine Test Strip Lot #: _____

Comments 250ml Amber Bottles received for 8270.1 Amber Bottle received instead of 2 for Extractions. SAMPLE #8 1- 250ML AND 1- 1000ML AMBER ID LABEL READS MW-A.

SM001 Technician: SHAYLAP Date: 2/23/2018 9:45:00 AM Reviewer: _____ Date: _____
 Rev. Date 05/24/17

FA51986: Chain of Custody

Page 2 of 2

MS Volatiles

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 1

Job Number: FA51986

Account: ATCFLM ATC Group Services LLC.

Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO1914-MB	O50963.D	1	02/26/18	SP	n/a	n/a	VO1914

The QC reported here applies to the following samples:

Method: SW846 8260B

FA51986-1, FA51986-4, FA51986-5, FA51986-6, FA51986-8, FA51986-9

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	106% 83-118%
17060-07-0	1,2-Dichloroethane-D4	109% 79-125%
2037-26-5	Toluene-D8	97% 85-112%
460-00-4	4-Bromofluorobenzene	102% 83-118%

Method Blank Summary

Page 1 of 2

Job Number: FA51986**Account:** ATCFLM ATC Group Services LLC.**Project:** Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB5064-MB	B125755.D	1	02/28/18	AJ	n/a	n/a	VB5064

The QC reported here applies to the following samples:**Method:** SW846 8260B

FA51986-7

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	2.1	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

Method Blank Summary

Job Number: FA51986
Account: ATCFLM ATC Group Services LLC.
Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB5064-MB	B125755.D	1	02/28/18	AJ	n/a	n/a	VB5064

The QC reported here applies to the following samples: Method: SW846 8260B

FA51986-7

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	98% 83-118%
17060-07-0	1,2-Dichloroethane-D4	102% 79-125%
2037-26-5	Toluene-D8	96% 85-112%
460-00-4	4-Bromofluorobenzene	101% 83-118%

Method Blank Summary

Page 1 of 1

Job Number: FA51986

Account: ATCFLM ATC Group Services LLC.

Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A370-MB	1A10030.D	1	03/01/18	SP	n/a	n/a	V1A370

The QC reported here applies to the following samples:

Method: SW846 8260B

FA51986-1, FA51986-2, FA51986-3

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	112% 83-118%
17060-07-0	1,2-Dichloroethane-D4	107% 79-125%
2037-26-5	Toluene-D8	99% 85-112%
460-00-4	4-Bromofluorobenzene	108% 83-118%

Blank Spike Summary

Page 1 of 1

Job Number: FA51986

Account: ATCFLM ATC Group Services LLC.

Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO1914-BS	O50962.D	1	02/26/18	SP	n/a	n/a	VO1914

The QC reported here applies to the following samples:

Method: SW846 8260B

FA51986-1, FA51986-4, FA51986-5, FA51986-6, FA51986-8, FA51986-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	27.9	112	81-122
100-41-4	Ethylbenzene	25	27.4	110	81-121
1634-04-4	Methyl Tert Butyl Ether	25	27.6	110	72-117
108-88-3	Toluene	25	27.4	110	80-120
1330-20-7	Xylene (total)	75	84.2	112	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	107%	79-125%
2037-26-5	Toluene-D8	98%	85-112%
460-00-4	4-Bromofluorobenzene	99%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Page 1 of 2

Job Number: FA51986**Account:** ATCFLM ATC Group Services LLC.**Project:** Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB5064-BS	B125754.D	1	02/28/18	AJ	n/a	n/a	VB5064

The QC reported here applies to the following samples:**Method:** SW846 8260B

FA51986-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	25.3	101	81-122
75-27-4	Bromodichloromethane	25	25.1	100	79-123
75-25-2	Bromoform	25	23.1	92	66-123
56-23-5	Carbon Tetrachloride	25	25.7	103	76-136
108-90-7	Chlorobenzene	25	24.2	97	82-124
75-00-3	Chloroethane	25	28.8	115	62-144
110-75-8	2-Chloroethyl Vinyl Ether	125	148	118	56-122
67-66-3	Chloroform	25	24.6	98	80-124
124-48-1	Dibromochloromethane	25	23.5	94	78-122
75-71-8	Dichlorodifluoromethane	25	29.6	118	42-167
95-50-1	1,2-Dichlorobenzene	25	23.0	92	82-124
541-73-1	1,3-Dichlorobenzene	25	24.0	96	84-125
106-46-7	1,4-Dichlorobenzene	25	23.2	93	78-120
75-34-3	1,1-Dichloroethane	25	26.7	107	81-122
107-06-2	1,2-Dichloroethane	25	25.3	101	75-125
75-35-4	1,1-Dichloroethylene	25	25.3	101	78-137
156-59-2	cis-1,2-Dichloroethylene	25	24.7	99	78-120
156-60-5	trans-1,2-Dichloroethylene	25	26.4	106	76-127
78-87-5	1,2-Dichloropropane	25	25.3	101	76-124
10061-01-5	cis-1,3-Dichloropropene	25	23.5	94	75-118
10061-02-6	trans-1,3-Dichloropropene	25	24.1	96	80-120
100-41-4	Ethylbenzene	25	23.8	95	81-121
74-83-9	Methyl Bromide	25	27.3	109	59-143
74-87-3	Methyl Chloride	25	29.2	117	50-159
75-09-2	Methylene Chloride	25	25.2	101	69-135
1634-04-4	Methyl Tert Butyl Ether	25	23.1	92	72-117
79-34-5	1,1,2,2-Tetrachloroethane	25	24.0	96	72-120
127-18-4	Tetrachloroethylene	25	24.6	98	76-135
108-88-3	Toluene	25	23.5	94	80-120
71-55-6	1,1,1-Trichloroethane	25	24.5	98	75-130
79-00-5	1,1,2-Trichloroethane	25	23.6	94	76-119
79-01-6	Trichloroethylene	25	25.4	102	81-126
75-69-4	Trichlorofluoromethane	25	29.6	118	71-156
75-01-4	Vinyl Chloride	25	29.1	116	69-159
1330-20-7	Xylene (total)	75	71.7	96	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA51986
Account: ATCFLM ATC Group Services LLC.
Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB5064-BS	B125754.D	1	02/28/18	AJ	n/a	n/a	VB5064

The QC reported here applies to the following samples: Method: SW846 8260B

FA51986-7

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	98%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Page 1 of 1

Job Number: FA51986

Account: ATCFLM ATC Group Services LLC.

Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A370-BS	1A10031.D	1	03/01/18	SP	n/a	n/a	V1A370

The QC reported here applies to the following samples:

Method: SW846 8260B

FA51986-1, FA51986-2, FA51986-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	23.8	95	81-122
100-41-4	Ethylbenzene	25	23.6	94	81-121
1634-04-4	Methyl Tert Butyl Ether	25	19.8	79	72-117
108-88-3	Toluene	25	24.0	96	80-120
1330-20-7	Xylene (total)	75	70.0	93	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	79-125%
2037-26-5	Toluene-D8	95%	85-112%
460-00-4	4-Bromofluorobenzene	99%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA51986
Account: ATCFLM ATC Group Services LLC.
Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA51930-1MS	O51001.D	20	02/27/18	SP	n/a	n/a	VO1914
FA51930-1MSD	O51002.D	20	02/27/18	SP	n/a	n/a	VO1914
FA51930-1	O50967.D	1	02/26/18	SP	n/a	n/a	VO1914

The QC reported here applies to the following samples: Method: SW846 8260B

FA51986-1, FA51986-4, FA51986-5, FA51986-6, FA51986-8, FA51986-9

CAS No.	Compound	FA51930-1 ug/l	Spike Q	ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	40.2		500	645	121	500	599	112	7	81-122/14
100-41-4	Ethylbenzene	357	E	500	1010	131*	500	981	125*	3	81-121/14
1634-04-4	Methyl Tert Butyl Ether	1.3		500	580	116	500	539	108	7	72-117/14
108-88-3	Toluene	619	E	500	1550	186*	500	1540	184*	1	80-120/14
1330-20-7	Xylene (total)	1170	E	1500	3390	148*	1500	3310	143*	2	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA51930-1	Limits
1868-53-7	Dibromofluoromethane	100%	100%	105%	83-118%
17060-07-0	1,2-Dichloroethane-D4	106%	104%	107%	79-125%
2037-26-5	Toluene-D8	98%	99%	103%	85-112%
460-00-4	4-Bromofluorobenzene	99%	99%	103%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: FA51986

Account: ATCFLM ATC Group Services LLC.

Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA52006-2MS	B125765.D	50	02/28/18	AJ	n/a	n/a	VB5064
FA52006-2MSD	B125766.D	50	02/28/18	AJ	n/a	n/a	VB5064
FA52006-2	B125757.D	50	02/28/18	AJ	n/a	n/a	VB5064

The QC reported here applies to the following samples:

Method: SW846 8260B

FA51986-7

CAS No.	Compound	FA52006-2 ug/l	Spike Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	28.9	J	1250	1380	108	1250	1370	107	1	81-122/14
75-27-4	Bromodichloromethane	ND		1250	1340	107	1250	1330	106	1	79-123/19
75-25-2	Bromoform	ND		1250	1100	88	1250	1070	86	3	66-123/21
56-23-5	Carbon Tetrachloride	ND		1250	1330	106	1250	1330	106	0	76-136/23
108-90-7	Chlorobenzene	ND		1250	1230	98	1250	1240	99	1	82-124/14
75-00-3	Chloroethane	791		1250	2550	141	1250	2550	141	0	62-144/20
110-75-8	2-Chloroethyl Vinyl Ether	ND		6250	6020	96	6250	5420	87	10	56-122/23
67-66-3	Chloroform	ND		1250	1360	109	1250	1310	105	4	80-124/15
124-48-1	Dibromochloromethane	ND		1250	1180	94	1250	1170	94	1	78-122/19
75-71-8	Dichlorodifluoromethane	ND		1250	1440	115	1250	1460	117	1	42-167/19
95-50-1	1,2-Dichlorobenzene	ND		1250	1220	98	1250	1200	96	2	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		1250	1240	99	1250	1250	100	1	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		1250	1250	100	1250	1220	98	2	78-120/15
75-34-3	1,1-Dichloroethane	120		1250	1570	116	1250	1570	116	0	81-122/15
107-06-2	1,2-Dichloroethane	ND		1250	1360	109	1250	1330	106	2	75-125/14
75-35-4	1,1-Dichloroethylene	ND		1250	1410	113	1250	1360	109	4	78-137/18
156-59-2	cis-1,2-Dichloroethylene	221		1250	1550	106	1250	1500	102	3	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		1250	1460	117	1250	1430	114	2	76-127/17
78-87-5	1,2-Dichloropropane	ND		1250	1360	109	1250	1340	107	1	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		1250	1310	105	1250	1260	101	4	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		1250	1260	101	1250	1220	98	3	80-120/22
100-41-4	Ethylbenzene	90.0		1250	1360	102	1250	1320	98	3	81-121/14
74-83-9	Methyl Bromide	ND		1250	1480	118	1250	1400	112	6	59-143/19
74-87-3	Methyl Chloride	ND		1250	1560	125	1250	1500	120	4	50-159/19
75-09-2	Methylene Chloride	ND		1250	1410	113	1250	1390	111	1	69-135/16
1634-04-4	Methyl Tert Butyl Ether	ND		1250	1240	99	1250	1210	97	2	72-117/14
79-34-5	1,1,2,2-Tetrachloroethane	ND		1250	1310	105	1250	1280	102	2	72-120/14
127-18-4	Tetrachloroethylene	ND		1250	1260	101	1250	1210	97	4	76-135/16
108-88-3	Toluene	1620		1250	3000	110	1250	2930	105	2	80-120/14
71-55-6	1,1,1-Trichloroethane	ND		1250	1310	105	1250	1290	103	2	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		1250	1250	100	1250	1210	97	3	76-119/14
79-01-6	Trichloroethylene	ND		1250	1350	108	1250	1320	106	2	81-126/15
75-69-4	Trichlorofluoromethane	ND		1250	1480	118	1250	1480	118	0	71-156/21
75-01-4	Vinyl Chloride	75.9		1250	1560	119	1250	1590	121	2	69-159/18
1330-20-7	Xylene (total)	453		3750	4370	104	3750	4310	103	1	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA51986
Account: ATCFLM ATC Group Services LLC.
Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA52006-2MS	B125765.D	50	02/28/18	AJ	n/a	n/a	VB5064
FA52006-2MSD	B125766.D	50	02/28/18	AJ	n/a	n/a	VB5064
FA52006-2	B125757.D	50	02/28/18	AJ	n/a	n/a	VB5064

The QC reported here applies to the following samples: Method: SW846 8260B

FA51986-7

CAS No.	Surrogate Recoveries	MS	MSD	FA52006-2	Limits
1868-53-7	Dibromofluoromethane	100%	102%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	106%	107%	105%	79-125%
2037-26-5	Toluene-D8	99%	100%	101%	85-112%
460-00-4	4-Bromofluorobenzene	102%	102%	104%	83-118%

* = Outside of Control Limits.

5.3.2
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Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA51986
Account: ATCFLM ATC Group Services LLC.
Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA51998-5MS	1A10051.D	20	03/01/18	SP	n/a	n/a	V1A370
FA51998-5MSD	1A10052.D	20	03/01/18	SP	n/a	n/a	V1A370
FA51998-5	1A10044.D	20	03/01/18	SP	n/a	n/a	V1A370

The QC reported here applies to the following samples: Method: SW846 8260B

FA51986-1, FA51986-2, FA51986-3

CAS No.	Compound	FA51998-5 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	500	499	100	500	506	101	1	81-122/14
100-41-4	Ethylbenzene	ND	500	497	99	500	497	99	0	81-121/14
1634-04-4	Methyl Tert Butyl Ether	ND	500	391	78	500	406	81	4	72-117/14
108-88-3	Toluene	ND	500	487	97	500	491	98	1	80-120/14
1330-20-7	Xylene (total)	ND	1500	1450	97	1500	1470	98	1	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA51998-5	Limits
1868-53-7	Dibromofluoromethane	103%	102%	112%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	99%	108%	79-125%
2037-26-5	Toluene-D8	91%	90%	98%	85-112%
460-00-4	4-Bromofluorobenzene	102%	102%	107%	83-118%

* = Outside of Control Limits.



MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 1

Job Number: FA51986

Account: ATCFLM ATC Group Services LLC.

Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP68917-MB	R475611.D	1	03/01/18	RV	02/26/18	OP68917	SR2877

The QC reported here applies to the following samples:

Method: SW846 8270D BY SIM

FA51986-1, FA51986-2, FA51986-3, FA51986-4, FA51986-5, FA51986-6, FA51986-7, FA51986-8, FA51986-9

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.80	0.32	ug/l	
208-96-8	Acenaphthylene	ND	0.80	0.32	ug/l	
120-12-7	Anthracene	ND	0.80	0.20	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.16	0.032	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.16	0.032	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.16	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.16	0.032	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.16	0.032	ug/l	
218-01-9	Chrysene	ND	0.16	0.032	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.16	0.032	ug/l	
206-44-0	Fluoranthene	ND	0.80	0.20	ug/l	
86-73-7	Fluorene	ND	0.80	0.20	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.16	0.032	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.80	0.32	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.80	0.32	ug/l	
91-20-3	Naphthalene	ND	0.80	0.32	ug/l	
85-01-8	Phenanthrene	ND	0.80	0.20	ug/l	
129-00-0	Pyrene	ND	0.80	0.20	ug/l	

CAS No.	Surrogate Recoveries	Limits
4165-60-0	Nitrobenzene-d5	86% 41-129%
321-60-8	2-Fluorobiphenyl	75% 41-118%
1718-51-0	Terphenyl-d14	93% 45-145%

Blank Spike Summary

Page 1 of 1

Job Number: FA51986

Account: ATCFLM ATC Group Services LLC.

Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP68917-BS	R475610.D	1	03/01/18	RV	02/26/18	OP68917	SR2877

The QC reported here applies to the following samples:

Method: SW846 8270D BY SIM

FA51986-1, FA51986-2, FA51986-3, FA51986-4, FA51986-5, FA51986-6, FA51986-7, FA51986-8, FA51986-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	8	8.1	101	54-128
208-96-8	Acenaphthylene	8	8.1	101	55-128
120-12-7	Anthracene	4	3.7	93	57-129
56-55-3	Benzo(a)anthracene	4	4.5	113	60-134
50-32-8	Benzo(a)pyrene	4	4.1	103	58-131
205-99-2	Benzo(b)fluoranthene	4	4.3	108	62-139
191-24-2	Benzo(g,h,i)perylene	4	4.7	118	48-136
207-08-9	Benzo(k)fluoranthene	4	3.9	98	60-139
218-01-9	Chrysene	4	4.5	113	64-136
53-70-3	Dibenzo(a,h)anthracene	4	5.0	125	46-131
206-44-0	Fluoranthene	8	8.4	105	59-140
86-73-7	Fluorene	8	9.7	121	55-129
193-39-5	Indeno(1,2,3-cd)pyrene	4	3.8	95	46-139
90-12-0	1-Methylnaphthalene	8	7.5	94	52-128
91-57-6	2-Methylnaphthalene	8	8.6	108	50-117
91-20-3	Naphthalene	8	7.9	99	52-124
85-01-8	Phenanthrene	8	8.7	109	60-130
129-00-0	Pyrene	8	7.9	99	53-134

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	93%	41-129%
321-60-8	2-Fluorobiphenyl	83%	41-118%
1718-51-0	Terphenyl-d14	101%	45-145%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: FA51986

Account: ATCFLM ATC Group Services LLC.

Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP68917-MS ^a	U064540.D	20	03/03/18	RV	02/26/18	OP68917	SU2816
OP68917-MSD ^a	U064541.D	20	03/03/18	RV	02/26/18	OP68917	SU2816
FA51975-3 ^a	U064539.D	20	03/02/18	RV	02/26/18	OP68917	SU2816

The QC reported here applies to the following samples:

Method: SW846 8270D BY SIM

FA51986-1, FA51986-2, FA51986-3, FA51986-4, FA51986-5, FA51986-6, FA51986-7, FA51986-8, FA51986-9

CAS No.	Compound	FA51975-3 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	16 U	16	16.7	104	16	15.5	97	7	54-128/23
208-96-8	Acenaphthylene	16 U	16	15.1	94	16	14.1	88	7	55-128/23
120-12-7	Anthracene	16 U	8	ND	0*	8	ND	0*	nc	57-129/22
56-55-3	Benzo(a)anthracene	3.2 U	8	7.5	94	8	7.0	88	7	60-134/18
50-32-8	Benzo(a)pyrene	3.2 U	8	6.2	78	8	5.7	71	8	58-131/20
205-99-2	Benzo(b)fluoranthene	3.2 U	8	6.4	80	8	5.9	74	8	62-139/21
191-24-2	Benzo(g,h,i)perylene	3.2 U	8	6.2	78	8	5.8	73	7	48-136/23
207-08-9	Benzo(k)fluoranthene	3.2 U	8	7.1	89	8	6.8	85	4	60-139/19
218-01-9	Chrysene	3.2 U	8	8.8	110	8	8.2	103	7	64-136/19
53-70-3	Dibenzo(a,h)anthracene	3.2 U	8	5.7	71	8	4.9	61	15	46-131/25
206-44-0	Fluoranthene	16 U	16	16.7	104	16	15.8	99	6	59-140/18
86-73-7	Fluorene	16 U	16	16.9	106	16	16.5	103	2	55-129/23
193-39-5	Indeno(1,2,3-cd)pyrene	3.2 U	8	5.9	74	8	5.4	68	9	46-139/24
90-12-0	1-Methylnaphthalene	26.7	16	42.5	99	16	33.3	41*	24*	52-128/22
91-57-6	2-Methylnaphthalene	39.9	16	53.1	83	16	41.7	11* ^b	24*	50-117/23
91-20-3	Naphthalene	163	16	174	69	16	131	-200* ^b	28*	52-124/23
85-01-8	Phenanthrene	16 U	16	17.2	108	16	16.5	103	4	60-130/22
129-00-0	Pyrene	16 U	16	17.4	109	16	16.1	101	8	53-134/18

CAS No.	Surrogate Recoveries	MS	MSD	FA51975-3	Limits
4165-60-0	Nitrobenzene-d5	0% * ^c	0% * ^c	0% * ^c	41-129%
321-60-8	2-Fluorobiphenyl	0% * ^c	0% * ^c	0% * ^c	41-118%
1718-51-0	Terphenyl-d14	0% * ^c	0% * ^c	0% * ^c	45-145%

(a) Dilution required due to matrix interference (internal standard failure).

(b) Outside control limits due to high level in sample relative to spike amount.

(c) Outside control limits due to dilution.

* = Outside of Control Limits.

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA51986
Account: ATCFLM ATC Group Services LLC.
Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP68970-MB	DD97836.D	1	03/01/18	NJ	03/01/18	OP68970	GDD2849

The QC reported here applies to the following samples: Method: EPA 504.1

FA51986-7

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	0.010	ug/l	

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	88% 63-137%

7.1.1
7

Blank Spike Summary

Job Number: FA51986
Account: ATCFLM ATC Group Services LLC.
Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP68970-BS	DD97835.D	1	03/01/18	NJ	03/01/18	OP68970	GDD2849

The QC reported here applies to the following samples: Method: EPA 504.1

FA51986-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
106-93-4	1,2-Dibromoethane	0.25	0.24	96	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	89%	63-137%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA51986
Account: ATCFLM ATC Group Services LLC.
Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP68970-MS	DD97840.D	1	03/01/18	NJ	03/01/18	OP68970	GDD2849
OP68970-MSD	DD97841.D	1	03/01/18	NJ	03/01/18	OP68970	GDD2849
FA51986-7	DD97839.D	1	03/01/18	NJ	03/01/18	OP68970	GDD2849

The QC reported here applies to the following samples: Method: EPA 504.1

FA51986-7

CAS No.	Compound	FA51986-7 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
106-93-4	1,2-Dibromoethane	0.020 U	0.244	0.27	110	0.25	0.27	108	0	70-130/25

CAS No.	Surrogate Recoveries	MS	MSD	FA51986-7	Limits
460-00-4	4-Bromofluorobenzene	120%	114%	111%	63-137%

* = Outside of Control Limits.



Orlando, FL

Section 8

GC/LC Semi-volatiles

QC Data Summaries



Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA51986
Account: ATCFLM ATC Group Services LLC.
Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP68927-MB	LR03237.D	1	02/28/18	SJL	02/27/18	OP68927	GLR283

The QC reported here applies to the following samples: Method: FLORIDA-PRO

FA51986-1, FA51986-2, FA51986-3, FA51986-4

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	ND	0.25	0.15	mg/l	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	100% 41-146%

8.1.1
8

Method Blank Summary

Job Number: FA51986
Account: ATCFLM ATC Group Services LLC.
Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP68936-MB	LR03302.D	1	03/01/18	SJL	02/27/18	OP68936	GLR283

The QC reported here applies to the following samples: Method: FLORIDA-PRO

FA51986-5, FA51986-6, FA51986-7, FA51986-8, FA51986-9

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	ND	0.25	0.15	mg/l	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	114% 41-146%

8.1.2
8

Blank Spike Summary

Job Number: FA51986
Account: ATCFLM ATC Group Services LLC.
Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP68927-BS	LR03236.D	1	02/28/18	SJL	02/27/18	OP68927	GLR283

The QC reported here applies to the following samples: Method: FLORIDA-PRO

FA51986-1, FA51986-2, FA51986-3, FA51986-4

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C8-C40)	0.85	0.950	112	51-121

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	131%	41-146%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA51986
Account: ATCFLM ATC Group Services LLC.
Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP68936-BS	LR03301.D	1	03/01/18	SJL	02/27/18	OP68936	GLR283

The QC reported here applies to the following samples: Method: FLORIDA-PRO

FA51986-5, FA51986-6, FA51986-7, FA51986-8, FA51986-9

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C8-C40)	0.85	0.801	94	51-121

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	122%	41-146%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: FA51986

Account: ATCFLM ATC Group Services LLC.

Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP68927-MS	LR03241.D	1	02/28/18	SJL	02/27/18	OP68927	GLR283
OP68927-MSD	LR03242.D	1	02/28/18	SJL	02/27/18	OP68927	GLR283
FA51939-3	LR03291.D	2	03/01/18	SJL	02/27/18	OP68927	GLR283

The QC reported here applies to the following samples:

Method: FLORIDA-PRO

FA51986-1, FA51986-2, FA51986-3, FA51986-4

CAS No.	Compound	FA51939-3 mg/l	Spike Q mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH (C8-C40)	3.82	1.63	5.31	91	1.63	6.68	175* a	23 b	51-121/29

CAS No.	Surrogate Recoveries	MS	MSD	FA51939-3	Limits
84-15-1	o-Terphenyl	126%	135%	116%	41-146%

(a) Outside control limits due to high level in sample relative to spike amount.

(b) Outside control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA51986
Account: ATCFLM ATC Group Services LLC.
Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP68936-MS	LR03315.D	1	03/01/18	SJL	02/27/18	OP68936	GLR283
OP68936-MSD	LR03316.D	1	03/01/18	SJL	02/27/18	OP68936	GLR283
FA52032-3	LR03332.D	4	03/02/18	SJL	02/27/18	OP68936	GLR284

The QC reported here applies to the following samples: Method: FLORIDA-PRO

FA51986-5, FA51986-6, FA51986-7, FA51986-8, FA51986-9

CAS No.	Compound	FA52032-3 mg/l	Spike Q mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH (C8-C40)	4.59	1.7	4.51	-5* a	1.7	4.79	12* a	6	51-121/29

CAS No.	Surrogate Recoveries	MS	MSD	FA52032-3	Limits
84-15-1	o-Terphenyl	101%	110%	76%	41-146%

(a) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Metals Analysis

QC Data Summaries

6

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA51986
Account: ATCFLM - ATC Group Services LLC.
Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

QC Batch ID: MP33393
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/27/18

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	14	14		
Antimony	6.0	1	1		
Arsenic	10	1.3	1.3		
Barium	200	1	1		
Beryllium	4.0	.2	.2		
Cadmium	5.0	.2	.2		
Calcium	1000	50	50		
Chromium	10	1	1		
Cobalt	50	.2	.2		
Copper	25	1	1		
Iron	300	17	17		
Lead	5.0	1	1.1	-0.10	<5.0
Magnesium	5000	35	35		
Manganese	15	.5	1		
Molybdenum	50	.3	.3		
Nickel	40	.4	.4		
Potassium	10000	200	200		
Selenium	10	2.4	2.9		
Silver	10	.7	.7		
Sodium	10000	500	500		
Strontium	10	.5	.5		
Thallium	10	1.1	1.4		
Tin	50	.9	1		
Titanium	10	.5	1		
Vanadium	50	.5	.6		
Zinc	20	3	4.4		

Associated samples MP33393: FA51986-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA51986
 Account: ATCFLM - ATC Group Services LLC.
 Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

QC Batch ID: MP33393
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date:

02/27/18

02/27/18

Metal	FA51986-7 Original	DUP	RPD	QC Limits	FA51986-7 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic	anr								
Barium									
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	17.5	18.1	3.4	0-20	17.5	510	500	98.5	80-120
Magnesium									
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium									
Selenium									
Silver	anr								
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

Associated samples MP33393: FA51986-7

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA51986
 Account: ATCFLM - ATC Group Services LLC.
 Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

QC Batch ID: MP33393
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 02/27/18

Metal	FA51986-7 Original MSD	Spikelot MPFLICP2 % Rec	MSD RPD	QC Limit
Aluminum				
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron	anr			
Lead	17.5	509	500	98.3
Magnesium			0.2	20
Manganese	anr			
Molybdenum	anr			
Nickel	anr			
Potassium				
Selenium				
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP33393: FA51986-7

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA51986
 Account: ATCFLM - ATC Group Services LLC.
 Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

QC Batch ID: MP33393
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 02/27/18

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron	anr			
Lead	493	500	98.6	80-120
Magnesium				
Manganese	anr			
Molybdenum	anr			
Nickel	anr			
Potassium				
Selenium				
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP33393: FA51986-7

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA51986
 Account: ATCFLM - ATC Group Services LLC.
 Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

QC Batch ID: MP33393
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 02/27/18

Metal	FA51986-7 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron	anr			
Lead	17.5	21.1	20.6 (a)	0-10
Magnesium				
Manganese	anr			
Molybdenum	anr			
Nickel	anr			
Potassium				
Selenium				
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP33393: FA51986-7

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: FA51986
 Account: ATCFLM - ATC Group Services LLC.
 Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

QC Batch ID: MP33393
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date:

02/27/18

Metal	Sample ml	Final ml	FA51986-7 Raw	PS Corr.** ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	9.8	10	17.5	17.15	63.7	0.2	2.5	50	93.1 80-120
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP33393: FA51986-7

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (**) Corr. sample result = Raw * (sample volume / final volume)
 (anr) Analyte not requested

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

ATC Group Services LLC.

Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Z101430699

SGS Job Number: FA54762

Sampling Date: 06/05/18

Report to:

**ATC Group Services LLC.
9955 NW 116th Way Suite 1
Miami, FL 33178
dwight.schwendeman@atcassociates.com**

ATTN: Dwight Schwendeman

Total number of pages in report: 55



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

**Caitlin Brice, M.S.
General Manager**

Client Service contact: Muna Mohammed 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),
AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Summary of Hits	4
Section 3: Sample Results	5
3.1: FA54762-1: SB 3	6
3.2: FA54762-2: SB 4	10
3.3: FA54762-3: SB 2	14
3.4: FA54762-4: SB 1	18
3.5: FA54762-5: SB 5	22
Section 4: Misc. Forms	27
4.1: Chain of Custody	28
Section 5: MS Volatiles - QC Data Summaries	30
5.1: Method Blank Summary	31
5.2: Blank Spike Summary	33
5.3: Matrix Spike/Matrix Spike Duplicate Summary	35
Section 6: MS Semi-volatiles - QC Data Summaries	37
6.1: Method Blank Summary	38
6.2: Blank Spike Summary	40
6.3: Matrix Spike/Matrix Spike Duplicate Summary	43
Section 7: GC/LC Semi-volatiles - QC Data Summaries	45
7.1: Method Blank Summary	46
7.2: Blank Spike Summary	47
7.3: Matrix Spike/Matrix Spike Duplicate Summary	48
Section 8: Metals Analysis - QC Data Summaries	49
8.1: Prep QC MP33856: Pb	50



Sample Summary

ATC Group Services LLC.

Job No: FA54762

Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL
Project No: Z101430699

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FA54762-1	06/05/18	09:25 LR	06/06/18	SO	Soil	SB 3
FA54762-2	06/05/18	09:55 LR	06/06/18	SO	Soil	SB 4
FA54762-3	06/05/18	10:20 LR	06/06/18	SO	Soil	SB 2
FA54762-4	06/05/18	10:40 LR	06/06/18	SO	Soil	SB 1
FA54762-5	06/05/18	11:05 LR	06/06/18	SO	Soil	SB 5

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Page 1 of 1

Job Number: FA54762
 Account: ATC Group Services LLC.
 Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL
 Collected: 06/05/18

Lab Sample ID	Client Sample ID	Result/ Qual	PQL	MDL	Units	Method
---------------	------------------	-----------------	-----	-----	-------	--------

FA54762-1 SB 3

Benzo(a)pyrene Equivalents ^a	0.060				mg/kg	SW846 8270D BY SIM
Benzo(a)anthracene	52.5	14	3.5		ug/kg	SW846 8270D BY SIM
Benzo(a)pyrene	44.7	14	3.5		ug/kg	SW846 8270D BY SIM
Benzo(b)fluoranthene	44.4	14	3.5		ug/kg	SW846 8270D BY SIM
Benzo(g,h,i)perylene	38.3	14	3.5		ug/kg	SW846 8270D BY SIM
Benzo(k)fluoranthene	43.8	14	3.5		ug/kg	SW846 8270D BY SIM
Chrysene	65.3	14	3.5		ug/kg	SW846 8270D BY SIM
Fluoranthene	116	70	17		ug/kg	SW846 8270D BY SIM
Indeno(1,2,3-cd)pyrene	36.1	14	3.5		ug/kg	SW846 8270D BY SIM
Phenanthrene	29.5 I	70	17		ug/kg	SW846 8270D BY SIM
Pyrene	90.8	70	17		ug/kg	SW846 8270D BY SIM
TPH (C8-C40)	9.07	8.9	5.3		mg/kg	FLORIDA-PRO

FA54762-2 SB 4

Xylene (total)	1.2 I	8.5	1.2		ug/kg	SW846 8260B
TPH (C8-C40)	9.12 I	9.3	5.6		mg/kg	FLORIDA-PRO

FA54762-3 SB 2

No hits reported in this sample.

FA54762-4 SB 1

No hits reported in this sample.

FA54762-5 SB 5

Lead ^b	4.0 I	4.9	0.25		mg/kg	SW846 6010C
-------------------	-------	-----	------	--	-------	-------------

(a) Total Benzo(a)pyrene Equivalents calculated as per FDEP Conversion Table [Revised 11-26-07]

(b) Sample dilution required due to difficult matrix.



Orlando, FL

Section 3



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SB 3	Date Sampled:	06/05/18
Lab Sample ID:	FA54762-1	Date Received:	06/06/18
Matrix:	SO - Soil	Percent Solids:	93.5
Method:	SW846 8260B		
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B8811.D	1	06/07/18 16:27	SP	n/a	n/a	V2B333
Run #2							

Run #	Initial Weight	Final Volume
Run #1	4.81 g	5.0 ml
Run #2		

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	1.4 U	5.6	1.4	ug/kg	
108-88-3	Toluene	1.1 U	5.6	1.1	ug/kg	
100-41-4	Ethylbenzene	1.1 U	5.6	1.1	ug/kg	
1330-20-7	Xylene (total)	2.3 U	17	2.3	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.1 U	5.6	1.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	53% ^a		75-124%
17060-07-0	1,2-Dichloroethane-D4	118%		72-135%
2037-26-5	Toluene-D8	103%		75-126%
460-00-4	4-Bromofluorobenzene	99%		71-133%

(a) Outside control limits due to matrix interference (high pH).

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB 3	Date Sampled:	06/05/18
Lab Sample ID:	FA54762-1	Date Received:	06/06/18
Matrix:	SO - Soil	Percent Solids:	93.5
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8H03229.D	1	06/11/18 14:53	FS	06/11/18 08:38	OP70433	S8H126
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.3 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	PQL	MDL	Units	Q
83-32-9	Acenaphthene	28 U	70	28	ug/kg	
208-96-8	Acenaphthylene	28 U	70	28	ug/kg	
120-12-7	Anthracene	17 U	70	17	ug/kg	
56-55-3	Benzo(a)anthracene	52.5	14	3.5	ug/kg	
50-32-8	Benzo(a)pyrene	44.7	14	3.5	ug/kg	
205-99-2	Benzo(b)fluoranthene	44.4	14	3.5	ug/kg	
191-24-2	Benzo(g,h,i)perylene	38.3	14	3.5	ug/kg	
207-08-9	Benzo(k)fluoranthene	43.8	14	3.5	ug/kg	
218-01-9	Chrysene	65.3	14	3.5	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	3.5 U	14	3.5	ug/kg	
206-44-0	Fluoranthene	116	70	17	ug/kg	
86-73-7	Fluorene	28 U	70	28	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	36.1	14	3.5	ug/kg	
90-12-0	1-Methylnaphthalene	28 U	70	28	ug/kg	
91-57-6	2-Methylnaphthalene	28 U	70	28	ug/kg	
91-20-3	Naphthalene	28 U	70	28	ug/kg	
85-01-8	Phenanthrene	29.5	70	17	ug/kg	I
129-00-0	Pyrene	90.8	70	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%		40-105%
321-60-8	2-Fluorobiphenyl	82%		43-107%
1718-51-0	Terphenyl-d14	94%		45-119%

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

3.1
3

Client Sample ID: SB 3							
Lab Sample ID: FA54762-1				Date Sampled: 06/05/18			
Matrix: SO - Soil				Date Received: 06/06/18			
Method: SW846 8270D BY SIM				Percent Solids: 93.5			
Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL							

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1		1	06/11/18 14:53	FS	n/a	n/a	R45799
Run #2							

CAS No.	Compound	Result	PQL	Units	Q
	Benzo(a)pyrene Equivalents ^a	0.060		mg/kg	

(a) Total Benzo(a)pyrene Equivalents calculated as per FDEP Conversion Table [Revised 11-26-07]

U = Not detected

PQL = Practical Quantitation Limit

L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

J = Estimated value

Report of Analysis

Client Sample ID:	SB 3	
Lab Sample ID:	FA54762-1	Date Sampled: 06/05/18
Matrix:	SO - Soil	Date Received: 06/06/18
Method:	FLORIDA-PRO SW846 3550C	Percent Solids: 93.5
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YR18456.D	1	06/11/18 18:39	SJL	06/07/18 11:50	OP70393	GYR414
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	PQL	MDL	Units	Q
	TPH (C8-C40)	9.07	8.9	5.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	103%		52-133%		

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB 4	Date Sampled:	06/05/18
Lab Sample ID:	FA54762-2	Date Received:	06/06/18
Matrix:	SO - Soil	Percent Solids:	89.7
Method:	SW846 8260B		
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B8812.D	1	06/07/18 16:51	SP	n/a	n/a	V2B333
Run #2							

Run #	Initial Weight	Final Volume
Run #1	9.82 g	5.0 ml
Run #2		

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	0.69 U	2.8	0.69	ug/kg	
108-88-3	Toluene	0.57 U	2.8	0.57	ug/kg	
100-41-4	Ethylbenzene	0.57 U	2.8	0.57	ug/kg	
1330-20-7	Xylene (total)	1.2	8.5	1.2	ug/kg	I
1634-04-4	Methyl Tert Butyl Ether	0.57 U	2.8	0.57	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		75-124%
17060-07-0	1,2-Dichloroethane-D4	113%		72-135%
2037-26-5	Toluene-D8	108%		75-126%
460-00-4	4-Bromofluorobenzene	115%		71-133%

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB 4	Date Sampled:	06/05/18
Lab Sample ID:	FA54762-2	Date Received:	06/06/18
Matrix:	SO - Soil	Percent Solids:	89.7
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8H03181.D	1	06/07/18 21:17	FS	06/07/18 09:00	OP70388	S8H124
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.4 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	PQL	MDL	Units	Q
83-32-9	Acenaphthene	29 U	72	29	ug/kg	
208-96-8	Acenaphthylene	29 U	72	29	ug/kg	
120-12-7	Anthracene	18 U	72	18	ug/kg	
56-55-3	Benzo(a)anthracene	3.6 U	14	3.6	ug/kg	
50-32-8	Benzo(a)pyrene	3.6 U	14	3.6	ug/kg	
205-99-2	Benzo(b)fluoranthene	3.6 U	14	3.6	ug/kg	
191-24-2	Benzo(g,h,i)perylene ^a	3.6 U	14	3.6	ug/kg	
207-08-9	Benzo(k)fluoranthene ^b	3.6 U	14	3.6	ug/kg	
218-01-9	Chrysene ^a	3.6 U	14	3.6	ug/kg	
53-70-3	Dibenzo(a,h)anthracene ^a	3.6 U	14	3.6	ug/kg	
206-44-0	Fluoranthene	18 U	72	18	ug/kg	
86-73-7	Fluorene	29 U	72	29	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene ^a	3.6 U	14	3.6	ug/kg	
90-12-0	1-Methylnaphthalene	29 U	72	29	ug/kg	
91-57-6	2-Methylnaphthalene	29 U	72	29	ug/kg	
91-20-3	Naphthalene	29 U	72	29	ug/kg	
85-01-8	Phenanthrene	18 U	72	18	ug/kg	
129-00-0	Pyrene	18 U	72	18	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	94%		40-105%
321-60-8	2-Fluorobiphenyl	101%		43-107%
1718-51-0	Terphenyl-d14	109%		45-119%

(a) Associated BS outside control limits high. Sample was ND.

(b) Associated BS recovery outside control limits.

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB 4	
Lab Sample ID:	FA54762-2	Date Sampled: 06/05/18
Matrix:	SO - Soil	Date Received: 06/06/18
Method:	SW846 8270D BY SIM	Percent Solids: 89.7
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1		1	06/07/18 21:17	FS	n/a	n/a	R45783
Run #2							

CAS No.	Compound	Result	PQL	Units	Q
	Benzo(a)pyrene Equivalents ^a	NC		mg/kg	

(a) Total Benzo(a)pyrene Equivalents calculated as per FDEP Conversion Table [Revised 11-26-07]

U = Not detected
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB 4						
Lab Sample ID:	FA54762-2					Date Sampled:	06/05/18
Matrix:	SO - Soil					Date Received:	06/06/18
Method:	FLORIDA-PRO SW846 3550C					Percent Solids:	89.7
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YR18457.D	1	06/11/18 18:54	SJL	06/07/18 11:50	OP70393	GYR414
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	PQL	MDL	Units	Q
	TPH (C8-C40)	9.12	9.3	5.6	mg/kg	I
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	109%		52-133%		

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB 2	Date Sampled:	06/05/18
Lab Sample ID:	FA54762-3	Date Received:	06/06/18
Matrix:	SO - Soil	Percent Solids:	85.6
Method:	SW846 8260B		
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C1154.D	1	06/07/18 19:16	SP	n/a	n/a	V3C48
Run #2							

Run #	Initial Weight	Final Volume
Run #1	6.60 g	5.0 ml
Run #2		

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	1.1 U	4.4	1.1	ug/kg	
108-88-3	Toluene	0.89 U	4.4	0.89	ug/kg	
100-41-4	Ethylbenzene	0.89 U	4.4	0.89	ug/kg	
1330-20-7	Xylene (total)	1.9 U	13	1.9	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	0.89 U	4.4	0.89	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		75-124%
17060-07-0	1,2-Dichloroethane-D4	116%		72-135%
2037-26-5	Toluene-D8	107%		75-126%
460-00-4	4-Bromofluorobenzene	96%		71-133%

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB 2	Date Sampled:	06/05/18
Lab Sample ID:	FA54762-3	Date Received:	06/06/18
Matrix:	SO - Soil	Percent Solids:	85.6
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8H03182.D	1	06/07/18 21:40	FS	06/07/18 09:00	OP70388	S8H124
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.1 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	PQL	MDL	Units	Q
83-32-9	Acenaphthene	31 U	77	31	ug/kg	
208-96-8	Acenaphthylene	31 U	77	31	ug/kg	
120-12-7	Anthracene	19 U	77	19	ug/kg	
56-55-3	Benzo(a)anthracene	3.9 U	15	3.9	ug/kg	
50-32-8	Benzo(a)pyrene	3.9 U	15	3.9	ug/kg	
205-99-2	Benzo(b)fluoranthene	3.9 U	15	3.9	ug/kg	
191-24-2	Benzo(g,h,i)perylene ^a	3.9 U	15	3.9	ug/kg	
207-08-9	Benzo(k)fluoranthene ^a	3.9 U	15	3.9	ug/kg	
218-01-9	Chrysene ^a	3.9 U	15	3.9	ug/kg	
53-70-3	Dibenzo(a,h)anthracene ^a	3.9 U	15	3.9	ug/kg	
206-44-0	Fluoranthene	19 U	77	19	ug/kg	
86-73-7	Fluorene	31 U	77	31	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene ^a	3.9 U	15	3.9	ug/kg	
90-12-0	1-Methylnaphthalene	31 U	77	31	ug/kg	
91-57-6	2-Methylnaphthalene	31 U	77	31	ug/kg	
91-20-3	Naphthalene	31 U	77	31	ug/kg	
85-01-8	Phenanthrene	19 U	77	19	ug/kg	
129-00-0	Pyrene	19 U	77	19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	88%		40-105%
321-60-8	2-Fluorobiphenyl	92%		43-107%
1718-51-0	Terphenyl-d14	104%		45-119%

(a) Associated BS outside control limits high. Sample was ND.

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB 2	
Lab Sample ID:	FA54762-3	Date Sampled: 06/05/18
Matrix:	SO - Soil	Date Received: 06/06/18
Method:	SW846 8270D BY SIM	Percent Solids: 85.6
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1		1	06/07/18 21:40	FS	n/a	n/a	R45784
Run #2							

CAS No.	Compound	Result	PQL	Units	Q
	Benzo(a)pyrene Equivalents ^a	NC		mg/kg	

(a) Total Benzo(a)pyrene Equivalents calculated as per FDEP Conversion Table [Revised 11-26-07]

U = Not detected
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB 2	
Lab Sample ID:	FA54762-3	Date Sampled: 06/05/18
Matrix:	SO - Soil	Date Received: 06/06/18
Method:	FLORIDA-PRO SW846 3550C	Percent Solids: 85.6
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YR18458.D	1	06/11/18 19:10	SJL	06/07/18 11:50	OP70393	GYR414
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

CAS No.	Compound	Result	PQL	MDL	Units	Q
	TPH (C8-C40)	5.7 U	9.6	5.7	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	95%		52-133%		

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB 1	Date Sampled:	06/05/18
Lab Sample ID:	FA54762-4	Date Received:	06/06/18
Matrix:	SO - Soil	Percent Solids:	80.1
Method:	SW846 8260B		
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B8814.D	1	06/07/18 17:38	SP	n/a	n/a	V2B333
Run #2							

Run #	Initial Weight	Final Volume
Run #1	4.11 g	5.0 ml
Run #2		

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	1.9 U	7.6	1.9	ug/kg	
108-88-3	Toluene	1.5 U	7.6	1.5	ug/kg	
100-41-4	Ethylbenzene	1.5 U	7.6	1.5	ug/kg	
1330-20-7	Xylene (total)	3.2 U	23	3.2	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.5 U	7.6	1.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		75-124%
17060-07-0	1,2-Dichloroethane-D4	113%		72-135%
2037-26-5	Toluene-D8	105%		75-126%
460-00-4	4-Bromofluorobenzene	97%		71-133%

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB 1	Date Sampled:	06/05/18
Lab Sample ID:	FA54762-4	Date Received:	06/06/18
Matrix:	SO - Soil	Percent Solids:	80.1
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8H03183.D	1	06/07/18 22:03	FS	06/07/18 09:00	OP70388	S8H124
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.4 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	PQL	MDL	Units	Q
83-32-9	Acenaphthene	32 U	81	32	ug/kg	
208-96-8	Acenaphthylene	32 U	81	32	ug/kg	
120-12-7	Anthracene	20 U	81	20	ug/kg	
56-55-3	Benzo(a)anthracene	4.1 U	16	4.1	ug/kg	
50-32-8	Benzo(a)pyrene	4.1 U	16	4.1	ug/kg	
205-99-2	Benzo(b)fluoranthene	4.1 U	16	4.1	ug/kg	
191-24-2	Benzo(g,h,i)perylene ^a	4.1 U	16	4.1	ug/kg	
207-08-9	Benzo(k)fluoranthene ^a	4.1 U	16	4.1	ug/kg	
218-01-9	Chrysene ^a	4.1 U	16	4.1	ug/kg	
53-70-3	Dibenzo(a,h)anthracene ^a	4.1 U	16	4.1	ug/kg	
206-44-0	Fluoranthene	20 U	81	20	ug/kg	
86-73-7	Fluorene	32 U	81	32	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene ^a	4.1 U	16	4.1	ug/kg	
90-12-0	1-Methylnaphthalene	32 U	81	32	ug/kg	
91-57-6	2-Methylnaphthalene	32 U	81	32	ug/kg	
91-20-3	Naphthalene	32 U	81	32	ug/kg	
85-01-8	Phenanthrene	20 U	81	20	ug/kg	
129-00-0	Pyrene	20 U	81	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	92%		40-105%
321-60-8	2-Fluorobiphenyl	96%		43-107%
1718-51-0	Terphenyl-d14	111%		45-119%

(a) Associated BS outside control limits high. Sample was ND.

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB 1			
Lab Sample ID:	FA54762-4	Date Sampled:	06/05/18
Matrix:	SO - Soil	Date Received:	06/06/18
Method:	SW846 8270D BY SIM	Percent Solids:	80.1
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1		1	06/07/18 22:03	FS	n/a	n/a	R45785
Run #2							

CAS No.	Compound	Result	PQL	Units	Q
	Benzo(a)pyrene Equivalents ^a	NC		mg/kg	

(a) Total Benzo(a)pyrene Equivalents calculated as per FDEP Conversion Table [Revised 11-26-07]

U = Not detected

PQL = Practical Quantitation Limit

L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

J = Estimated value

Report of Analysis

Client Sample ID:	SB 1	Date Sampled:	06/05/18
Lab Sample ID:	FA54762-4	Date Received:	06/06/18
Matrix:	SO - Soil	Percent Solids:	80.1
Method:	FLORIDA-PRO SW846 3550C		
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YR18459.D	1	06/11/18 19:26	SJL	06/07/18 11:50	OP70393	GYR414
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	PQL	MDL	Units	Q
	TPH (C8-C40)	6.2 U	10	6.2	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	97%		52-133%		

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB 5	Date Sampled:	06/05/18
Lab Sample ID:	FA54762-5	Date Received:	06/06/18
Matrix:	SO - Soil	Percent Solids:	90.6
Method:	SW846 8260B		
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B8815.D	1	06/07/18 18:02	SP	n/a	n/a	V2B333
Run #2							

Run #	Initial Weight	Final Volume
Run #1	8.21 g	5.0 ml
Run #2		

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	0.82 U	3.4	0.82	ug/kg	
108-88-3	Toluene	0.67 U	3.4	0.67	ug/kg	
100-41-4	Ethylbenzene	0.67 U	3.4	0.67	ug/kg	
1330-20-7	Xylene (total)	1.4 U	10	1.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	0.67 U	3.4	0.67	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		75-124%
17060-07-0	1,2-Dichloroethane-D4	119%		72-135%
2037-26-5	Toluene-D8	103%		75-126%
460-00-4	4-Bromofluorobenzene	98%		71-133%

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB 5	Date Sampled:	06/05/18
Lab Sample ID:	FA54762-5	Date Received:	06/06/18
Matrix:	SO - Soil	Percent Solids:	90.6
Method:	SW846 8270D BY SIM SW846 3546		
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8H03184.D	1	06/07/18 22:27	FS	06/07/18 09:00	OP70388	S8H124
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.5 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	PQL	MDL	Units	Q
83-32-9	Acenaphthene	28 U	71	28	ug/kg	
208-96-8	Acenaphthylene	28 U	71	28	ug/kg	
120-12-7	Anthracene	18 U	71	18	ug/kg	
56-55-3	Benzo(a)anthracene	3.6 U	14	3.6	ug/kg	
50-32-8	Benzo(a)pyrene	3.6 U	14	3.6	ug/kg	
205-99-2	Benzo(b)fluoranthene	3.6 U	14	3.6	ug/kg	
191-24-2	Benzo(g,h,i)perylene ^a	3.6 U	14	3.6	ug/kg	
207-08-9	Benzo(k)fluoranthene ^a	3.6 U	14	3.6	ug/kg	
218-01-9	Chrysene ^a	3.6 U	14	3.6	ug/kg	
53-70-3	Dibenzo(a,h)anthracene ^a	3.6 U	14	3.6	ug/kg	
206-44-0	Fluoranthene	18 U	71	18	ug/kg	
86-73-7	Fluorene	28 U	71	28	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene ^a	3.6 U	14	3.6	ug/kg	
90-12-0	1-Methylnaphthalene	28 U	71	28	ug/kg	
91-57-6	2-Methylnaphthalene	28 U	71	28	ug/kg	
91-20-3	Naphthalene	28 U	71	28	ug/kg	
85-01-8	Phenanthrene	18 U	71	18	ug/kg	
129-00-0	Pyrene	18 U	71	18	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	95%		40-105%
321-60-8	2-Fluorobiphenyl	100%		43-107%
1718-51-0	Terphenyl-d14	115%		45-119%

(a) Associated BS outside control limits high. Sample was ND.

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB 5	
Lab Sample ID:	FA54762-5	Date Sampled: 06/05/18
Matrix:	SO - Soil	Date Received: 06/06/18
Method:	SW846 8270D BY SIM	Percent Solids: 90.6
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1		1	06/07/18 22:27	FS	n/a	n/a	R45782
Run #2							

CAS No.	Compound	Result	PQL	Units	Q
	Benzo(a)pyrene Equivalents ^a	NC		mg/kg	

(a) Total Benzo(a)pyrene Equivalents calculated as per FDEP Conversion Table [Revised 11-26-07]

U = Not detected
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB 5	
Lab Sample ID:	FA54762-5	Date Sampled: 06/05/18
Matrix:	SO - Soil	Date Received: 06/06/18
Method:	FLORIDA-PRO SW846 3550C	Percent Solids: 90.6
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YR18460.D	1	06/11/18 19:41	SJL	06/07/18 11:50	OP70393	GYR414
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	PQL	MDL	Units	Q
	TPH (C8-C40)	5.5 U	9.1	5.5	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	101%		52-133%		

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB 5	Date Sampled:	06/05/18
Lab Sample ID:	FA54762-5	Date Received:	06/06/18
Matrix:	SO - Soil	Percent Solids:	90.6
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead ^a	4.0 I	4.9	0.25	mg/kg	5	06/08/18	06/08/18 LM	SW846 6010C ¹	SW846 3050B ²

(1) Instrument QC Batch: MA14960

(2) Prep QC Batch: MP33856

(a) Sample dilution required due to difficult matrix.

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

[illegible]

SGS Sample Receipt Summary

Job Number: FA54762

Client: ATC

Project: 6900 SW 8TH ST.

Date / Time Received: 6/6/2018 9:00:00 AM

Delivery Method: FED EX

Airbill #s: 1001910510760003281100781282184622

Therm ID: IR 1;

Therm CF: 0.4;

of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (1.2);

Cooler Temps (Corrected) °C: Cooler 1: (1.6);

Cooler Information

Y or N

- | | | |
|-----------------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Temp criteria achieved | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. Cooler temp verification | <u>IR Gun</u> | |
| 5. Cooler media | <u>Ice (Bag)</u> | |

Trip Blank Information

Y or N N/A

- | | | | |
|--------------------------------|--------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | <u>W or S</u> | <u>N/A</u> | |
| 3. Type Of TB Received | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Sample Information

Y or N N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Sample labels present on bottles | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Samples preserved properly | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3. Sufficient volume/containers recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Condition of sample | <u>Intact</u> | | |
| 5. Sample recvd within HT | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 6. Dates/Times/IDs on COC match Sample Label | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 7. VOCs have headspace | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 9. Compositing instructions clear | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10. Voa Soil Kits/Jars received past 48hrs? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11. % Solids Jar received? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 12. Residual Chlorine Present? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Misc. Information

Number of Encores: 25-Gram 5 5-Gram _____
 Test Strip Lot #s: pH 0-3 230315
 Residual Chlorine Test Strip Lot #: _____

Number of 5035 Field Kits: 5
 pH 10-12 219813A

Number of Lab Filtered Metals: _____
 Other: (Specify) _____

Comments

SM001
Rev. Date 05/24/17

Technician: SHAYLAP

Date: 6/6/2018 9:00:00 AM

Reviewer: BR

Date: 6/6/2018

FA54762: Chain of Custody

Page 2 of 2

MS Volatiles

5

QC Data Summaries

Includes the following where applicable:

- **Method Blank Summaries**
- **Blank Spike Summaries**
- **Matrix Spike and Duplicate Summaries**

Method Blank Summary

Page 1 of 1

Job Number: FA54762

Account: ATCFLM ATC Group Services LLC.

Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B333-MB	2B8804.D	1	06/07/18	SP	n/a	n/a	V2B333

The QC reported here applies to the following samples:

Method: SW846 8260B

FA54762-1, FA54762-2, FA54762-4, FA54762-5

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	1.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
108-88-3	Toluene	ND	5.0	1.0	ug/kg	
1330-20-7	Xylene (total)	ND	15	2.1	ug/kg	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	100% 75-124%
17060-07-0	1,2-Dichloroethane-D4	107% 72-135%
2037-26-5	Toluene-D8	101% 75-126%
460-00-4	4-Bromofluorobenzene	99% 71-133%

Method Blank Summary

Page 1 of 1

Job Number: FA54762

Account: ATCFLM ATC Group Services LLC.

Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3C48-MB	3C1143.D	1	06/07/18	SP	n/a	n/a	V3C48

The QC reported here applies to the following samples:

Method: SW846 8260B

FA54762-3

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	1.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
108-88-3	Toluene	1.1	5.0	1.0	ug/kg	J
1330-20-7	Xylene (total)	ND	15	2.1	ug/kg	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	102% 75-124%
17060-07-0	1,2-Dichloroethane-D4	106% 72-135%
2037-26-5	Toluene-D8	104% 75-126%
460-00-4	4-Bromofluorobenzene	104% 71-133%

Blank Spike Summary

Page 1 of 1

Job Number: FA54762

Account: ATCFLM ATC Group Services LLC.

Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B333-BS	2B8805.D	1	06/07/18	SP	n/a	n/a	V2B333

The QC reported here applies to the following samples:

Method: SW846 8260B

FA54762-1, FA54762-2, FA54762-4, FA54762-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	53.3	107	76-126
100-41-4	Ethylbenzene	50	55.9	112	77-123
1634-04-4	Methyl Tert Butyl Ether	50	48.9	98	77-120
108-88-3	Toluene	50	51.6	103	76-124
1330-20-7	Xylene (total)	150	171	114	80-129

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	75-124%
17060-07-0	1,2-Dichloroethane-D4	101%	72-135%
2037-26-5	Toluene-D8	100%	75-126%
460-00-4	4-Bromofluorobenzene	97%	71-133%

* = Outside of Control Limits.

Blank Spike Summary

Page 1 of 1

Job Number: FA54762

Account: ATCFLM ATC Group Services LLC.

Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3C48-BS	3C1142.D	1	06/07/18	SP	n/a	n/a	V3C48

The QC reported here applies to the following samples:

Method: SW846 8260B

FA54762-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	49.3	99	76-126
100-41-4	Ethylbenzene	50	51.2	102	77-123
1634-04-4	Methyl Tert Butyl Ether	50	50.1	100	77-120
108-88-3	Toluene	50	47.4	95	76-124
1330-20-7	Xylene (total)	150	155	103	80-129

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	75-124%
17060-07-0	1,2-Dichloroethane-D4	102%	72-135%
2037-26-5	Toluene-D8	100%	75-126%
460-00-4	4-Bromofluorobenzene	99%	71-133%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: FA54762

Account: ATCFLM ATC Group Services LLC.

Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA54803-3MS	3C1150.D	1	06/07/18	SP	n/a	n/a	V3C48
FA54803-3MSD	3C1151.D	1	06/07/18	SP	n/a	n/a	V3C48
FA54803-3	3C1149.D	1	06/07/18	SP	n/a	n/a	V3C48

The QC reported here applies to the following samples:

Method: SW846 8260B

FA54762-3

CAS No.	Compound	FA54803-3 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	41.1	33.3	81	40.1	31.9	80	4	76-126/26
100-41-4	Ethylbenzene	ND	41.1	35.7	87	40.1	34.5	86	3	77-123/31
1634-04-4	Methyl Tert Butyl Ether	ND	41.1	32.3	79	40.1	32.3	81	0	77-120/24
108-88-3	Toluene	ND	41.1	33.3	81	40.1	34.4	86	3	76-124/30
1330-20-7	Xylene (total)	ND	123	112	91	120	107	89	5	80-129/30

CAS No.	Surrogate Recoveries	MS	MSD	FA54803-3	Limits
1868-53-7	Dibromofluoromethane	69%* b	65%* b	49%* a	75-124%
17060-07-0	1,2-Dichloroethane-D4	109%	102%	109%	72-135%
2037-26-5	Toluene-D8	102%	104%	105%	75-126%
460-00-4	4-Bromofluorobenzene	98%	96%	98%	71-133%

(a) Outside control limits due to matrix interference (alkaline pH). Confirmed by MS/MSD.

(b) Outside control limits due to matrix interference (high pH).

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: FA54762

Account: ATCFLM ATC Group Services LLC.

Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA54835-1MS	2B8823.D	1	06/07/18	SP	n/a	n/a	V2B333
FA54835-1MSD	2B8824.D	1	06/07/18	SP	n/a	n/a	V2B333
FA54835-1 ^a	2B8822.D	1	06/07/18	SP	n/a	n/a	V2B333

The QC reported here applies to the following samples:

Method: SW846 8260B

FA54762-1, FA54762-2, FA54762-4, FA54762-5

CAS No.	Compound	FA54835-1 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	6.1 U	63.1	56.7	90	59.9	54.7	91	4	76-126/26
100-41-4	Ethylbenzene	6.1 U	63.1	57.3	91	59.9	54.5	91	5	77-123/31
1634-04-4	Methyl Tert Butyl Ether	6.1 U	63.1	61.9	98	59.9	59.5	99	4	77-120/24
108-88-3	Toluene	6.1 U	63.1	55.1	87	59.9	54.8	92	1	76-124/30
1330-20-7	Xylene (total)	18 U	189	176	93	180	168	94	5	80-129/30

CAS No.	Surrogate Recoveries	MS	MSD	FA54835-1	Limits
1868-53-7	Dibromofluoromethane	101%	102%	102%	75-124%
17060-07-0	1,2-Dichloroethane-D4	101%	100%	104%	72-135%
2037-26-5	Toluene-D8	101%	101%	105%	75-126%
460-00-4	4-Bromofluorobenzene	106%	104%	110%	71-133%

(a) Confirmation run.

* = Outside of Control Limits.



MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 1

Job Number: FA54762

Account: ATCFLM ATC Group Services LLC.

Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP70388-MB	8H03165.D	1	06/07/18	FS	06/07/18	OP70388	S8H124

The QC reported here applies to the following samples:

Method: SW846 8270D BY SIM

FA54762-2, FA54762-3, FA54762-4, FA54762-5

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	67	27	ug/kg	
208-96-8	Acenaphthylene	ND	67	27	ug/kg	
120-12-7	Anthracene	ND	67	17	ug/kg	
56-55-3	Benzo(a)anthracene	ND	13	3.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	13	3.3	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	13	3.3	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	13	3.3	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	13	3.3	ug/kg	
218-01-9	Chrysene	ND	13	3.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	13	3.3	ug/kg	
206-44-0	Fluoranthene	ND	67	17	ug/kg	
86-73-7	Fluorene	ND	67	27	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	13	3.3	ug/kg	
90-12-0	1-Methylnaphthalene	ND	67	27	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	27	ug/kg	
91-20-3	Naphthalene	ND	67	27	ug/kg	
85-01-8	Phenanthrene	ND	67	17	ug/kg	
129-00-0	Pyrene	ND	67	17	ug/kg	

CAS No.	Surrogate Recoveries	Limits
4165-60-0	Nitrobenzene-d5	92% 40-105%
321-60-8	2-Fluorobiphenyl	90% 43-107%
1718-51-0	Terphenyl-d14	117% 45-119%

Method Blank Summary

Page 1 of 1

Job Number: FA54762

Account: ATCFLM ATC Group Services LLC.

Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP70433-MB	8H03226.D	1	06/11/18	FS	06/11/18	OP70433	S8H126

The QC reported here applies to the following samples:

Method: SW846 8270D BY SIM

FA54762-1

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	67	27	ug/kg	
208-96-8	Acenaphthylene	ND	67	27	ug/kg	
120-12-7	Anthracene	ND	67	17	ug/kg	
56-55-3	Benzo(a)anthracene	ND	13	3.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	13	3.3	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	13	3.3	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	13	3.3	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	13	3.3	ug/kg	
218-01-9	Chrysene	ND	13	3.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	13	3.3	ug/kg	
206-44-0	Fluoranthene	ND	67	17	ug/kg	
86-73-7	Fluorene	ND	67	27	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	13	3.3	ug/kg	
90-12-0	1-Methylnaphthalene	ND	67	27	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	27	ug/kg	
91-20-3	Naphthalene	ND	67	27	ug/kg	
85-01-8	Phenanthrene	ND	67	17	ug/kg	
129-00-0	Pyrene	ND	67	17	ug/kg	

CAS No.	Surrogate Recoveries	Limits
4165-60-0	Nitrobenzene-d5	91% 40-105%
321-60-8	2-Fluorobiphenyl	91% 43-107%
1718-51-0	Terphenyl-d14	101% 45-119%

Blank Spike Summary

Page 1 of 1

Job Number: FA54762

Account: ATCFLM ATC Group Services LLC.

Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP70388-BS	8H03166.D	1	06/07/18	FS	06/07/18	OP70388	S8H124

The QC reported here applies to the following samples:

Method: SW846 8270D BY SIM

FA54762-2, FA54762-3, FA54762-4, FA54762-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	667	643	96	53-100
208-96-8	Acenaphthylene	667	601	90	51-100
120-12-7	Anthracene	333	323	97	60-102
56-55-3	Benzo(a)anthracene	333	308	92	60-106
50-32-8	Benzo(a)pyrene	333	323	97	58-105
205-99-2	Benzo(b)fluoranthene	333	327	98	59-112
191-24-2	Benzo(g,h,i)perylene	333	378	113*	56-109
207-08-9	Benzo(k)fluoranthene	333	386	116*	58-109
218-01-9	Chrysene	333	359	108*	62-104
53-70-3	Dibenzo(a,h)anthracene	333	371	111*	55-110
206-44-0	Fluoranthene	667	617	93	59-109
86-73-7	Fluorene	667	654	98	56-104
193-39-5	Indeno(1,2,3-cd)pyrene	333	370	111*	54-110
90-12-0	1-Methylnaphthalene	667	577	87	50-101
91-57-6	2-Methylnaphthalene	667	550	82	49-100
91-20-3	Naphthalene	667	622	93	49-101
85-01-8	Phenanthrene	667	652	98	57-104
129-00-0	Pyrene	667	663	99	58-106

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	87%	40-105%
321-60-8	2-Fluorobiphenyl	98%	43-107%
1718-51-0	Terphenyl-d14	110%	45-119%

* = Outside of Control Limits.

Blank Spike Summary

Page 1 of 1

Job Number: FA54762

Account: ATCFLM ATC Group Services LLC.

Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP70388-BS	8H03228.D	1	06/11/18	FS	06/07/18	OP70388	S8H126

The QC reported here applies to the following samples:

Method: SW846 8270D BY SIM

FA54762-2, FA54762-3, FA54762-4, FA54762-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	667	520	78	53-100
208-96-8	Acenaphthylene	667	489	73	51-100
120-12-7	Anthracene	333	249	75	60-102
56-55-3	Benzo(a)anthracene	333	256	77	60-106
50-32-8	Benzo(a)pyrene	333	256	77	58-105
205-99-2	Benzo(b)fluoranthene	333	268	80	59-112
191-24-2	Benzo(g,h,i)perylene	333	291	87	56-109
207-08-9	Benzo(k)fluoranthene	333	277	83	58-109
218-01-9	Chrysene	333	281	84	62-104
53-70-3	Dibenzo(a,h)anthracene	333	307	92	55-110
206-44-0	Fluoranthene	667	485	73	59-109
86-73-7	Fluorene	667	520	78	56-104
193-39-5	Indeno(1,2,3-cd)pyrene	333	291	87	54-110
90-12-0	1-Methylnaphthalene	667	458	69	50-101
91-57-6	2-Methylnaphthalene	667	466	70	49-100
91-20-3	Naphthalene	667	504	76	49-101
85-01-8	Phenanthrene	667	525	79	57-104
129-00-0	Pyrene	667	525	79	58-106

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	76%	40-105%
321-60-8	2-Fluorobiphenyl	81%	43-107%
1718-51-0	Terphenyl-d14	87%	45-119%

* = Outside of Control Limits.

Blank Spike Summary

Page 1 of 1

Job Number: FA54762

Account: ATCFLM ATC Group Services LLC.

Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP70433-BS	8H03227.D	1	06/11/18	FS	06/11/18	OP70433	S8H126

The QC reported here applies to the following samples:

Method: SW846 8270D BY SIM

FA54762-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	667	585	88	53-100
208-96-8	Acenaphthylene	667	556	83	51-100
120-12-7	Anthracene	333	292	88	60-102
56-55-3	Benzo(a)anthracene	333	301	90	60-106
50-32-8	Benzo(a)pyrene	333	303	91	58-105
205-99-2	Benzo(b)fluoranthene	333	306	92	59-112
191-24-2	Benzo(g,h,i)perylene	333	338	101	56-109
207-08-9	Benzo(k)fluoranthene	333	322	97	58-109
218-01-9	Chrysene	333	331	99	62-104
53-70-3	Dibenzo(a,h)anthracene	333	359	108	55-110
206-44-0	Fluoranthene	667	573	86	59-109
86-73-7	Fluorene	667	593	89	56-104
193-39-5	Indeno(1,2,3-cd)pyrene	333	343	103	54-110
90-12-0	1-Methylnaphthalene	667	505	76	50-101
91-57-6	2-Methylnaphthalene	667	522	78	49-100
91-20-3	Naphthalene	667	552	83	49-101
85-01-8	Phenanthrene	667	614	92	57-104
129-00-0	Pyrene	667	609	91	58-106

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	83%	40-105%
321-60-8	2-Fluorobiphenyl	91%	43-107%
1718-51-0	Terphenyl-d14	103%	45-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: FA54762

Account: ATCFLM ATC Group Services LLC.

Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP70388-MS	8H03187.D	1	06/07/18	FS	06/07/18	OP70388	S8H124
OP70388-MSD	8H03188.D	1	06/08/18	FS	06/07/18	OP70388	S8H124
FA54784-2	8H03186.D	1	06/07/18	FS	06/07/18	OP70388	S8H124

The QC reported here applies to the following samples:

Method: SW846 8270D BY SIM

FA54762-2, FA54762-3, FA54762-4, FA54762-5

CAS No.	Compound	FA54784-2 ug/kg	Spike Q	ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	70 U		700	719	103*	691	593	86	19	53-100/28
208-96-8	Acenaphthylene	70 U		700	689	98	691	565	82	20	51-100/25
120-12-7	Anthracene	70 U		350	360	103*	345	294	85	20	60-102/29
56-55-3	Benzo(a)anthracene	14 U		350	363	104	345	295	85	21	60-106/30
50-32-8	Benzo(a)pyrene	14 U		350	376	107*	345	304	88	21	58-105/30
205-99-2	Benzo(b)fluoranthene	14 U		350	401	115*	345	324	94	21	59-112/33
191-24-2	Benzo(g,h,i)perylene	14 U		350	229	65	345	182	53*	23	56-109/31
207-08-9	Benzo(k)fluoranthene	14 U		350	418	119*	345	341	99	20	58-109/33
218-01-9	Chrysene	14 U		350	395	113*	345	328	95	19	62-104/30
53-70-3	Dibenzo(a,h)anthracene	14 U		350	313	89	345	242	70	26	55-110/31
206-44-0	Fluoranthene	70 U		700	711	102	691	582	84	20	59-109/29
86-73-7	Fluorene	70 U		700	741	106*	691	615	89	19	56-104/27
193-39-5	Indeno(1,2,3-cd)pyrene	14 U		350	274	78	345	214	62	25	54-110/32
90-12-0	1-Methylnaphthalene	70 U		700	628	90	691	513	74	20	50-101/30
91-57-6	2-Methylnaphthalene	70 U		700	632	90	691	518	75	20	49-100/26
91-20-3	Naphthalene	70 U		700	684	98	691	564	82	19	49-101/28
85-01-8	Phenanthrene	70 U		700	744	106*	691	615	89	19	57-104/27
129-00-0	Pyrene	70 U		700	725	104	691	591	86	20	58-106/29

CAS No.	Surrogate Recoveries	MS	MSD	FA54784-2	Limits
4165-60-0	Nitrobenzene-d5	92%	74%	85%	40-105%
321-60-8	2-Fluorobiphenyl	103%	84%	95%	43-107%
1718-51-0	Terphenyl-d14	111%	89%	111%	45-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: FA54762

Account: ATCFLM ATC Group Services LLC.

Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP70433-MS	8H03237.D	1	06/11/18	FS	06/11/18	OP70433	S8H126
OP70433-MSD	8H03238.D	1	06/11/18	FS	06/11/18	OP70433	S8H126
FA54843-1	8H03236.D	1	06/11/18	FS	06/11/18	OP70433	S8H126

The QC reported here applies to the following samples:

Method: SW846 8270D BY SIM

FA54762-1

CAS No.	Compound	FA54843-1 ug/kg	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	83 U	821	796	97	821	719	88	10	53-100/28
208-96-8	Acenaphthylene	83 U	821	764	93	821	683	83	11	51-100/25
120-12-7	Anthracene	83 U	410	380	93	410	337	82	12	60-102/29
56-55-3	Benzo(a)anthracene	17 U	410	386	94	410	342	83	12	60-106/30
50-32-8	Benzo(a)pyrene	17 U	410	383	93	410	340	83	12	58-105/30
205-99-2	Benzo(b)fluoranthene	17 U	410	400	97	410	356	87	12	59-112/33
191-24-2	Benzo(g,h,i)perylene	17 U	410	279	68	410	246	60	13	56-109/31
207-08-9	Benzo(k)fluoranthene	17 U	410	406	99	410	361	88	12	58-109/33
218-01-9	Chrysene	17 U	410	426	104	410	371	90	14	62-104/30
53-70-3	Dibenzo(a,h)anthracene	17 U	410	366	89	410	321	78	13	55-110/31
206-44-0	Fluoranthene	83 U	821	720	88	821	645	79	11	59-109/29
86-73-7	Fluorene	83 U	821	793	97	821	710	86	11	56-104/27
193-39-5	Indeno(1,2,3-cd)pyrene	17 U	410	323	79	410	289	70	11	54-110/32
90-12-0	1-Methylnaphthalene	83 U	821	695	85	821	614	75	12	50-101/30
91-57-6	2-Methylnaphthalene	83 U	821	730	89	821	652	79	11	49-100/26
91-20-3	Naphthalene	83 U	821	775	94	821	695	85	11	49-101/28
85-01-8	Phenanthrene	83 U	821	805	98	821	719	88	11	57-104/27
129-00-0	Pyrene	83 U	821	771	94	821	687	84	12	58-106/29

CAS No.	Surrogate Recoveries	MS	MSD	FA54843-1	Limits
4165-60-0	Nitrobenzene-d5	99%	86%	95%	40-105%
321-60-8	2-Fluorobiphenyl	104%	92%	98%	43-107%
1718-51-0	Terphenyl-d14	107%	94%	99%	45-119%

* = Outside of Control Limits.



GC/LC Semi-volatiles

QC Data Summaries

7

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA54762
Account: ATCFLM ATC Group Services LLC.
Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP70393-MB	YR18455.D	1	06/11/18	SJL	06/07/18	OP70393	GYR414

The QC reported here applies to the following samples: Method: FLORIDA-PRO

FA54762-1, FA54762-2, FA54762-3, FA54762-4, FA54762-5

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	ND	8.3	5.0	mg/kg	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	100% 52-133%

Blank Spike Summary

Job Number: FA54762
Account: ATCFLM ATC Group Services LLC.
Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP70393-BS	YR18454.D	1	06/11/18	SJL	06/07/18	OP70393	GYR414

The QC reported here applies to the following samples: Method: FLORIDA-PRO

FA54762-1, FA54762-2, FA54762-3, FA54762-4, FA54762-5

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH (C8-C40)	28.3	25.1	89	53-120

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	100%	52-133%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA54762
Account: ATCFLM ATC Group Services LLC.
Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP70393-MS	YR18462.D	1	06/11/18	SJL	06/07/18	OP70393	GYR414
OP70393-MSD	YR18463.D	1	06/11/18	SJL	06/07/18	OP70393	GYR414
FA54784-1	YR18461.D	1	06/11/18	SJL	06/07/18	OP70393	GYR414

The QC reported here applies to the following samples: Method: FLORIDA-PRO

FA54762-1, FA54762-2, FA54762-3, FA54762-4, FA54762-5

CAS No.	Compound	FA54784-1 mg/kg	Spike Q mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C8-C40)	9.1 U	30.9	27.8	90	31.2	25.4	81	9	53-120/34

CAS No.	Surrogate Recoveries	MS	MSD	FA54784-1	Limits
84-15-1	o-Terphenyl	105%	92%	105%	52-133%

* = Outside of Control Limits.

Metals Analysis

QC Data Summaries



Includes the following where applicable:

- **Method Blank Summaries**
- **Matrix Spike and Duplicate Summaries**
- **Blank Spike and Lab Control Sample Summaries**
- **Serial Dilution Summaries**

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA54762
Account: ATCFLM - ATC Group Services LLC.
Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

QC Batch ID: MP33856
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 06/08/18

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	.7	1.8		
Antimony	1.0	.05	.065		
Arsenic	0.50	.065	.1		
Barium	10	.05	.05		
Beryllium	0.25	.01	.025		
Cadmium	0.20	.01	.025		
Calcium	250	2.5	2.5		
Chromium	0.50	.05	.05		
Cobalt	2.5	.01	.025		
Copper	1.3	.05	.05		
Iron	15	.85	.85		
Lead	1.0	.05	.05	0.050	<1.0
Magnesium	250	1.8	1.8		
Manganese	0.75	.025	.025		
Molybdenum	2.5	.015	.025		
Nickel	2.0	.02	.025		
Potassium	500	10	10		
Selenium	1.0	.12	.12		
Silver	0.50	.035	.041		
Sodium	500	25	25		
Strontium	0.50	.025	.025		
Thallium	0.50	.055	.055		
Tin	2.5	.045	.045		
Titanium	0.50	.025	.025		
Vanadium	2.5	.025	.025		
Zinc	1.0	.15	.15		

Associated samples MP33856: FA54762-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA54762
 Account: ATCFLM - ATC Group Services LLC.
 Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

QC Batch ID: MP33856
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date:

06/08/18

06/08/18

Metal	FA54762-5 Original	DUP	RPD	QC Limits	FA54762-5 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum									
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron									
Lead	4.0	3.8 (a)	5.1	0-20	4.0	29.5 (a)	25.8	98.9	80-120
Magnesium									
Manganese									
Molybdenum	anr								
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

Associated samples MP33856: FA54762-5

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested
 (a) Sample dilution required due to difficult matrix.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA54762
 Account: ATCFLM - ATC Group Services LLC.
 Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

QC Batch ID: MP33856
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 06/08/18

Metal	FA54762-5 Original MSD	Spikelot MPFLICP2 % Rec	MSD RPD	QC Limit
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron				
Lead	4.0	21.4 (a) 18.2	95.8	31.8 (b) 20
Magnesium				
Manganese				
Molybdenum	anr			
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP33856: FA54762-5

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested
 (a) Sample dilution required due to difficult matrix.
 (b) High RPD due to possible sample non-homogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA54762
 Account: ATCFLM - ATC Group Services LLC.
 Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

QC Batch ID: MP33856
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 06/08/18

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron				
Lead	23.8	25	95.2	80-120
Magnesium				
Manganese				
Molybdenum	anr			
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP33856: FA54762-5

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

8.1.3
8

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA54762
 Account: ATCFLM - ATC Group Services LLC.
 Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

QC Batch ID: MP33856
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: ug/l

Prep Date: 06/08/18

Metal		FA54762-5 Original SDL 5:25 %DIF		QC Limits	
Aluminum					
Antimony	anr				
Arsenic	anr				
Barium	anr				
Beryllium	anr				
Cadmium	anr				
Calcium					
Chromium	anr				
Cobalt	anr				
Copper	anr				
Iron					
Lead	81.4	83.0	2.0	0-10	
Magnesium					
Manganese					
Molybdenum	anr				
Nickel	anr				
Potassium					
Selenium	anr				
Silver	anr				
Sodium					
Strontium					
Thallium	anr				
Tin					
Titanium					
Vanadium	anr				
Zinc	anr				

Associated samples MP33856: FA54762-5

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: FA54762
 Account: ATCFLM - ATC Group Services LLC.
 Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

QC Batch ID: MP33856
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: ug/l

Prep Date:

06/08/18

Metal	Sample ml	Final ml	FA54762-5 Raw	PS Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead	9.8	10	81.4	79.772	121.9	0.2	2.5	50	84.3	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP33856: FA54762-5

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (**) Corr. sample result = Raw * (sample volume / final volume)
 (anr) Analyte not requested

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

ATC Group Services LLC.

Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Z101430699

SGS Job Number: FA54891

Sampling Date: 06/07/18

Report to:

**ATC Group Services LLC.
9955 NW 116th Way Suite 1
Miami, FL 33178
dwight.schwendeman@atcassociates.com**

ATTN: Dwight Schwendeman

Total number of pages in report: 31



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

**Caitlin Brice, M.S.
General Manager**

Client Service contact: Muna Mohammed 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),
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Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary 3

Section 2: Summary of Hits 4

Section 3: Sample Results 5

3.1: FA54891-1: MW 9 6

Section 4: Misc. Forms 10

4.1: Chain of Custody 11

Section 5: MS Volatiles - QC Data Summaries 13

5.1: Method Blank Summary 14

5.2: Blank Spike Summary 15

5.3: Matrix Spike/Matrix Spike Duplicate Summary 16

Section 6: MS Semi-volatiles - QC Data Summaries 17

6.1: Method Blank Summary 18

6.2: Blank Spike Summary 19

6.3: Matrix Spike/Matrix Spike Duplicate Summary 20

Section 7: GC/LC Semi-volatiles - QC Data Summaries 21

7.1: Method Blank Summary 22

7.2: Blank Spike Summary 23

7.3: Matrix Spike/Matrix Spike Duplicate Summary 24

Section 8: Metals Analysis - QC Data Summaries 25

8.1: Prep QC MP33873: Pb 26



Sample Summary

ATC Group Services LLC.

Job No: FA54891

Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL
Project No: Z101430699

Sample Number	Collected		Matrix Code Type	Client Sample ID
	Date	Time By	Received	
FA54891-1	06/07/18	00:00 LR	06/09/18 AQ	Ground Water
				MW 9

Summary of Hits

Job Number: FA54891
Account: ATC Group Services LLC.
Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL
Collected: 06/07/18

Lab Sample ID	Client Sample ID	Result/ Analyte	Qual	PQL	MDL	Units	Method
FA54891-1	MW 9						
		2-Methylnaphthalene	0.72 I	0.80	0.32	ug/l	SW846 8270D BY SIM
		TPH (C8-C40)	0.665	0.24	0.14	mg/l	FLORIDA-PRO
		Lead	5.4	5.0	1.1	ug/l	SW846 6010C



Orlando, FL

Section 3



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW 9	Date Sampled:	06/07/18
Lab Sample ID:	FA54891-1	Date Received:	06/09/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O54087.D	1	06/14/18 10:16	SP	n/a	n/a	VO2040
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	0.31 U	1.0	0.31	ug/l	
108-88-3	Toluene	0.30 U	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	0.36 U	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	0.72 U	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.23 U	1.0	0.23	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 9	Date Sampled:	06/07/18
Lab Sample ID:	FA54891-1	Date Received:	06/09/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3510C		
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T038518.D	1	06/13/18 05:42	RV	06/11/18 17:00	OP70444	ST1407
Run #2							

Run #	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	PQL	MDL	Units	Q
83-32-9	Acenaphthene	0.32 U	0.80	0.32	ug/l	
208-96-8	Acenaphthylene	0.32 U	0.80	0.32	ug/l	
120-12-7	Anthracene	0.20 U	0.80	0.20	ug/l	
56-55-3	Benzo(a)anthracene	0.032 U	0.16	0.032	ug/l	
50-32-8	Benzo(a)pyrene	0.032 U	0.16	0.032	ug/l	
205-99-2	Benzo(b)fluoranthene	0.032 U	0.16	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.032 U	0.16	0.032	ug/l	
207-08-9	Benzo(k)fluoranthene	0.032 U	0.16	0.032	ug/l	
218-01-9	Chrysene	0.032 U	0.16	0.032	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.032 U	0.16	0.032	ug/l	
206-44-0	Fluoranthene	0.20 U	0.80	0.20	ug/l	
86-73-7	Fluorene	0.20 U	0.80	0.20	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.032 U	0.16	0.032	ug/l	
90-12-0	1-Methylnaphthalene	0.32 U	0.80	0.32	ug/l	
91-57-6	2-Methylnaphthalene	0.72	0.80	0.32	ug/l	I
91-20-3	Naphthalene	0.32 U	0.80	0.32	ug/l	
85-01-8	Phenanthrene	0.20 U	0.80	0.20	ug/l	
129-00-0	Pyrene	0.20 U	0.80	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	55%		41-129%
321-60-8	2-Fluorobiphenyl	70%		41-118%
1718-51-0	Terphenyl-d14	81%		45-145%

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 9						
Lab Sample ID:	FA54891-1					Date Sampled:	06/07/18
Matrix:	AQ - Ground Water					Date Received:	06/09/18
Method:	FLORIDA-PRO SW846 3510C					Percent Solids:	n/a
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YR18575.D	1	06/13/18 18:33	SJL	06/11/18 15:00	OP70443	GYR416
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	PQL	MDL	Units	Q
	TPH (C8-C40)	0.665	0.24	0.14	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	87%		41-146%		

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 9	Date Sampled:	06/07/18
Lab Sample ID:	FA54891-1	Date Received:	06/09/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL		

Total Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	5.4	5.0	1.1	ug/l	1	06/13/18	06/13/18 LM	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: MA14972
(2) Prep QC Batch: MP33873

PQL = Practical Quantitation Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL



Misc. Forms**Custody Documents and Other Forms**

Includes the following where applicable:

- Chain of Custody

PREM

SGS North America Inc - Orlando

Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, FL 32811
TEL. 407-425-6700 FAX: 407-425-0707

FA54891

SGS - ORLANDO JOB # :

PAGE 1 OF 1

[illegible]

ORLD-SMT-0001-03-FORM-COC (1) Rev 031318

FA54891: Chain of Custody

Page 1 of 2

SGS

SGS Sample Receipt Summary

Job Number: FA54891 **Client:** ATC **Project:** JAK SERVICE CENTER DBA
Date / Time Received: 6/9/2018 9:45:00 AM **Delivery Method:** FED EX **Airbill #s:** 1001893311210003281100781333940218

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1
Cooler Temps (Raw Measured) °C: Cooler 1: (2.6);
Cooler Temps (Corrected) °C: Cooler 1: (3.0);

Cooler Information

	<u>Y</u>	<u>or</u>	<u>N</u>
1. Custody Seals Present	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Temp criteria achieved	<input checked="" type="checkbox"/>		<input type="checkbox"/>
4. Cooler temp verification	<u>IR Gun</u>		
5. Cooler media	<u>Ice (Bag)</u>		

Sample Information

	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Sample labels present on bottles	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Samples preserved properly	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
3. Sufficient volume/containers recvd for analysis:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
4. Condition of sample	<u>Intact</u>			
5. Sample recvd within HT	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
6. Dates/Times/IDs on COC match Sample Label	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
7. VOCs have headspace	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
9. Compositing instructions clear	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
10. Voa Soil Kits/Jars received past 48hrs?	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
11. % Solids Jar received?	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
12. Residual Chlorine Present?	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Trip Blank Information

	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<u>W</u>	<u>or</u>	<u>S</u>	<u>N/A</u>
3. Type Of TB Received	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____
 Test Strip Lot #s: pH 0-3 _____ 230315 _____ pH 10-12 _____ 219813A _____ Other: (Specify) _____
 Residual Chlorine Test Strip Lot #: _____

Comments 1 Amber Bottle received instead of 2 for Extractions. 250ml Amber Bottles received for 8270.

SM001 Technician: SHAYLAP Date: 6/9/2018 9:45:00 AM Reviewer: SP Date: 6/9/2018
 Rev. Date 05/24/17

FA54891: Chain of Custody

Page 2 of 2

MS Volatiles

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 1

Job Number: FA54891

Account: ATCFLM ATC Group Services LLC.

Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO2040-MB	O54084.D	1	06/14/18	SP	n/a	n/a	VO2040

The QC reported here applies to the following samples:

Method: SW846 8260B

FA54891-1

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	104% 83-118%
17060-07-0	1,2-Dichloroethane-D4	106% 79-125%
2037-26-5	Toluene-D8	108% 85-112%
460-00-4	4-Bromofluorobenzene	98% 83-118%

Blank Spike Summary

Page 1 of 1

Job Number: FA54891

Account: ATCFLM ATC Group Services LLC.

Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO2040-BS	O54083.D	1	06/14/18	SP	n/a	n/a	VO2040

The QC reported here applies to the following samples:

Method: SW846 8260B

FA54891-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	28.0	112	81-122
100-41-4	Ethylbenzene	25	27.2	109	81-121
1634-04-4	Methyl Tert Butyl Ether	25	26.9	108	72-117
108-88-3	Toluene	25	28.0	112	80-120
1330-20-7	Xylene (total)	75	79.0	105	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	105%	83-118%
17060-07-0	1,2-Dichloroethane-D4	106%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	87%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA54891
Account: ATCFLM ATC Group Services LLC.
Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA54810-1MS	O54106.D	5	06/14/18	SP	n/a	n/a	VO2040
FA54810-1MSD	O54107.D	5	06/14/18	SP	n/a	n/a	VO2040
FA54810-1	O54091.D	1	06/14/18	SP	n/a	n/a	VO2040

The QC reported here applies to the following samples: Method: SW846 8260B

FA54891-1

CAS No.	Compound	FA54810-1 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1.0 U	125	127	102	125	138	110	8	81-122/14
100-41-4	Ethylbenzene	1.0 U	125	121	97	125	131	105	8	81-121/14
1634-04-4	Methyl Tert Butyl Ether	1.0 U	125	120	96	125	138	110	14	72-117/14
108-88-3	Toluene	1.0 U	125	123	98	125	133	106	8	80-120/14
1330-20-7	Xylene (total)	3.0 U	375	342	91	375	376	100	9	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA54810-1	Limits
1868-53-7	Dibromofluoromethane	106%	108%	105%	83-118%
17060-07-0	1,2-Dichloroethane-D4	112%	110%	102%	79-125%
2037-26-5	Toluene-D8	99%	99%	108%	85-112%
460-00-4	4-Bromofluorobenzene	87%	88%	99%	83-118%

* = Outside of Control Limits.

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 1

Job Number: FA54891

Account: ATCFM ATC Group Services LLC.

Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP70444-MB	T038501.D	1	06/12/18	RV	06/11/18	OP70444	ST1407

The QC reported here applies to the following samples:

Method: SW846 8270D BY SIM

FA54891-1

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.80	0.32	ug/l	
208-96-8	Acenaphthylene	ND	0.80	0.32	ug/l	
120-12-7	Anthracene	ND	0.80	0.20	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.16	0.032	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.16	0.032	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.16	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.16	0.032	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.16	0.032	ug/l	
218-01-9	Chrysene	ND	0.16	0.032	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.16	0.032	ug/l	
206-44-0	Fluoranthene	ND	0.80	0.20	ug/l	
86-73-7	Fluorene	ND	0.80	0.20	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.16	0.032	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.80	0.32	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.80	0.32	ug/l	
91-20-3	Naphthalene	ND	0.80	0.32	ug/l	
85-01-8	Phenanthrene	ND	0.80	0.20	ug/l	
129-00-0	Pyrene	ND	0.80	0.20	ug/l	

CAS No.	Surrogate Recoveries	Limits
4165-60-0	Nitrobenzene-d5	62% 41-129%
321-60-8	2-Fluorobiphenyl	83% 41-118%
1718-51-0	Terphenyl-d14	86% 45-145%

Blank Spike Summary

Page 1 of 1

Job Number: FA54891

Account: ATCFLM ATC Group Services LLC.

Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP70444-BS	T038500.D	1	06/12/18	RV	06/11/18	OP70444	ST1407

The QC reported here applies to the following samples:

Method: SW846 8270D BY SIM

FA54891-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	8	8.0	100	54-128
208-96-8	Acenaphthylene	8	7.6	95	55-128
120-12-7	Anthracene	4	3.5	88	57-129
56-55-3	Benzo(a)anthracene	4	3.7	93	60-134
50-32-8	Benzo(a)pyrene	4	3.6	90	58-131
205-99-2	Benzo(b)fluoranthene	4	4.0	100	62-139
191-24-2	Benzo(g,h,i)perylene	4	3.9	98	48-136
207-08-9	Benzo(k)fluoranthene	4	3.9	98	60-139
218-01-9	Chrysene	4	4.0	100	64-136
53-70-3	Dibenzo(a,h)anthracene	4	4.0	100	46-131
206-44-0	Fluoranthene	8	7.5	94	59-140
86-73-7	Fluorene	8	6.4	80	55-129
193-39-5	Indeno(1,2,3-cd)pyrene	4	4.0	100	46-139
90-12-0	1-Methylnaphthalene	8	6.3	79	52-128
91-57-6	2-Methylnaphthalene	8	6.7	84	50-117
91-20-3	Naphthalene	8	6.9	86	52-124
85-01-8	Phenanthrene	8	7.9	99	60-130
129-00-0	Pyrene	8	8.1	101	53-134

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	72%	41-129%
321-60-8	2-Fluorobiphenyl	96%	41-118%
1718-51-0	Terphenyl-d14	91%	45-145%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: FA54891

Account: ATCFLM ATC Group Services LLC.

Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP70444-MS	T038509.D	1	06/13/18	RV	06/11/18	OP70444	ST1407
OP70444-MSD	T038510.D	1	06/13/18	RV	06/11/18	OP70444	ST1407
FA54906-7	T038508.D	1	06/13/18	RV	06/11/18	OP70444	ST1407

The QC reported here applies to the following samples:

Method: SW846 8270D BY SIM

FA54891-1

CAS No.	Compound	FA54906-7 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	0.80 U	16.7	13.7	82	16.7	15.1	91	10	54-128/23
208-96-8	Acenaphthylene	0.80 U	16.7	13.3	80	16.7	14.6	88	9	55-128/23
120-12-7	Anthracene	0.80 U	8.33	6.2	74	8.33	6.9	83	11	57-129/22
56-55-3	Benzo(a)anthracene	0.16 U	8.33	6.9	83	8.33	7.5	90	8	60-134/18
50-32-8	Benzo(a)pyrene	0.16 U	8.33	6.5	78	8.33	7.2	86	10	58-131/20
205-99-2	Benzo(b)fluoranthene	0.16 U	8.33	7.4	89	8.33	8.1	97	9	62-139/21
191-24-2	Benzo(g,h,i)perylene	0.16 U	8.33	7.0	84	8.33	7.7	92	10	48-136/23
207-08-9	Benzo(k)fluoranthene	0.16 U	8.33	6.7	80	8.33	7.5	90	11	60-139/19
218-01-9	Chrysene	0.16 U	8.33	7.3	88	8.33	7.9	95	8	64-136/19
53-70-3	Dibenzo(a,h)anthracene	0.16 U	8.33	7.1	85	8.33	7.9	95	11	46-131/25
206-44-0	Fluoranthene	0.80 U	16.7	13.8	83	16.7	14.8	89	7	59-140/18
86-73-7	Fluorene	0.80 U	16.7	10.8	65	16.7	12.4	74	14	55-129/23
193-39-5	Indeno(1,2,3-cd)pyrene	0.16 U	8.33	7.1	85	8.33	7.9	95	11	46-139/24
90-12-0	1-Methylnaphthalene	0.80 U	16.7	10.8	65	16.7	11.7	70	8	52-128/22
91-57-6	2-Methylnaphthalene	0.80 U	16.7	11.4	68	16.7	12.6	76	10	50-117/23
91-20-3	Naphthalene	0.80 U	16.7	11.7	70	16.7	12.9	77	10	52-124/23
85-01-8	Phenanthrene	0.80 U	16.7	14.2	85	16.7	15.7	94	10	60-130/22
129-00-0	Pyrene	0.80 U	16.7	14.9	89	16.7	16.4	98	10	53-134/18

CAS No.	Surrogate Recoveries	MS	MSD	FA54906-7	Limits
4165-60-0	Nitrobenzene-d5	58%	63%	60%	41-129%
321-60-8	2-Fluorobiphenyl	75%	83%	80%	41-118%
1718-51-0	Terphenyl-d14	76%	84%	82%	45-145%

* = Outside of Control Limits.

GC/LC Semi-volatiles**QC Data Summaries**

7

Includes the following where applicable:

- **Method Blank Summaries**
- **Blank Spike Summaries**
- **Matrix Spike and Duplicate Summaries**

Method Blank Summary

Job Number: FA54891
Account: ATCFLM ATC Group Services LLC.
Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP70443-MB	YR18547.D	1	06/13/18	SJL	06/11/18	OP70443	GYR416

The QC reported here applies to the following samples: Method: FLORIDA-PRO

FA54891-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	ND	0.25	0.15	mg/l	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	94% 41-146%

7.1.1
7

Blank Spike Summary

Page 1 of 1

Job Number: FA54891

Account: ATCFLM ATC Group Services LLC.

Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP70443-BS	YR18548.D	1	06/13/18	SJL	06/11/18	OP70443	GYR416

The QC reported here applies to the following samples:

Method: FLORIDA-PRO

FA54891-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C8-C40)	0.85	0.771	91	51-121

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	101%	41-146%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA54891
Account: ATCFLM ATC Group Services LLC.
Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP70443-MS	YR18566.D	1	06/13/18	SJL	06/11/18	OP70443	GYR416
OP70443-MSD	YR18567.D	1	06/13/18	SJL	06/11/18	OP70443	GYR416
FA54884-4	YR18565.D	1	06/13/18	SJL	06/11/18	OP70443	GYR416

The QC reported here applies to the following samples: Method: FLORIDA-PRO

FA54891-1

CAS No.	Compound	FA54884-4 mg/l	Spike Q mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH (C8-C40)	0.24 U	1.63	1.72	105	1.63	1.60	98	7	51-121/29

CAS No.	Surrogate Recoveries	MS	MSD	FA54884-4	Limits
84-15-1	o-Terphenyl	120%	113%	107%	41-146%

* = Outside of Control Limits.

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA54891
Account: ATCFLM - ATC Group Services LLC.
Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

QC Batch ID: MP33873
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/13/18

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	14	14		
Antimony	6.0	1	1		
Arsenic	10	1.3	1.3		
Barium	200	1	1		
Beryllium	4.0	.2	.2		
Cadmium	5.0	.2	.2		
Calcium	1000	50	50		
Chromium	10	1	1		
Cobalt	50	.2	.2		
Copper	25	1	1		
Iron	300	17	17		
Lead	5.0	1	1.1	0.80	<5.0
Magnesium	5000	35	35		
Manganese	15	.5	1		
Molybdenum	50	.3	.3		
Nickel	40	.4	.4		
Potassium	10000	200	200		
Selenium	10	2.4	2.9		
Silver	10	.7	.7		
Sodium	10000	500	500		
Strontium	10	.5	.5		
Thallium	10	1.1	1.4		
Tin	50	.9	1		
Titanium	10	.5	1		
Vanadium	50	.5	.6		
Zinc	20	3	4.4		

Associated samples MP33873: FA54891-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA54891
 Account: ATCFLM - ATC Group Services LLC.
 Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

QC Batch ID: MP33873
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 06/13/18 06/13/18

Metal	FA54763-40 Original DUP		RPD	QC Limits	FA54763-40 Original MS		Spikelot MPFLICP2 % Rec		QC Limits
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium	anr								
Chromium	anr								
Cobalt									
Copper									
Iron	anr								
Lead	1.5	2.5	50.0 (a)	0-20	1.5	516	500	102.9	80-120
Magnesium									
Manganese	anr								
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium	anr								
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP33873: FA54891-1

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA54891
 Account: ATCFLM - ATC Group Services LLC.
 Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

QC Batch ID: MP33873
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 06/13/18

Metal	FA54763-40 Original MSD	Spikelot MPFLICP2 % Rec	MSD RPD	QC Limit
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Cadmium				
Calcium	anr			
Chromium	anr			
Cobalt				
Copper				
Iron	anr			
Lead	1.5	505	500	100.7
Magnesium				
Manganese	anr			
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium	anr			
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP33873: FA54891-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA54891
 Account: ATCFLM - ATC Group Services LLC.
 Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

QC Batch ID: MP33873
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 06/13/18

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Cadmium				
Calcium	anr			
Chromium	anr			
Cobalt				
Copper				
Iron	anr			
Lead	512	500	102.4	80-120
Magnesium				
Manganese	anr			
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium	anr			
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP33873: FA54891-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

8.1.3
8

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA54891
 Account: ATCFLM - ATC Group Services LLC.
 Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

QC Batch ID: MP33873
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 06/13/18

FA54763-40		QC	
Metal	Original SDL 1:5	%DIF	Limits
Aluminum			
Antimony			
Arsenic			
Barium			
Beryllium			
Cadmium			
Calcium	anr		
Chromium	anr		
Cobalt			
Copper			
Iron	anr		
Lead	1.50	0.00	100.0(a) 0-10
Magnesium			
Manganese	anr		
Molybdenum			
Nickel			
Potassium			
Selenium			
Silver			
Sodium	anr		
Strontium			
Thallium			
Tin			
Titanium			
Vanadium			
Zinc			

Associated samples MP33873: FA54891-1

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: FA54891
 Account: ATCFLM - ATC Group Services LLC.
 Project: Jak Service Center(United Fuel); 6900 SW 8th St, Miami, FL

QC Batch ID: MP33873
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date:

06/13/18

Metal	Sample ml	Final ml	FA54763-40 Raw	PS Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead	9.8	10	1.5	1.47	48.4	0.2	2.5	50	93.9	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP33873: FA54891-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (**) Corr. sample result = Raw * (sample volume / final volume)
 (anr) Analyte not requested

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: <u>Jak Service Center dba United Fuel</u>		SITE LOCATION: <u>6900 SW 8th St, Miami, FL</u>	
WELL NO: <u>MW 1</u>		SAMPLE ID: <u>MW 1</u>	
DATE: <u>02/21/2018</u>			

PURGING DATA

WELL DIAMETER (inches): <u>2.0</u>	TUBING DIAMETER (inches): <u>0.25</u>	WELL SCREEN INTERVAL DEPTH: <u>9.1</u> feet to <u>19.1</u> feet	STATIC DEPTH TO WATER (feet): <u>6.70</u>	PURGE PUMP TYPE OR BAILER: <u>PP</u>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (<u>19.1</u> feet - <u>6.70</u> feet) X <u>0.16</u> gallons/foot = <u>1.98</u> gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>8.0</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>8.0</u>	PURGING INITIATED AT: <u>11:25</u>	PURGING ENDED AT: <u>12:05</u>	TOTAL VOLUME PURGED (gallons): <u>5.86</u>

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:30	0.75	0.75	0.15	6.75	6.30	26.61	529	0.47	6.70	clear	sl pet
11:34	0.60	1.25	0.15	6.75	6.45	26.83	528	0.66	4.63	clear	sl pet
11:40	0.90	2.15	0.15	6.75	6.50	26.92	522	0.44	2.68	clear	sl pet
11:45	0.75	3.00	0.15	6.75	6.50	26.84	519	0.41	2.34	clear	sl pet
11:50	0.75	3.75	0.15	6.75	6.47	26.96	517	0.36	1.76	clear	sl pet
11:55	0.75	4.50	0.15	6.75	6.47	26.94	516	0.34	1.52	clear	sl pet
12:04	0.75	5.85	0.15	6.75	6.50	26.95	515	0.30	1.32	clear	sl pet

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

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>Leif Rodney / ATC</u>				SAMPLER(S) SIGNATURE(S): <u>Leif Rodney</u>				SAMPLING INITIATED AT: <u>12:05</u>		SAMPLING ENDED AT: <u>12:15</u>	
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE: <u>HDPE / S</u>				FIELD-FILTERED: Y <u>(N)</u>		FILTER SIZE: _____ μm	
FIELD DECONTAMINATION: PUMP Y <u>(N)</u>				TUBING Y <u>(N)</u> (replaced)				DUPLICATE: Y <u>(N)</u>			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW 1	1	AG	1 L	H ₂ SO ₄	—	<2	FL-Pro TRPH	APP	200
MW 1	2	AG	250 mL	None	—	6.50	8270C	APP	200
MW 1	3	CG	100 mL	HCL	—	<2	8260B	APP	100

REMARKS:

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

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

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

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

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

SITE NAME: Jak Service Center dba United Fuel		SITE LOCATION: 6900 SW 8th St, miami, FL	
WELL NO: MW 2		DATE: 02/21/2018	

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 8.1 feet to 18.1 feet	STATIC DEPTH TO WATER (feet): 6.71	PURGE PUMP TYPE OR BAILER: PP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
= (18.1 feet - 6.71 feet) X 0.16 gallons/foot = 1.82 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
= gallons + (gallons/foot X feet) + gallons = gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8.0	PURGING INITIATED AT: 14:30	PURGING ENDED AT: 14:56	TOTAL VOLUME PURGED (gallons): 6.1

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

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

SAMPLED BY (PRINT) / AFFILIATION: Leif Rodney / ATC				SAMPLER(S) SIGNATURE(S): <i>Leif Rodney</i>			SAMPLING INITIATED AT: 15:01		SAMPLING ENDED AT: 15:04		
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE: HDPE / S			FIELD-FILTERED: Y (N) Filtration Equipment Type:		FILTER SIZE: _____ µm		
FIELD DECONTAMINATION: PUMP Y (N)				TUBING Y (N) (replaced)			DUPLICATE: Y (N)				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
MW 2	1	AG	1 L	H ₂ SO ₄	-	<2	FL-P ₆ TRPH		APP	200	
MW 2	2	AG	250mL	None	-	6.73	8270 C		APP	200	
MW 2	3	CG	100mL	HCL	-	<2	8260 B		APP	100	

REMARKS:

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

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

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

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

SITE NAME: Jak Service Center aka United Fuel		SITE LOCATION: 6900 SW 8th St, Miami, FL	
WELL NO: MW 3		SAMPLE ID: MW 3	
		DATE: 02/21/2018	

WELL DIAMETER (inches): 2.0		TUBING DIAMETER (inches): 0.25		WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet		STATIC DEPTH TO WATER (feet): 6.69		PURGE PUMP TYPE OR BAILER: PP			
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) $= (12 \text{ feet} - 6.69 \text{ feet}) \times 0.16 \text{ gallons/foot} = 0.85 \text{ gallons}$											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) $= \quad \text{gallons} + (\quad \text{gallons/foot} \times \quad \text{feet}) + \quad \text{gallons} = \quad \text{gallons}$											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8.00			FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8.0			PURGING INITIATED AT: 13:50		PURGING ENDED AT: 14:11		TOTAL VOLUME PURGED (gallons): 3.1	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
13:55	1.00	1.00	0.20	6.70	26.59 → 6.92		366	0.21	2.16	none	sl pet
14:05	1.00	2.00	0.20	6.70	6.73 26.47		400	0.30	1.12	none	sl pet
14:10	1.00	3.00	0.20	6.70	6.69 26.49		407	0.27	1.61	none	sl pet
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0028; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLED BY (PRINT) / AFFILIATION:				SAMPLER(S) SIGNATURE(S):			SAMPLING INITIATED AT:		SAMPLING ENDED AT:	
Leif Rodney / ATC				Ly - Rods			14:11		14:21	
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE: HDPE / S			FIELD-FILTERED: Y (N) Filtration Equipment Type:		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP Y (N)				TUBING Y (N) (replaced)			DUPLICATE: Y (N)			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
MW B	1	AG	1 L	H ₂ SO ₄	—	< 2	FL-Pro TRPH	APP	200	
MW 3	2	AG	250 mL	None	—	6.69	8270 C	APP	200	
MW 3	3	CG	100 mL	HCL	—	< 2	8260 B	APP	100	
REMARKS:										
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)										
SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)										

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

SITE NAME: Jak Service Center dba United Fuel		SITE LOCATION: 6900 SW 8th St, miami, FL	
WELL NO: MW 4		SAMPLE ID: MW 4	
		DATE: 02/21/2018	

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 9.3 feet to 19.3 feet	STATIC DEPTH TO WATER (feet): 6.82	PURGE PUMP TYPE OR BAILER: PP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
= (19.3 feet - 6.82 feet) X 0.16 gallons/foot = 2.00 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
= gallons + (gallons/foot X feet) + gallons = gallons				

[illegible]

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

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

SAMPLED BY (PRINT) / AFFILIATION: Leif Rodney / ATC				SAMPLER(S) SIGNATURE(S): <i>Leif Rodney</i>			SAMPLING INITIATED AT: 13:26		SAMPLING ENDED AT: 13:36	
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE: HDPE / S			FIELD-FILTERED: Y (N) Filtration Equipment Type:		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP Y (N)				TUBING Y (N) (replaced)			DUPLICATE: Y (N)			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
MW 4	1	AG	1L	H ₂ SO ₄	—	< 2	FL Pro TRPH		APP	200
MW 4	2	AG	250 mL	None	—	6.47	8270 C		APP	200
MW 4	3	CG	100 mL	HCL	—	< 2	8260 B		APP	100

REMARKS:

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

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

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

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

SITE NAME: Jak Service Center dba United Fuel		SITE LOCATION: 6900 SW 8th St, miami, FL	
WELL NO: MW 5		DATE: 02/21/2018	

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 4.7 feet to 14.7 feet	STATIC DEPTH TO WATER (feet): 6.44	PURGE PUMP TYPE OR BAILER: PP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (14.7 feet - 6.44 feet) X 0.16 gallons/foot = 1.32 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8.5	PURGING INITIATED AT: 12:32	PURGING ENDED AT: 12:53	TOTAL VOLUME PURGED (gallons): 4.10

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

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

SAMPLED BY (PRINT) / AFFILIATION: Leif Rodney / ATC				SAMPLER(S) SIGNATURE(S): <i>Leif Rodney</i>			SAMPLING INITIATED AT: 12:53		SAMPLING ENDED AT: 13:03	
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE: HDPE / S			FIELD-FILTERED: Y N Filtration Equipment Type:		FILTER SIZE: ____ µm	
FIELD DECONTAMINATION: PUMP Y N				TUBING Y N (replaced)			DUPLICATE: Y N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
MW 5	1	AG	1L	H ₂ SO ₄	—	6.2	FL Pro TRPH		APP	200
MW 5	2	AG	250 mL	None	—	7.22	8270 C		APP	200
MW 5	3	CG	100 mL	HCL	—	6.2	8260 B		APP	100

REMARKS:

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

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

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

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

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

SITE NAME: Jak Service Center abal United Fuel		SITE LOCATION: 6900 SW 8th St, miami, FL	
WELL NO: MW 6		DATE: 02/21/2018	

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 3.3 feet to 13.3 feet	STATIC DEPTH TO WATER (feet): 5.81	PURGE PUMP TYPE OR BAILER: PP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (13.3 feet - 5.81 feet) X 0.16 gallons/foot = 1.20 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8.00	PURGING INITIATED AT: 11:47	PURGING ENDED AT: 12:08	TOTAL VOLUME PURGED (gallons): 4.10

[illegible]

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

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

SAMPLED BY (PRINT) / AFFILIATION: Leif Rodneys / ATC		SAMPLER(S) SIGNATURE(S): <i>Leif Rodneys</i>		SAMPLING INITIATED AT: 12:08	SAMPLING ENDED AT: 12:18
PUMP OR TUBING DEPTH IN WELL (feet):		TUBING MATERIAL CODE: HDPE / S	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	FILTER SIZE: ____ µm	

FIELD DECONTAMINATION:	PUMP	Y	N	TUBING	Y	N(replaced)	DUPLICATE:	Y	N
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[illegible]

REMARKS:

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

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

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

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

SITE NAME: Jak Service Center dba United Fuel		SITE LOCATION: 6900 SW 8th St, miami, FL	
WELL NO: MW 7		DATE: 02/21/2018	

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 3 feet to 13 feet	STATIC DEPTH TO WATER (feet): 6.39	PURGE PUMP TYPE OR BAILER: PP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
= (13 feet - 6.39 feet) X 0.16 gallons/foot = 1.06 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
= gallons + (gallons/foot X feet) + gallons = gallons				

[illegible]

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

SAMPLED BY (PRINT) / AFFILIATION: Leif Rodney / ATC				SAMPLER(S) SIGNATURE(S): <i>Leif Rodney</i>			SAMPLING INITIATED AT: 10:26		SAMPLING ENDED AT: 10:38	
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE: HDPE / S			FIELD-FILTERED: Y (N) Filtration Equipment Type:		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP Y (N)				TUBING Y (N) (replaced)			DUPLICATE: Y (N)			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
MW 7	1	AG	1L	H2SO4	—	<2	FL-Pro TRPH		APP	200
MW 7	2	AG	250mL	None	—	6.71	8270 C		APP	200
MW 7	1	HDPE	250mL	HNO3	—	<2			APP	200
MW 7	3	CG	100mL	Sodium Thiosulfate	—	<2			APP	100
MW 7	3	CG	100mL	HCl	—	<2	8260 B		APP	100

REMARKS:

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

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

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

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

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Jak Service Center dba United Fuel		SITE LOCATION: 6900 SW 8th St, miami, FL	
WELL NO: MW 8		DATE: 02/21/2018	

PURGING DATA

[illegible]

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Leif Rodney / ATC				SAMPLER(S) SIGNATURE(S): <i>Leif Rodney</i>			SAMPLING INITIATED AT: 11:26		SAMPLING ENDED AT: 11:36	
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE: HDPE / S			FIELD-FILTERED: Y (N) Filtration Equipment Type:		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP Y (N)				TUBING Y (N) (replaced)			DUPLICATE: Y (N)			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
MW 8	1	AG	1L	H ₂ SO ₄	—	<2	FL-Pro TRPH		APP	200
MW 8	2	AG	250mL	None	—	6.50	8270 C		APP	200
MW 8	3	CG	100mL	HCL	—	<2	8260 B		APP	100
REMARKS:										
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)										
SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)										

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

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

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

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Jak Service Center dba United Fuel		SITE LOCATION: 6900 SW 8th St, miami, FL	
WELL NO: MW B		DATE: 02/21/2018	

PURGING DATA

WELL DIAMETER (inches): 2.0		TUBING DIAMETER (inches): 0.25		WELL SCREEN INTERVAL DEPTH: 4.6 feet to 14.6 feet		STATIC DEPTH TO WATER (feet): 6.89		PURGE PUMP TYPE OR BAILER:		PP	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) $= (14.6 \text{ feet} - 6.89 \text{ feet}) \times 0.16 \text{ gallons/foot} = 1.23 \text{ gallons}$											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) $= \text{gallons} + (\text{gallons/foot} \times \text{feet}) + \text{gallons} = \text{gallons}$											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8.5			FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8.5			PURGING INITIATED AT: 13:17		PURGING ENDED AT: 13:44		TOTAL VOLUME PURGED (gallons): 4.10	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
13:22	0.50	0.50	0.10	6.92	7.04	27.23	253	1.19	4.00	clear	none
13:27	0.75	1.25	0.15	6.92	7.12	27.44	242	0.77	2.41	clear	none
13:32	0.75	2.00	0.15	6.92	7.15	27.42	242	0.70	2.61	clear	none
13:42	2.00	4.00	0.20	6.92	7.13	27.21	239	0.51	1.72	clear	none
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Leif Rodney / ATC				SAMPLER(S) SIGNATURE(S): <i>Ly. Rodney</i>			SAMPLING INITIATED AT: 13:44		SAMPLING ENDED AT: 13:54	
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE: HDPE / S			FIELD-FILTERED: Y (N)		FILTER SIZE: ____ µm	
FIELD DECONTAMINATION: PUMP Y (N)				TUBING Y (N) (replaced)			DUPLICATE: Y (N)			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
MW B	1	AG	1L	H ₂ SO ₄	—	<2	FL-Pro TRPH	APP	200	
MW B	2	AG	250mL	None	—	7.13	S276 C	APP	200	
MW B	3	CG	100mL	HCL	—	<2	S260 B	APP	100	
REMARKS:										
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)										
SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)										

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

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

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

SITE NAME: Junk Service Center Dba United Fuel		SITE LOCATION: 6900 Sw 8th St, Miami, FL	
WELL NO: MW 9	SAMPLE ID: MW 9	DATE: 06/07/2018	

WELL DIAMETER (inches):	1.50	TUBING DIAMETER (inches):	0.25	WELL SCREEN INTERVAL DEPTH: 2.7 feet to 10.7 feet	STATIC DEPTH TO WATER (feet): 6.33	PURGE PUMP TYPE OR BAILER: PP
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(only fill out if applicable)

(only fill out if applicable)

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

TOTAL VOLUME
PURGED (gallons): 2.10

ORP
40.8
20.2
①.6
-25.9

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

SAMPLED BY (PRINT) / AFFILIATION: Zarif Rodney / A.T.C.	SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>	SAMPLING INITIATED AT: 11:18	SAMPLING ENDED AT: 11:26
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SAMPLING
INITIATED AT: 11:18

SAMPLING
ENDED AT: 11:26

FIELD-FILTERED: Y (N)
Filtration Equipment Type:

FILTER SIZE: _____ μm

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced)

DUPLICATE: Y (N)

[illegible]

REMARKS:

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

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

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

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

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

FT 1000 General Field Testing and Measurement

APPENDIX F

FDEP PURCHASE ORDER B22481 AND CHANGE ORDER 1



CHANGED: Order No. B22481

Version Number: 2
Internal Version: false
Issued on Mon, 30 Apr, 2018
Created on Mon, 30 Apr, 2018 by Ariba System

Supplier:

ATC Group Services, LLC
5602 Thompson Center Ct, Suite 405
Tampa, FL 33634
United States
Phone: 1813-889-8960
Fax: 1813-889-8754
Contact: Kurt Juntunen

Ship To:

DEP-PETROLEUM RESTORATION PROGRAM
BMC RM 420 MS 4575
2600 BLAIR STONE RD
TALLAHASSEE, FL 32399
United States

Deliver To:

Caroline Herman

Bill To:

DEP-PETROLEUM RESTORATION PROGRAM
BMC RM 420 MS 4575
2600 BLAIR STONE RD
TALLAHASSEE, FL 32399
United States

Entity Description: Department of Environmental Protection
Organization Code: 37450404555
Object Code: 000000-131545
Expansion Option: JG
Exemption Status: No
Exemption Reason?:

Item	Action	Description	Part Number	Unit	Qty	Need By	Unit Price	Extended Amount
1	Modified	Contractor has been selected to perform a Low...		Dollar	29,674.45	None	\$1.00000 USD	\$29,674.45000 USD
<p>Contractor has been selected to perform a Low Score Assessment (LSA) at the Jak Service Center Inc DBA United Fuel, 6900 SW 8th St, Miami, Miami-Dade County, Florida, FAC ID 138503663. Attachment A, Scope of Work, attached to the purchase order (PO) describes the work to be completed by the Contractor. All work shall be performed in accordance with the terms of the Agency Term Contract (ATC). The PRP reference number for this project is 844-036A.</p> <p>Attache</p> <p>d hereto and made a part of this PO is Attachment B - Schedule of Pay Items and Other Related Documents. Pay Items are at or below the negotiated maximum rates included in the ATC. Contractor must submit the appropriate completed documents from Attachment B to the Site Manager with each deliverable, as instructed. Upon completion and approval of all work under this PO, Contractor shall submit a signed Release of Claims document, along with the final invoice. Contractor must include Subcontractor Utilization Report form, included as a tab on Attachment B, with each invoice.</p> <p>The Department will retain 5% of the total amount of each payment made. Contractor may submit a request for release of retainage upon completion, and DEP approval of, all work performed under this PO.</p> <p>The Department will evaluate the Contractor as specified in the Agency Term Contract.</p> <p>The Contractor agrees to perform the services described in the PO in accordance with the terms of its ATC (as those terms may have been amended) which are in effect on date of issuance of the PO. The applicable ATC terms are available at the following URL: https://facts.fldfs.com/Search/ContractDetail.aspx?AgencyId=370000&ContractId=GC844</p>								

Distributors?: N
Requester: Caroline Herman (Contracts)
Ship To Code: DEP305S

State Contract ID:
 Contract ID:
 Requester Phone:
 PR No.: PR10316460-V2
 MyGreenFlorida Content: N
 Method of Procurement: J - Agency ITN [s 287.057(1) (c), F.S.]
 Shipping Method: Best Way
 FOB Code: INC-Dest
 FOB Code Description: Destination freight paid by vendor and included in price. Title passes upon receipt. Vendor files any claims.
 Encumber Funds: Yes
 PO Start Date: Wed, 15 Nov, 2017
 PO End Date: Wed, 31 Oct, 2018
 Fiscal Year Indicator: 2018
 PUI#: 3701
 Site Code: 370000-12
 Terms and Conditions: http://dms.myflorida.com/mfmp_PO_TC
 P Card Order?: No

	Total	\$29,674.45000
		USD

Changes

- Purchase Order TimeCreated changed from Wed, 15 Nov, 2017 to Mon, 30 Apr, 2018
- Purchase Order ContentLength changed from 1385747 to 1386677
- Purchase Order Filename changed from Attachment B - Schedule of Pay Items & Other Related Documents - 138503663.xlsm to Attachment B (Revision 1) - Schedule of Pay Items & Other Related Documents - 138503663.xlsm
- Purchase Order StoredFilename changed from 10922533 to 11381982
- Purchase Order Date changed from Tue, 14 Nov, 2017 to Mon, 30 Apr, 2018
- Purchase Order Attachments 3 changed from (no value) to [ariba.approvable.core.AttachmentWrapper [BaseId 95432898755 17uaa7yb.d6]]
- Purchase Order Total ordered changed from \$27,041.76000 USD to \$29,674.45000 USD
- Line Item 1, Accounting, Accounting 1, ERPTransactionDate changed from 11152017 to 04302018
- Line Item 1, Accounting, Accounting 1, ERPMessage changed from SUCCESSFUL ENCUMBRANCE 60S to SUCCESSFUL ENCUMBRANCE 6SU
- Line Item 1, Accounting, Accounting 1, CurrentFLAIRAmount changed from 20,626.39 to 23,259.08
- Line Item 1, Accounting, Accounting 1, RoundedAmount changed from \$27,041.76000 USD to \$29,674.45000 USD
- Line Item 1, Quantity changed from 27,041.76 to 29,674.45
- Line Item 1, ERPTransactionDate changed from 11152017 to 04302018
- Line Item 1, LI Amount Recorder in FLAIR changed from \$27,041.76000 USD to \$29,674.45000 USD
- Line Item [BaseId 95432898700 17uaa7ws.6c] was deleted

Comments

- Jordan Riedel (Contracts), 11/14/2017:
The following attachments are attached hereto and made a part of this Purchase Order.
Attachment A – Scope of Work
Attachment B – Schedule of Pay Items and Other Related Documents (Jordan Riedel (Contracts), Tue, 14 Nov, 2017)
- COMMENT by **Vicki Chatelain (Contracts)** on 11/15/2017
Note: Attachment B language appearing in upper right-hand corner titled "Less Surcharge" is used by the program to identify the total cost less the 6% handling and MFMP fee on reimbursable items. This information is only used as a check point for PRP staff. The total PO amount for the project is the amount appearing in the "Total Extended Cost" section in the upper right-hand side of the spreadsheet. (Vicki Chatelain (Contracts), Wed, 15 Nov, 2017)
- Jordan Riedel (Contracts), 04/30/2018:
Change Order (CO) #1, Tasks #3-4 (referred to as "PO B22481 - CO 1, Tks 3-4 & PO End Date - 138503663," below) is attached hereto and made part of this Purchase Order (PO) to increase the PO amount by \$2,632.69 (new PO total \$29,674.45), and extends the task deliverable due dates & PO End Date as follows:

Task #3 is extended to 06/29/18
 Task #4 is extended to 08/29/18
 PO End Date is extended to 10/31/18

Attachment B (Revision 1) is attached hereto and made a part of this PO to replace Attachment B in its entirety.

It is understood that should the due date for a deliverable fall on a weekend or State observed holiday, the due date will be recognized as the next State business day.

All other terms and conditions of the PO remain unchanged. (Jordan Riedel (Contracts), Mon, 30 Apr, 2018)

- COMMENT by **Magen Greene (Contracts)** on 04/30/2018
Contractor has provided the DEP with quotes for some of the activities for this project. The terms and conditions of the DEP Agency Term Contract (ATC) apply to and control all work performed by Contractor, and DEP does not accept, agree to, or incorporate any other terms and conditions. Any terms and conditions negotiated between Contractor and any subcontractors or suppliers that seek to supplement, or are in conflict with the ATC, are not binding on or apply to the Contractor and DEP's contractual relationship. Contractor bears the risk that additional terms and conditions negotiated between it and subcontractors or suppliers will delay, interfere with or frustrate its performance under the ATC. (Magen Greene (Contracts), Mon, 30 Apr, 2018)

Attachments

- ATTACHMENT by **Jordan Riedel (Contracts)** on *Tuesday, November 14, 2017 at 3:26 PM*
Attachment A - LSA Scope of Work - 138503663.pdf (124977 bytes)
- ATTACHMENT by **Jordan Riedel (Contracts)** on *Monday, April 30, 2018 at 8:12 AM*
Attachment B (Revision 1) - Schedule of Pay Items & Other Related Documents - 138503663.xlsm (1386677 bytes)
- ATTACHMENT by **Jordan Riedel (Contracts)** on *Monday, April 30, 2018 at 8:12 AM*
PO B22481 - CO 1, Tks 3-4 & PO End Date - 138503663.pdf (934972 bytes)

Attachment A
Petroleum Restoration Program
Scope of Work

9-Digit Facility ID Number: 138503663

STCM Facility Name: JAK SERVICE CENTER INC DBA UNITED FUEL

SubPhase(s): LSA

Specifications

All work must be performed in accordance with this Scope of Work (SOW) and any attachments, Chapters 62-160, 62-532, 62-777 and 62-780, F.A.C., all applicable FDEP and Water Management District guidance memoranda, standard industry procedures and as described in the Agency Term Contract (ATC).

Copies of all referenced guidelines are available at:

<http://www.dep.state.fl.us/waste/categories/pcp/default.htm>

Reports must be submitted using the appropriate FDEP forms found at:

http://www.dep.state.fl.us/waste/categories/pcp/pages/pg_documents.htm

All work must be conducted in accordance with PRP Standard Specification Details found at:

<http://www.dep.state.fl.us/waste/categories/pcp/pages/templates.htm>

The following tables are included as attachments to this SOW and further represent the details of the scope of work.

- ☒ Water Sampling Table
- ☒ Soil and Air Sampling Table
- ☒ Soil Boring (SB) and Well Installation Table

Task 1 Description:	Perform a thorough File Review. Prepare a Health & Safety Plan. Mobilize to the site to perform a site reconnaissance, and perform well gauging of up to thirteen (13) onsite monitoring wells. Prepare a modified assessment proposal. Please note that per the DEP site access agreement, a separate site access agreement between the owner and the ATC has been requested by the property owner or tenant. Submit an email or letter (copying the owner or tenant) indicating either that this separate site access agreement has been executed or that the owner no longer wants such an agreement with the contractor (the owner is content with the current DEP site access agreement). The DEP does not need a copy of this agreement.
Task 1 Deliverable:	Health & Safety Plan. Historical Summary Worksheet. Field notes and photo documentation from the site reconnaissance including a summary of the site reconnaissance visit, and a proposal for modified site assessment in the next task. Email/letter confirming the ATC/Owner site access agreement is executed or that the Owner has retracted its request for a separate agreement with the ATC.
Task 1 Deliverable Due Date:	Monday, January 29, 2018
Task 2 Description:	Contingent upon written approval from FDEP. Collect and analyze groundwater samples from up to thirteen (13) on site monitoring wells. Prepare an Interim Assessment Report.
Task 2 Deliverable:	Interim Assessment Report including updated tables and figures, field notes, groundwater sampling logs, laboratory reports, and recommendations.
Task 2 Deliverable Due Date:	Friday, March 30, 2018
Task 3 Description:	Contingent upon written approval from FDEP. Advance soil borings (screening & sampling), collect soil samples. Due to the local limestone lithology, HSA is being used instead of hand augering. Prepare an Interim Assessment Report.

Attachment A
Petroleum Restoration Program
Scope of Work

9-Digit Facility ID Number: 138503663

STCM Facility Name: JAK SERVICE CENTER INC DBA UNITED FUEL

Task 3 Deliverable: Interim Assessment Report including updated tables and figures, boring logs, field notes, laboratory reports, and recommendations.

Task 3 Deliverable Due Date: Tuesday, May 29, 2018

Task 4 Description: Mobilize to the site to dispose of any IDW generated during assessment activities. Contingent upon written approval from FDEP. Prepare and submit a General Site Assessment Report in the TSAR format, including the Site Screening Information tab of the Site Screening Workbook (located at <http://www.dep.state.fl.us/waste/categories/pcp/pages/screening.htm>). Contingent funding in this task is only to be used to offset the cost for pay items associated with a Field Request for Change for any open task.

Task 4 Deliverable: General Site Assessment Report and disposal manifests.

Task 4 Deliverable Due Date: Monday, July 30, 2018

PO End Date: Monday, October 1, 2018

Schedule of Pay Items (SPI)

All unit rates and extended prices for all line item costs associated with this project are provided in the SPI [Attachment B to this Purchase Order (PO)] and shall not exceed the rates established in the ATC.

Requests for Change (RFC)

All requests for changes to the SOW must be submitted in writing and be approved in writing by the FDEP/LP using the RFC form in accordance with paragraphs 2.A and 26 of the ATC and can be found at:

<http://www.dep.state.fl.us/waste/categories/pcp/pages/templates.htm>

Any change which results in an extension of the due dates, PO end date, or a change in quantities or costs, requires that a PO Change Order be formally issued prior to performance of the revised SOW.

Performance Measures

The FDEP/LP Site Manager will review the submitted documentation to confirm that all work was performed in accordance with the Specifications referenced above. The FDEP/LP Site Manager will notify the Contractor of acceptance or any deficiencies in the work and/or deliverables. The Contractor will be given an opportunity to remedy deficiencies at no additional cost to the FDEP.

The FDEP/LP Site Manager will review the work and/or deliverables within the timeframes established in FDEP guidance documents. The Contractor will respond to any comments to complete the work and/or deliverables within the timeframe established in the comment letter or email correspondence.

Invoicing, Payments and Financial Consequences

The Contractor may submit an invoice for a Task upon written notification of acceptance of the work/deliverables by the FDEP/LP Site Manager. Upon receipt of FDEP/LP written approval of the required documentation for completed portions of each task, the Contractor must submit an invoice. Invoices for completed work may be submitted no more frequently than every thirty (30) days, or upon completion of the individual tasks as specified. Each invoice request must contain all documentation of performance as specified in the ATC, this Purchase Order (PO), and its attachments.

Failure to provide all deliverables, failure to provide deliverables which are satisfactory or failure to meet the specified deliverable timetables, shall result in non-payment, loss of retainage, or other financial consequences, and/or termination of the PO, as specified in the ATC. If the deliverable due day occurs on a weekend, state holiday, or federal holiday the deliverable will be due the following business day.

Attachment A
Petroleum Restoration Program
Scope of Work

9-Digit Facility ID Number: 138503663

STCM Facility Name: JAK SERVICE CENTER INC DBA UNITED FUEL

Retainage shall be withheld in the amount of 5%, unless otherwise noted in the SPI, from each payment by the FDEP/LP until completion and approval of all Tasks. The Contractor shall submit a Release of Claims and request for retainage payment with the final invoice. Payment of retainage will be reduced by the amount of any assessed financial consequences.

Notice of Field Activities

The Contractor must provide written notification (emails are acceptable) of field activities at least seven (7) calendar days prior to the commencement of work to all applicable parties including the PRP site manager, PRP Inspector (PRP_Inspector@dep.state.fl.us), site operator, site owner, RP and affected off-site property owners.

Florida Department of Environmental Protection - Petroleum Restoration Program

FDEP Facility ID#: 138503663

STCM Facility Name: JAK SERVICE CENTER INC DBA UNITED FUEL

Any blank fields are not applicable to the scope of work.

WATER SAMPLING TABLE																				
Task #	Well #(s) or Water Sample Location	Frequency (if applicable)	Expedited Turnaround (TA)	Water Level/FP Gauging Only (8-7.)	# MWs Sampled (8-1./8-2.)	(9-27.) BTEX + MTBE	(9-30.) PAHs	(9-36.) TRPH (FL-PRO)	(9-25.) GAG/KE G - Table C	(9-41.) Lead, Total										
1	Gauge Existing Monitoring Wells			13																
2	Existing Monitoring Wells				13	12	12	12	1											
3	TCLP Leachate					1				1										
3	SPLP Leachate					5	5													
Task 1 Subtotal				13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Task 2 Subtotal				0	13	12	12	12	1	0	0	0	0	0	0	0	0	0	0	0
Task 3 Subtotal				0	0	6	5	0	0	1	0	0	0	0	0	0	0	0	0	0
GRAND TOTALS				13	13	18	17	12	1	1	0	0	0	0	0	0	0	0	0	0

Florida Department of Environmental Protection - Petroleum Restoration Program

FDEP Facility ID#: 138503663

STCM Facility Name: JAK SERVICE CENTER INC DBA UNITED FUEL

Any blank fields are not applicable to the scope of work.

SOIL and AIR SAMPLING TABLE																		
Task #	Soil /Air Sample Locations	Frequency (if applicable)	Expedited Turnaround (TA)	Depth Interval (if applicable)	(9-2.) BTEX + MTBE	(9-5.) PAHs	(9-8.) TRPH (FL-PRO)	(9-8.a.) TRPH Fractionation	(9-11.) Arsenic	(9-12.) Cadmium	(9-13.) Chromium	(9-14.) Lead	(9-15.) TCLP-Extraction Only	(9-16.) SPLP-Extraction Only				(8-14.) Encore Sampler
3	Soil Samples (TBD)			Highest OVA or the 2' interval directly above the water table	5	5	5	5						10				5
3	Waste Characterization TCLP				1				1	1	1	1	2					
Task 2 Subtotal					0	0	0	0	0	0	0	0	0	0	0	0	0	0
GRAND TOTALS					6	5	5	5	1	1	1	1	2	10	0	0	0	5

Florida Department of Environmental Protection - Petroleum Restoration Program

FDEP Facility ID#: 138503663

STCM Facility Name: JAK SERVICE CENTER INC DBA UNITED FUEL

Any blank fields are not applicable to the scope of work.

SOIL BORING (SB) and WELL INSTALLATION TABLE																	
SOIL BORING DETAILS					Screening/Split Spoon Intervals			WELL INSTALLATION DETAILS									
TASK #	Installation Method	Quantity	Depth (ft bls)	Total Boring Footage (ft)	Screening Depth Interval 1 & Spacing	Screening Depth Interval 2 & Spacing	Screening Depth Interval 3 & Spacing	Quantity	Well Type	Well Diameter (in)	Depth (ft bls)	Screen Interval (ft bls)	Total Well Footage (ft)	Surface Casing Diameter (in)	Surface Casing Depth (ft)	Total Casing Footage (ft)	Well Completion Type
3	HSA/MR	5	6	30	0-6'@2'								0			0	
TOTALS				30									0			0	

**Petroleum Contamination Site Response Action Services
SCHEDULE OF PAY ITEMS INVOICE RATE SHEET**

DETAIL INVOICE, Page 2 of 3

Facility Name: JAK SERVICE CENTER INC DBA UNITED FUEL
7-Digit Facility ID #: 8503663
County: 13
Region: South
Site Manager Name: CAROLINE HERMAN
Site Manager Phone: (305)372-6856
Site Manager Email: caroline.herman@miamidade.gov

Contractor: ATC GROUP SERVICES, LLC

CID #:	00787	Retainage %:	5%	Purchase Order:	B22481
Contract #:	GC844	FDEP Cost Share %:	100.00%	Download Date:	10/30/17 11:37
SPI ID #:	10895	Total Extended Cost:	\$ 29,674.45	Assignment Type:	CSF
		Without Handling Fee:	\$ 29,641.67		

Transition Agreement: ☐ Yes ☒ No

			PO Rate Sheet			Previously Invoiced	This Invoice		Balance
PAY ITEM	DESCRIPTION	UNIT OF MEASURE	UNITS	NEGOTIATED ITEM PRICE	TOTAL EXTENDED PRICE	UNITS	UNITS	EXTENDED PRICE	UNITS
Task 1									
1-1.	File Review	Per Review	1	\$ 350.00	\$ 350.00	1	0	\$ -	0
1-2.	Site Health & Safety Plan	Per Site	1	\$ 200.00	\$ 200.00	1	0	\$ -	0
2-1.	Site Reconnaissance/Field Measurement Visit	Per Visit	1	\$ 600.00	\$ 600.00	1	0	\$ -	0
3-1.	Mobilization, Light Duty Vehicle (car or 1/2 ton truck) - ≤ 100 miles each way	Per Round Trip	1	\$ 374.50	\$ 374.50	1	0	\$ -	0
8-7.	Water Level or Free Product Gauging	Per Well	13	\$ 15.00	\$ 195.00	10	0	\$ -	3
		RETAINAGE			\$ 85.98	\$ 83.73		\$ -	\$ 2.25
		SUBTOTAL			\$ 1,719.50	\$ 1,674.50		\$ -	\$ 45.00
Task 2									
3-1.	Mobilization, Light Duty Vehicle (car or 1/2 ton truck) - ≤ 100 miles each way	Per Round Trip	1	\$ 374.50	\$ 374.50	1	0	\$ -	0
8-1.	Monitoring Well Sampling with Water Level, ≤ 100 foot depth	Per Well	13	\$ 165.00	\$ 2,145.00	9	0	\$ -	4
8-11.	Electronic Data Deliverables (EDD)	Per Sampling Event	1	\$ 125.00	\$ 125.00	1	0	\$ -	0
9-25.	Water, Gasoline/Kerosene Analytical Group-Table C of Ch. 62-780, F.A.C. (multiple methods)	Per Sample	1	\$ 240.75	\$ 240.75	1	0	\$ -	0
9-27.	Water, BTEX + MTBE (EPA 602, EPA 624, EPA 8021 or EPA 8260)	Per Sample	12	\$ 34.00	\$ 408.00	8	0	\$ -	4
9-30.	Water, Polycyclic Aromatic Hydrocarbons, including 1-methylnaphthalene + 2-methylnaphthalene (EPA 610 [HPLC], EPA 625, EPA 8270 or EPA 8310)	Per Sample	12	\$ 80.25	\$ 963.00	8	0	\$ -	4
9-36.	Water, Total Recoverable Petroleum Hydrocarbons (FL-PRO)	Per Sample	12	\$ 67.41	\$ 808.92	8	0	\$ -	4
19-27.	Interim Assessment Report	Per Report	1	\$ 1,400.00	\$ 1,400.00	1	0	\$ -	0
		RETAINAGE			\$ 323.26	\$ 253.93		\$ -	\$ 69.33
		SUBTOTAL			\$ 6,465.17	\$ 5,078.53		\$ -	\$ 1,386.64
Task 3									
1-4.	Permit Fees (actual fee only, cost to obtain permit is included in applicable pay items)	Reimbursable*	90	\$ 1.00	\$ 90.00	0	0	\$ -	90
1-7.	6% Handling Fee for Cost Reimbursable Items	% Surcharge	546.3	\$ 0.06	\$ 32.78	0	456.3	\$ 27.38	90
3-1.	Mobilization, Light Duty Vehicle (car or 1/2 ton truck) - ≤ 100 miles each way	Per Round Trip	2	\$ 374.50	\$ 749.00	0	2	\$ 749.00	0
3-7.a.	DPT Rig and Support Vehicles Mobilization - ≤ 100 miles each way	Per Round Trip	1	\$ 625.00	\$ 625.00	0	1	\$ 625.00	0
5-3.a.	Direct Push Technology (DPT) Rig and Equipment	Full Day	1	\$ 2,999.00	\$ 2,999.00	0	1	\$ 2,999.00	0
8-1.	Monitoring Well Sampling with Water Level, ≤ 100 foot depth	Per Well	1	\$ 165.00	\$ 165.00	0	1	\$ 165.00	0
8-6.	Soil/Sediment Sample Collection	Per Sample	6	\$ 50.00	\$ 300.00	0	5	\$ 250.00	1
8-11.	Electronic Data Deliverables (EDD)	Per Sampling Event	1	\$ 125.00	\$ 125.00	0	1	\$ 125.00	0
8-14.	Encore (25 gram) for SPLP Soil Sample Collection: [Per Encore]. The cost will include the 25 gram Encore samples submitted to the laboratory for SPLP testing and the 25 gram Encore samples collected in the field but not submitted to the laboratory for testing (discarded).	Per Sample	5	\$ 18.00	\$ 90.00	0	5	\$ 90.00	0
9-2.	Soil, BTEX + MTBE (EPA 8021 or EPA 8260)	Per Sample	6	\$ 35.31	\$ 211.86	0	5	\$ 176.55	1
9-5.	Soil, Polycyclic Aromatic Hydrocarbons (EPA 8270 or EPA 8310)	Per Sample	5	\$ 74.90	\$ 374.50	0	5	\$ 374.50	0
9-8.	Soil, Total Recoverable Petroleum Hydrocarbons (FL-PRO)	Per Sample	5	\$ 67.41	\$ 337.05	0	5	\$ 337.05	0
9-8.a.	Soil, TRPH Fractionation (MADEP-EPH/VPH Method or TPHCWG Direct Method)	Per Sample	5	\$ 265.00	\$ 1,325.00	0	0	\$ -	5

**Petroleum Contamination Site Response Action Services
SCHEDULE OF PAY ITEMS INVOICE RATE SHEET**

DETAIL INVOICE, Page 3 of 3

PAY ITEM	DESCRIPTION	UNIT OF MEASURE	PO Rate Sheet			Previously Invoiced	This Invoice		Balance
			UNITS	NEGOTIATED ITEM PRICE	TOTAL EXTENDED PRICE	UNITS	UNITS	EXTENDED PRICE	UNITS
9-11.	Soil, Arsenic (EPA 6010 or EPA 6020)	Per Sample	1	\$ 12.00	\$ 12.00	0	0	\$ -	1
9-12.	Soil, Cadmium (EPA 6010 or EPA 6020)	Per Sample	1	\$ 12.00	\$ 12.00	0	0	\$ -	1
9-13.	Soil, Chromium (EPA 6010 or EPA 6020)	Per Sample	1	\$ 12.00	\$ 12.00	0	0	\$ -	1
9-14.	Soil, Lead (EPA 6010 or EPA 6020)	Per Sample	2	\$ 12.00	\$ 24.00	0	1	\$ 12.00	1
9-15.	Soil, Toxicity Characteristic Leaching Procedure-Extraction Only (EPA 1311)	Per Sample	2	\$ 60.99	\$ 121.98	0	0	\$ -	2
9-16.	Soil, Synthetic Precipitation Leaching Procedure-Extraction Only (EPA1312)	Per Sample	10	\$ 60.99	\$ 609.90	0	0	\$ -	10
9-27.	Water, BTEX + MTBE (EPA 602, EPA 624, EPA 8021 or EPA 8260)	Per Sample	7	\$ 34.00	\$ 238.00	0	1	\$ 34.00	6
9-30.	Water, Polycyclic Aromatic Hydrocarbons, including 1-methylnaphthalene + 2-methylnaphthalene (EPA 610 [HPLC], EPA 625, EPA 8270 or EPA 8310)	Per Sample	6	\$ 80.25	\$ 481.50	0	1	\$ 80.25	5
9-36.	Water, Total Recoverable Petroleum Hydrocarbons (FL-PRO)	Per Sample	1	\$ 67.41	\$ 67.41	0	1	\$ 67.41	0
9-41.	Water, Lead, Total (EPA 200.7, EPA 200.8, EPA 6010 or EPA 6020)	Per Sample	2	\$ 10.50	\$ 21.00	0	1	\$ 10.50	1
19-27.	Interim Assessment Report	Per Report	1	\$ 1,400.00	\$ 1,400.00	0	1	\$ 1,400.00	0
22-1.	Well Installation 1.5 Inch Diameter (vertical) by Direct Push	Reimbursable*	456.3	\$ 1.00	\$ 456.30	0	456.3	\$ 456.30	0
		RETAINAGE			\$ 544.01	\$ -		\$ 398.95	\$ 145.07
		SUBTOTAL			\$ 10,880.28	\$ -		\$ 7,978.94	\$ 2,901.34
Task 4									
3-1.	Mobilization, Light Duty Vehicle (car or 1/2 ton truck) - ≤ 100 miles each way	Per Round Trip	1	\$ 374.50	\$ 374.50	0	0	\$ -	1
12-6.	Transport and Disposal of Petroleum Impacted Soil (includes drum)	Per Drum	3	\$ 200.00	\$ 600.00	0	0	\$ -	3
12-13.	Transport and Disposal of Petroleum Contact Water (includes drum)	Per Drum	1	\$ 185.00	\$ 185.00	0	0	\$ -	1
19-3.	General Site Assessment Report	Per Report	1	\$ 1,950.00	\$ 1,950.00	1	0	\$ -	0
21-15.	P.G. or Qualified P.E. Review, Evaluation and Certification of a General Site Assessment Report	Per Report	1	\$ 500.00	\$ 500.00	1	0	\$ -	0
23-1.	Contingent Funding - Allowance only to be used as offset for field change orders	NOT BILLABLE	7000	\$ 1.00	\$ 7,000.00	n/a	n/a	n/a	7000
		RETAINAGE			\$ 530.48	\$ 122.50		\$ -	\$ 407.98
		SUBTOTAL			\$ 10,609.50	\$ 2,450.00		\$ -	\$ 8,159.50
		TOTAL COST			\$ 29,674.45	\$ 9,203.03		\$ 7,978.94	\$ 12,492.48
					Owner Cost Share:	\$ -	\$ -	\$ -	\$ -
					FDEP Cost Share:	\$ 29,674.45	\$ 9,203.03	\$ 7,978.94	\$ 12,492.48
					Retainage:	\$ 1,483.72	\$ 460.15	\$ 398.95	\$ 624.62
					FDEP Less Retainage:	\$ 28,190.73	\$ 8,742.88	\$ 7,579.99	\$ 11,867.86

Version: 10.0

Site Manager Approval:

Print Name

Signature

Date of Review Letter

Request for Change - Authorization for Change in Scope of Work

9-Digit Facility ID #: 138503663

Facility Name: ~~FUEL~~ Jak Service Center INC DBA United Fuel

Site Manager Name: CAROLINE HERMAN

Site Manager Phone: (305)372-6856

Site Manager Email: caroline.herman@miamidade.gov

Ref #: 844-036A

FDEP Cost Share %: 100.00%

Contract #: GC844

Contractor: ATC GROUP SERVICES, LLC

Contractor Phone: (305) 882-8200

PO #: B22481

CO #: 1

CO Type: Regular

This is an authorization for the costs associated with the change in quantities of services being provided and/or deliverable due dates. In order for these costs to be paid, these changes must be processed through a change order to the purchase requisition and a revised Purchase Order issued by MFMP prior to initiating work.

Description of Change and Justification: Include complete description of who, what, where, when, how and why.

Per the RER/DERM Interim Assessment Report review transmittal email (in Oculus), the following items will be required in addition to those items currently specified in the Task 3 scope of work: analysis of the soil sample collected from proposed soil boring SB-5 for lead analysis; monitoring well installation - 1.5 inch diameter (vertical), as detailed on the attached Soil Boring and Monitoring Well Installation table; and collection of a groundwater sample from the "new" well for BTEX, MTBE, PAHs, TRPH and lead. Copies of permits, laboratory results, updated tables, groundwater sampling logs, and well construction logs will be included in the Task 3 deliverable, Interim Assessment Report. Request a 30-day extension of time for all remaining deliverables. The use of a direct push rig is specified since the mast on a rotary drill rig is too tall to fit beneath the canopy to advance three of the four soil borings. A 1.5-inch diameter well is specified in lieu of a 2-inch diameter well because the direct push rig will be used to install the well and 1.5-inch diameter prepack is the largest that the DP rig can install. A quote for installation of a 1.5-inch x 13 feet deep monitoring well including 8-inch manhole and concrete pad prepared by the direct push contractor is attached.

TASK	PAY ITEM	DESCRIPTION	UNIT OF MEASURE	PAY ITEM PRICE	QUANTITY	EXTENDED PRICE
3	1-7.	6% Handling Fee for Cost Reimbursable Items	% Surcharge	\$0.06	546.3	\$ 32.78
3	9-14.	Soil, Lead (EPA 6010 or EPA 6020)	Per Sample	\$12.00	1	\$ 12.00
3	3-7.a.	DPT Rig and Support Vehicles Mobilization - ≤ 100 miles each way	Per Round Trip	\$625.00	1	\$ 625.00
3	5-3.a.	Direct Push Technology (DPT) Rig and Equipment	Full Day	\$2,999.00	1	\$ 2,999.00
3	22-1.	Well Installation 1.5 Inch Diameter (vertical) by Direct Push	Reimbursable*	\$1.00	456.3	\$ 456.30

Request for Change - Authorization for Change in Scope of Work

9-Digit Facility ID #: 138503663

Ref #: 844-036A

PO #: B22481

Facility Name: ~~FUEL-CH~~ Jak Service Center INC DBA United Fuel

FDEP Cost Share %: 100.00%

CO #: 1

3	3-1.	Mobilization, Light Duty Vehicle (car or 1/2 ton truck) - ≤ 100 miles each way	Per Round Trip	\$374.50	1	\$	374.50
3	8-1.	Monitoring Well Sampling with Water Level, ≤ 100 foot depth	Per Well	\$165.00	1	\$	165.00
3	9-27.	Water, BTEX + MTBE (EPA 602, EPA 624, EPA 8021 or EPA 8260)	Per Sample	\$34.00	1	\$	34.00
3	9-30.	Water, Polycyclic Aromatic Hydrocarbons, including 1-methylnaphthalene + 2-methylnaphthalene (EPA 610 [HPLC], EPA 625, EPA 8270 or EPA 8310)	Per Sample	\$80.25	1	\$	80.25
3	9-36.	Water, Total Recoverable Petroleum Hydrocarbons (FL-PRO)	Per Sample	\$67.41	1	\$	67.41
3	9-41.	Water, Lead, Total (EPA 200.7, EPA 200.8, EPA 6010 or EPA 6020)	Per Sample	\$10.50	1	\$	10.50
3	1-4.	Permit Fees (actual fee only, cost to obtain permit is included in applicable pay items)	Reimbursable*	\$1.00	90	\$	90.00
3	3-9.a.	Drill Rig and Support Vehicles Mobilization (hollow stem auger, mud rotary or sonic) - ≤ 100 miles each way	Per Round Trip	\$1,050.00	-1	\$	(1,050.00)
3	5-1.a.1.	Split Spoon Sampling – 2 foot (during boring) < 50 feet	Per Spoon	\$34.75	-15	\$	(521.25)
3	5-6.	HSA or MR Boring, ≤ 6 inch diameter, < 50 foot total depth	Per Foot	\$24.76	-30	\$	(742.80)

*For reimbursable pay items the cost listed is a "not to exceed" amount. Fees will be reimbursed for the pay item based on the actual invoice. Please note, the unit of measure for these items will be displayed as dollars for invoicing purposes. Please refer to the Scope of Work for additional description of these items.

Request for Change - Authorization for Change in Scope of Work

9-Digit Facility ID #: 138503663

Ref #: 844-036A

PO #: B22481

Facility Name: ~~FUELCH~~ Jak Service Center INC DBA United Fuel

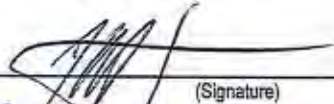
FDEP Cost Share %: 100.00%

CO #: 1

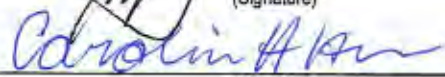
Task	Deliverable Name	Previous Due Date	New Due Date	Change Order Subtotals
3	Interim Assessment Report	5/29/2018	6/29/2018	\$ 2,632.69
4	General Site Assessment report and disposal manifests	7/30/2019	8/29/ XXX 2018	\$ -
Period of Service:		10/1/2018	10/31/2018	\$ 2,632.69

Previous End Date

New End Date

Total Authorized Cost
(FDEP Share: 100%)Contractor Representative: Dwight W. Schwendeman
(Print Name)
(Signature)4/25/2018

(Date)

FDEP Site Manager: CAROLINE HERMAN
(Print Name)
(Signature)4/25/2018

(Date)

Administrative Reviewer: James Fletcher
(Print Name)
(Signature)4/26/2018

(Date)

Technical Approval (optional): 18 4/26/18

Cost Center Approval (optional): _____

Florida Department of Environmental Protection - Petroleum Restoration Program

FDEP Facility ID#: 138503663

STCM Facility Name: JAK SERVICE CENTER DBA UNITED FUEL

Any blank fields are not applicable to the scope of work.

SOIL BORING (SB) and WELL INSTALLATION TABLE																	
SOIL BORING DETAILS					Screening/Split Spoon Intervals			WELL INSTALLATION DETAILS									
TASK #	Installation Method	Quantity	Depth (ft bls)	Total Boring Footage (ft)	Screening Depth Interval 1 & Spacing	Screening Depth Interval 2 & Spacing	Screening Depth Interval 3 & Spacing	Quantity	Well Type	Well Diameter (in)	Depth (ft bls)	Screen Interval (ft bls)	Total Well Footage (ft)	Surface Casing Diameter (in)	Surface Casing Depth (ft)	Total Casing Footage (ft)	Well Completion Type
3	DPT			0				1	MW	4 1/2	13	3-13	13			0	8" MH
TOTALS				0									13			0	



Environmental Service, Inc.

Direct Push Technology Quote Form

JAE@bellsouth.net

(954) 476-8333 (Office) (954) 476-8347 (Fax)

Company Name: ATC		Contact: Dwight Schwendenman	
Site Name: 6900 SW e ^d St		Date: 4/25/16	
Site Location: Miami			
Proposed Scope of Work: Puncture Services to install one prepacked Monitoring well (1 1/2" ID, 13' TD, 10' screen, finished)			
DIRECT PUSH TECHNOLOGY	UNIT	RATE	EXTENDED PRICE
Equipment Type:			
Direct Push Daily Rate	whole day		\$
Direct Push Half-Day Rate	half day		\$
Auger Attachment, 2" Well Install	per foot		\$
Pre-Packed Well Screen ID: 1 1/2"	each foot	35.10	13 \$ 456.30
Slotted Well Screen	each		\$
Well Riser	each		\$
Well Completion	per well		\$
MISCELLANEOUS			
Mobilization	roundtrip		\$
Per Diem	per night/crew		\$
DOT Approved 55-gal Drum	each		\$
Permits	each		\$
Other:			\$
Other:			\$
Other:			\$
Total Quote Price			456.30
Notes:			

Number of Days:

Contract Company Name:

JAEE Environmental Services, Inc.

Contract Company Address:

3101 Peachtree Cir. Davie, FL 33328

Signature of Person Submitting Quote:

APPENDIX G
FIELD NOTES

Location 6900 SW 8th St, Miami Date 01/18/18 65
 Project / Client Jak / United - FDEP ①
 FDEP ID No. 13/8503663 FDEP PO No. B22481

Dwight W. Schwendeman
 ATC Jeep Patriot

arrive: 1132 Depart: 1435

weather: Sunny 60-65°F N/A-15

objective: Conduct site Inspection

- Notify owner Julia Ugan on-site

- Review HASP, JSAs & SOW

- Walk site with Map from

1993 CAR & DERM Compliance

inspections → note wells

CAR
 ↓
 well ← DERM DTW DTB Remarks

MW-1

MW-2

MW-3

MW-4

MW-5

MW-6

MW-7

MW-8

Wells from CAR site

Plan not clearly

Identified with

Respect to New Site

Layout → Used DERM Comp Map

MW-1 6.94 19.1 Needs Cap

MW-2 6.99 18.1

MW-3 6.96 12.0

MW-4 7.12 19.3

MW-5 6.70 14.7

MW-6 6.10 13.3



Location 6900 SW 8th Street, Miami Date 01/18/19 (2)
 Project / Client Jak / United - FDEP
FDEP ID: 13/8503663 DWS

<u>well</u>	<u>DTW</u>	<u>DTB</u>	<u>Remarks</u>
DW-1 MW-9	6.89	14.6	Needs Cap
MW-7	6.63	13.0	Needs Cap
MW-A	6.33	14.6	"
MW-B	7.13	12.7	"

Discussed inspection briefly
 with J. Ugan and departed
 site

Location _____ Date _____

Project / Client _____

Location Jak / United Fuel Date 02/21/18
 Project / Client 6900 SW 8th Street, Miami, FL
 FDEP ID No. 13/8503663 FDEP PO No. B22481

Dwight W. Schwendeman - ATC Jeep Patriot
 Leif Rodney - ATC Dodge Ram 1500PU
 arrive: 1015 depart: ^{DWS} LF
 weather: M-Sunny 82-85°F ESE 15+
 objectives: Conduct GW Sampling per
 Task, 2 of POB22481 & DERM
 e-mail update

- Review HASP, JSAs & SOW
- Notify owner Rep (Jose) on-site
- Calibrate GWS equipment
- Gauge DTW / Survey Well TOLs

Well	DTW	RR	Remarks
1	6.70	4.61 ±	Replaced Cap
2		4.61 ±	Replaced Cap
3	6.69	4.63	Need Low Pro Cap
4	6.81	4.49 ±	Replaced Cap
5	6.43	3.87	Replaced Cap
6	5.83	5.50	Replaced Cap
7	6.37	4.96	Replaced Cap
8	6.05	5.28	Replaced Cap
NW-B	6.86	4.44	Replaced Cap

Location 6900 SW 8th St, Miami Date 02/21/2018

5

Project / Client Jak Service Center / United Fuel

2101430699

Leif Rodney

ATC

Dodge RAM 1500

Arrive: 1033 Depart: 15:13

Weather: Si cloudy T: ~ 75° F

Objective: Ground water sampling event (2 Day)

- Called owner upon arrival
- Reviewed HASP, JSA & SOW
- Walked site with map for well identification

Sampling / Depth to water

- MW1, MW2, MW3, MW4

* Assisted D. Schwendeman w/ Survey monitoring well top-of-casting elevations for wells...

- MW1, MW2, MW3, MW4, MW5, MW6,
MW7, MW8, MW9

6

Location 6900 SW 8th St, Miami

Date 02/22/2018

Project / Client Jak Service Center

/ United Fuel - FDEP

Z101430699

Leif Rodney / ATC

Dodge RAM

Arrive 09:25

Depart: 14:00

Weather: 77°F

Cloudy

Objective: Groundwater Sampling MW5/6/9/A/B

- Owner informed yesterday assignment was for two days

- HASP, JSA & SOW Reviewed yesterday

- Walked Site for well location refresher

Sampling / Depth to Water

- MW7, MW8, MW6, MWS, MWB

Location 6900 SW 8th Street, Miami
 Date 06/05/18
 Project / Client Tek Service Center dba United Fuel
 FDEP No. 13/ PO No.

Arrived W. Schwendeman - ATC Jeep Patrol
 Left Rodney - ATC Dodge Ram
 arrive; 0850 depart; DWS 1145
 weather; M - sunny $\approx 80-92^{\circ}\text{F}$ W5-10
 objective; Advance 5 SBs to
 6' and install (2) 13'
 MW

- Notify J. Ugan on-site
- Conduct tailgate safety meeting review HASP, JSAs & SOL
- Set up DP rig @ SB-3 location & hand clear to 5'

Depth	Lithology	OVA (PID)
SB-3 concrete		
0925 0-2	Fill - LS mix with P-rock	0.5 *
2-4	Fill - LS	<0.1
4-6	Sand grey to light grey mtof	<0.1
0935 6-8	Sand grey staining - Pet odor	
SB-4 concrete, LS fill,		
0945 0-2 @ 9" Sand	Pale brown mtof	<0.1
2-4	Sand grey staining	<0.1
0955 4-6	Sand light reddish brown	0.1 *
6-8	grey staining - Pet odor	

Location 6900 SW 8th Street, Miami
 Date 06/05/18
 Project / Client Tek Service Center dba United Fuel
 FDEP No. 13/ PO No.

Soil borings / Sampling	Lithology	OVA (PID)
SB-2		
1010 0-2	concrete Fill - LS 6"	<0.1 *
2-4	Sand pal brown trending	<0.1
4-6	to light grey LS @ 3.5'	<0.1
1020	very light grey to white to 8'	
SB-1		
1025 0-2	concrete LS 6" Sand	<0.1
2-4	greyish brown trending	<0.1
1040 4-6	to pale brown LS @ 3.5' very light grey to white to 8'	<0.1 *
SB-5 asphalt/concrete		
1055 0-2	Fill - LS Sand with	<0.1
2-4	LS frags 1.5' Sand Brown	0.3 *
4-6	trend light brown LS @ 3.5' pale brown	<0.1
6-8	grey staining light Pet odor	
1105 8-12	Sand mtof grey	
* half Sample		
- Install monitoring well (MW-9)		
MW-7 - DTW = 6.15'	@ SB-5 location	
well construction - 1.5" ϕ x 13" deep with 10' of pre-pack screen with 8" dia manhole		

Medium Risk Site - 2
Dade County School
Board - Transportation

Wheatcroft, Belinda

Subject: FW: Dade County School Board Transportation FAC ID# 13/8628726 - TSAR-

From: Dan Warmke <dwarmke@aetllc.com>

Sent: Monday, November 26, 2018 3:36 PM

To: Maldonado, Rafael <RMaldonado@ene.com>

Subject: RE: Dade County School Board Transportation FAC ID# 13/8628726 - TSAR-

Hi Rafael

Attached is the TSAR for the Dade County School Broad Transportation Facility (13-8628726) in Miami, FL. Please give me a call if you have any questions or require any additional information.

Thank you,

Dan Warmke, P.G.
Project Manager/Geologist
Advanced Environmental Technologies, LLC
4265 New Tampa Highway
Lakeland, Florida 33815
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TEMPLATE SITE ASSESSMENT REPORT

[Signature Page]

DATE: November 26, 2018
 PO#/TA#/WO#: AF4CB5
 Site FDEP Facility ID # 13/8628726 Score: 10
 Site Name: Dade County School BD-
Transportation
 Address: 7011 SW 4TH Street
 City: Miami, Florida
 County: Miami - Dade
 Consultant Company: Advanced Environmental Technologies
 Address: 4265 New Tampa Hwy
 City, State, Zip: Lakeland, Florida 33815
 Consultant Rep.: Daniel Warmke
 Phone #: (800) 989-8298
 Responsible Party Name: School Board of Miami-Dade County
 Address: 12525 N.W. 28th Avenue
 City, State, Zip: Miami, Florida 33167
 Responsible Party Rep.: Jorge Corrales
 Phone #: 305-995-7881

CERTIFICATION:

Qualified Registered Professional Engineer or Registered Professional Geologist Certification.
 I hereby certify that I have supervised the field work (as summarized in the "Recent Site Assessment Activities" section) and preparation of this report, in accordance with Florida Rules and Regulations. As a registered professional geologist and/or professional engineer, as authorized by Chapters 492 or 471, Florida Statutes, I certify that I am a qualified groundwater professional, with knowledge and experience in groundwater contamination assessment and cleanup. To the best of my knowledge, the information and laboratory data summarized in the "Recent Site Assessment Activities" section (including the applicable attachments) are true, accurate, complete, and in accordance with applicable State Rules and Regulations. ***Include a hard (paper) copy of this cover page, signed and sealed, when submitting the report electronically.***

Consultant Name: Daniel Warmke

Signature: 

PE or PG License #: 0001792

Date: 11/26/18



TEMPLATE SITE ASSESSMENT REPORT

Site Name: Dade County School Board
 Facility ID #: 13/8628726
 Date: 11/26/18

TABLE OF CONTENTS

SECTIONS INCLUDED IN REPORT:

- ☒ List of Attachments
- ☒ SECTION I - Facility and Discharge Information/Initial Abatement
Fill out this section for each site in the cluster.
- | Cluster Site Index (if applicable) | | |
|------------------------------------|-----------|-----------|
| | FDEP ID # | Site Name |
| Part one | | |
| Part two | | |
| Part three | | |
| Part four | | |
| Part five | | |
| Part six | | |
- A) Site Description
 B) Petroleum System/Tank History
 C) Release Information
 D) Initial Abatement/Source Removal
- ☒ SECTION II - Background Site Assessment Information
 A) Receptor Investigation
 B) Previous Non-Closure Assessment
 C) Previous Remediation
- ☒ SECTION III - Recent Site Assessment Activities
 A) Soil Investigation
 B) Groundwater Investigation
 C) Free Product Investigation
 D) Comments
- ☒ SECTION IV - Impacted Media
 A) Lithologic Summary
 B) Hydrologic Summary
 C) Risk Evaluation
- ☒ SECTION V - Post Assessment Summary & Recommendations
Fill out this section after site assessment has been completed.
 A) Site Assessment Summary
 B) Recommendations
 C) Comments
- ☒ SECTION VI - Program Issues (for state funded cleanup sites)
 A) Work Plan and Cost Summary

Appendices

<u>(Appendix ID)</u>	<u>(Contents)</u>
A	Tables
B	Figures
C	2012 Potable Well search and receptor survey
D	Boring logs, GWS Logs, Calibration Logs, Field Notes
E	Soil & Groundwater Analytical Results
F	Purchase Order, Change Orders, Attachment A, SCS Summary Worksheet

TEMPLATE SITE ASSESSMENT REPORT

Site Name: Dade County School Board
 Facility ID #: 13/8628726
 Date: 11/26/18

LIST of ATTACHMENTS

(Formats for Tables and Figures are provided in FDEP Petroleum Cleanup Preapproval Program Standard Operating Procedures (SOP) Manual, 5th Edition, April 2005 and subsequent updates, SOP PCS-004, SOP PCS-005, SOP PCS-006 and the October 1998 Assessment Report Preparation guidance). Updated Table formats can be found at the Petroleum Cleanup website.

TABLES***ATTACHED******TABLE #******APPENDIX***

Assessment Tables

<u>X</u> SOIL SCREENING RESULTS	<u>1</u>	<u>A</u>
<u>X</u> SOIL ANALYTICAL RESULTS	<u>2A-D</u>	<u>A</u>
<u>X</u> GROUNDWATER ANALYTICAL RESULTS (<i>monitoring wells</i>)	<u>4A-B</u>	<u>A</u>
<u> </u> GROUNDWATER ANALYTICAL RESULTS (<i>direct push</i>)	<u> </u>	<u>A</u>
<u>X</u> GROUNDWATER ELEVATION DATA	<u>3</u>	<u>A</u>
<u> </u> MONITORING WELL CONSTRUCTION DATA	<u> </u>	<u>A</u>
<u> </u> SUPPLY WELL CONSTRUCTION DATA (<i>includes well owner name and address information</i>)	<u> </u>	<u>A</u>
<u>X</u> SITE ASSESSMENT SUMMARY FORM	<u>6</u>	<u>A</u>
<u> </u> OTHER: <u>SPLP Analytical and MADEP EHP/VPH</u>	<u>3A-B</u>	<u>A</u>

TEMPLATE SITE ASSESSMENT REPORT

Site Name: Dade County School Board
 Facility ID #: 13/8628726
 Date: 11/26/18

FIGURES

ATTACHED

Assessment Figures

FIGURE #

APPENDIX

<u>X</u>	SITE PLAN - including current and/or former tank locations, piping/utilities, and extent of soil excavations (if applicable)	<u>1A</u>	<u>B</u>
<u>X</u>	SITE VICINITY AREA USE MAP - including all potential off-site sources of contamination and water wells located within 500 feet	<u>1B</u>	<u>B</u>
<u> </u>	POTABLE WELL LOCATION MAP - A USGS quadrangle map illustrating all municipal/public and private supply wells located within 1/2 and 1/4 mile, respectively (respective radii illustrated)	<u> </u>	<u>B</u>
<u>X</u>	SOIL SAMPLING LOCATIONS - including data collected during monitoring well installation	<u>2</u>	<u>B</u>
<u>X</u>	SOIL SCREENING DATA PLOTTED - including data collected from monitoring well installations. <u>This map can include recommended soil boring locations</u>	<u>3A</u>	<u>B</u>
<u>X</u>	GROUNDWATER SAMPLING LOCATIONS - including all monitoring well and direct push sampling locations	<u>5</u>	<u>B</u>
<u>X</u>	GROUNDWATER CONTAMINANT CONCENTRATIONS - Benzene, BTEX, MTBE & Naphthalene concentrations plotted at each sampling point. <u>This map can include recommended well locations</u>	<u>5</u>	<u>B</u>
<u>X</u>	GROUNDWATER ELEVATION CONTOUR MAP(S) - with flow interpretation for each impacted zone. <u>Note, previous flow interpretations should be submitted when they are not consistent with the current flow interpretation(s)</u>	<u>4A</u> thru <u>4B</u>	<u>B</u>
<u>X</u>	GROUNDWATER PLUME INTERPRETATION(S) - with contaminant isoconcentration contours plotted for each significant contaminant of concern (or total BTEX)	<u>5A</u> thru <u> </u>	<u>B</u>
<u> </u>	ESTIMATED FREE PRODUCT PLUME AREA - including thickness measured	<u> </u>	<u> </u>
<u> </u>	GEOLOGIC/HYDROLOGIC CROSS-SECTION - including lithologic, well screen and depth to water fluctuation information	<u> </u>	<u> </u>
<u> </u>	PROPOSED SOIL BORING AND MONITORING WELL LOCATIONS (if not illustrated in another figure)	<u> </u>	<u> </u>
<u>X</u>	OTHER: <u>USGS Topographic Map</u>	<u>1C</u>	<u>B</u>

TEMPLATE SITE ASSESSMENT REPORT

Site Name: Dade County School Board
 Facility ID #: 13/8628726
 Date: 11/26/18

FIGURES (continued)**ATTACHED**

Remediation Figures

FIGURE #**APPENDIX**

_____ REMEDIAL SYSTEM SITE LAYOUT - <i>showing remedial system layout and locations of major system components (e.g., monitoring and recovery wells, system housing, effluent discharge, etc.)</i>	_____	_____
_____ REMEDIATION SYSTEM SCHEMATIC - <i>showing treatment influent/effluent discharge, etc.</i>	_____	_____
_____ OTHER: <u>Soil SPLP Summary Map</u>	_____ 3B	_____ B

MISC. ATTACHMENTS**ATTACHED****APPENDIX**

_____ LABORATORY ANALYTICAL REPORTS - <i>including COCs required for all sampling</i>	_____	_____ E
_____ GROUNDWATER SAMPLING LOGS – <i>form FD 9000-24 is required for all groundwater sampling</i>	_____	_____ D
_____ FIELD INSTRUMENT CALIBRATION RECORDS- <i>form FD 9000-8 is required for all groundwater sampling</i>	_____	_____ D
_____ WELL CONSTRUCTION & DEVELOPMENT LOGS <i>recommend using Petroleum Cleanup Program forms</i>	_____	_____ D
_____ BORING LOGS <i>recommend using Petroleum Cleanup Program forms</i>	_____	_____ D
_____ CONTAMINATED SOIL AND/OR GW VOLUME AND CONTAMINANT MASS CALCULATIONS	_____	_____
_____ COPIES OF OFF-SITE ACCESS AGREEMENTS	_____	_____
_____ COPY OF APPLICABLE WORK ORDER, PURCHASE ORDER, OR TASK ASSIGNMENT	_____	_____ F
_____ COPY OF APPLICABLE CHANGE ORDERS	_____	_____ F
_____ COPY OF DISPOSAL MANIFESTS - <i>to document IDW soil and/or groundwater disposal</i>	_____	_____
_____ AQUIFER TEST CALCULATIONS	_____	_____

TEMPLATE SITE ASSESSMENT REPORT

Dade County School Board

Site Name:

Facility ID #:

13/8628726

Date:

11/26/18

_____ CHRONOLOGY OF FIELD WORK PERFORMED _____

- a list of what was performed and when performed

_____ COPY OF PREVIOUS REMEDIAL ACTION PLAN
APPROVAL ORDER _____

_____ COPY OF PREVIOUS SITE (OR CONTAMINATION)
ASSESSMENT REPORT APPROVAL LETTER _____

_____ OTHER: _____

_____ OTHER: _____

_____ ORIGINAL SIGNED AND SEALED PROFESSIONAL LAND SURVEY _____

_____ ELECTRONIC COPY OF PROFESSIONAL LAND SURVEY

_____ ELECTRONIC COPY OF TEMPLATE SITE ASSESSMENT REPORT

TEMPLATE SITE ASSESSMENT REPORT

Site Name: Dade County School Board
Facility ID #: 13/8628726
Date: 11/26/18

SECTION I - Facility & Discharge Information/Initial Abatement

Site Name

☐*Cluster Site*

Part _____ Facility FDEP# _____ Site Name: _____

I-A) Site Description

*Please provide a brief description of the site and a summary of site history and operations. What type of business or businesses (if any), non-petroleum as well as petroleum, operated at the former/present site? If petroleum, describe where all former and current fuel tanks, lines and dispensers were/are located (indicating how this information was obtained). Describe any access constraints (utility conduits, canopies, land cover, etc.) which also might influence the placement of monitoring wells and/or the installation of soil borings. Indicate whether there are any owner issues or traffic concerns which might affect when the work can be performed? **Please indicate when the requested information is best illustrated on the site map.***

This site is currently active and is used as administration offices, fleet maintenance for all vehicles and parking for the Miami-Dade County School System. The site is located at 7001 SW 4th Street in Miami, Florida, and sites on 11.87 acres. Currently, no fuel of any type is being dispensed from here.

Based on information obtained from FDEP and Miami-Dade County, there have been ten (10) UST's removed from the site and five (5) abandoned in place in 1989. The UST's were located in several different locations throughout the property. This property has four (4) different areas of investigation and seven different (7) releases located within its boundaries. For the purpose of this investigation AET is only focusing on Area 4 from the site.

Within area 4, there have been three (3) reported releases. The first was in January 1984 and is PCPP eligible, the second was in July 1987 and is also PCPP eligible. The third was in December 2012 and is a non-program release. In area 4, there are 5 UST's abandoned in place, are 4,000-gallon in size and are believed to be located in two (2) pits; 3 to the south and 2 to the north of the current pump island. There are conflicting reports as to their actual location and it appears that they were filled with concrete. There are also two (2) 12,000-gallon underground storage tanks (UST). These 2 UST's dispensed unleaded gasoline and diesel fuel from 1989 until 2013 when they were listed as inactive. The pump island is covered with an overhead canopy located on the west central portion of the property with the current UST's directly to the north.

There are many underground utilities running under the entire property, AET used GPR to locate the subsurface utilities and lines located in area 4. The property cannot be accessed without proper permission. All work needs to be coordinated through the Dade County School Board in advance.

Site map (Figure 1A) illustrating all current & former tanks, lines and dispensers (including utilities, canopies, etc.) is included in Appendix A

TEMPLATE SITE ASSESSMENT REPORT

Dade County School Board

Site Name:

Facility ID #:

13/8628726

Date:

11/26/18

I-B) Petroleum System/Tank History

List current and former UST's and/or AST's operated at site. Systems (PAST AND PRESENT) must be illustrated on Site Plan. This information should be a summary of the Department's STCM database, all tank closure reports (if applicable) and site owner & operator information.

<u>ID#</u>	<u>AST or UST</u>	<u>Size</u> (gallons)	<u>Installation Date</u>	<u>Contents</u> (unleaded gasoline/ diesel/etc.)	<u>Status</u> (active, removed or abandoned [in place])	<u>Date Removed or Abandoned</u> (if applicable)
1	UST	4000	Unknown	unleaded gasoline	Removed	1989
2	UST	4000	Unknown	Unleaded gasoline	Removed	1989
3	UST	4000	Unknown	Leaded gasoline	Abandoned	1989
4	UST	4000	Unknown	Leaded gasoline	Abandoned	1989
5	UST	4000	Unknown	Leaded gasoline	Abandoned	1989
6	UST	4000	Unknown	Leaded gasoline	Abandoned	1989
7	UST	4000	Unknown	Leaded gasoline	Abandoned	1989
8	UST	1000	Unknown	Unleaded gasoline	Removed	1989
9	UST	500	Unknown	Kerosene	Removed	1991
10	UST	500	Unknown	Unknown	Removed	1991
11	UST	3000	Unknown	Leaded gasoline	Removed	1989
12	UST	3000	Unknown	Leaded gasoline	Removed	1989
13	UST	3000	Unknown	Unleaded gasoline	Removed	1989
14	UST	3000	Unknown	Unleaded gasoline	Removed	1989
15	UST	500	Unknown	Unknown	Removed	1991
16	UST	12000	07/1989	Diesel	Out of service	2013
17	UST	12000	07/1989	Unleaded gasoline	Our of service	2013

-If above information is different than the Department's STCM database, please indicate source of updated information:

Tank ID # 2, 3, 4, 5, 6, 7 and 16 & 17 listed above are located within the area 4 investigation site.

Active Site? If yes, please indicate method, date and extent of latest tank and line tightness test (include copy of tightness test results). If tank tightness test results are not available, please explain why they are not necessary or indicate when next tightness test will be performed.

YES

☐

NO

☒

Fuel is not being dispensed from the property at the current time.

Copy of tightness test results included in Appendix _____

TEMPLATE SITE ASSESSMENT REPORT

Site Name: Dade County School Board
 Facility ID #: 13/8628726
 Date: 11/26/18

I-B) Petroleum System/Tank History (continued)

Petroleum System Closure? *If yes, briefly describe type of petroleum system (AST, UST, distribution lines, etc.) and closure activities conducted. Description not needed if copy of system tank closure report included.*

YES

☒

NO

☐

Note: Section I-C should be used to document soil, groundwater or product removal performed during closures.

The 5 UST's abandoned in place are 4,000-gallon in size and are believed to be located in two (2) pits; 3 to the south and 2 to the north of the current pump island. There are conflicting reports as to their actual location and it appears that they were filled with concrete.

The two (2) 12,000-gallon UST's are listed as inactive.

☐

Description of system closure activities included in attached tank closure report.

Copy of tank or system closure report (if applicable) included in Appendix _____

I-C) Release Information

	<u>Discovery Date(s)</u>	<u>Program Type(s): ATRP, EDI, PCPP, PLRIP or Non-program</u> <small>(please indicate if a non-program discharge has been combined with an eligible discharge)</small>
1 st	<u>1/1/1984</u>	<u>PCPP</u>
2 nd	<u>6/6/1986</u>	<u>Non-Program</u>
3 rd	<u>6/24/1987</u>	<u>PCPP</u>
4 th	<u>6/16/1989</u>	<u>Non-Program</u>
5 th	<u>7/8/1992</u>	<u>Non-Program</u>
6 th	<u>11/11/1996</u>	<u>Non-Program</u>
7 th	<u>12/4/2012</u>	<u>Non-Program</u>

-Source description and release history that includes date(s) of release(s), cause(s) of release(s), where they occurred, type(s) of product released and volume(s) of release(s) [please explain how estimates were derived].

There have been multiple discharges reported for this site in different areas of the property, for the purpose of this report, we are only reporting on discharges 1 and 3 from the above, reported on 1/1/1984 and 6/24/1987. During an inspection of the site in June 1987, monitor wells were checked and a sheen was observed in MW-6 and a thin layer of product was also observed in MW-9. It was unknown how much product was released, and it was from an unknown source. PCPP eligibility is for area 4 (tank pit area) only.

- Suspected type(s) of product released:

☐

Leaded Gasoline

☐

Diesel/Kerosene

☐

Unleaded Gasoline

☐

Used Oil

☒

Unknown

☐

Other: _____

TEMPLATE SITE ASSESSMENT REPORT

Site Name: Dade County School Board
Facility ID #: 13/8628726
Date: 11/26/18

I-D) Initial Abatement/Source Removal

(Soil/Groundwater/Free Product removal during tank closures):

Was soil contamination detected during petroleum system closure? If yes, please briefly describe extent of petroleum impacts and method(s) used to identify soil contamination.

YES	NO	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

The area of this investigation is around the UST pit where the five (5) 4000-gallon UST's are abandoned in place and the two (2) 12,000-gallon out of service UST's are located. Soil was not investigated during the closure of the 4,000-gallon UST's.

Site map (Figure _____) illustrating soil sampling locations is included in Appendix _____
Tabular summary of soil sampling results (Table _____) is included in Appendix _____

Was contaminated soil removed? If yes, please describe the horizontal and vertical extents of the soil removal and indicate where contaminated soil might still exist.

YES	NO	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Approximate depth to water at time of excavation (if known) _____ feet bls
Approximate amount removed _____ tons ☐ yds³ ☐ Date: _____
Disposal method: _____

TEMPLATE SITE ASSESSMENT REPORT

Dade County School Board

Site Name:

Facility ID #:

Date:

13/8628726

11/26/18

I-D) Initial Abatement/Source Removal (continued)

Was groundwater contamination detected during petroleum system closure? If yes, please indicate whether wells were installed (including their construction details if possible) and indicate the maximum levels for petroleum contaminants of concern that were detected.

YES

X

NO

N/A

Compliance wells were installed around the UST's prior to abandonment and during the compliance inspection in 1987, sheen and product was observed in two of the wells. It was this discharge that prompted the abandonment of these 5 tanks in 1989. There are no records of when the monitor wells were installed.

Site map (Figure _____) illustrating groundwater sampling locations is included in Appendix _____

Was contaminated water removed? If yes, please identify removal location(s) and describe method of removal.

YES

☐

NO

X

N/A

☐

Approximate volume removed: _____ gallons

Date(s): _____

Disposal method: _____

TEMPLATE SITE ASSESSMENT REPORT

Dade County School Board

Site Name:

Facility ID #:

Date:

13/8628726

11/26/18

I-D) Initial Abatement/Source Removal (continued)

Was free product detected during petroleum system closure? If yes, please describe location(s) where product was observed and thickness observed.

YES

☐

NO

☒

N/A

☐

Site map (Figure _____) illustrating locations where free product was observed is included in Appendix _____

Tabular summary of product thickness (Table _____) is included in Appendix _____

Was free product removed? If yes, please identify removal location(s) and describe method of removal.

YES

☐

NO

☒

N/A

☐

Volume removed: _____ gallons

Date(s): _____

Disposal method: _____

TEMPLATE SITE ASSESSMENT REPORT

Dade County School Board

Site Name: _____

Facility ID #: 13/8628726

Date: 11/26/18

SECTION II - Background Site Assessment Information**II-A) Receptor Investigation**

Are large (>100,000 gallons per day) public supply potable wells located within 1/2 mile? If yes, please indicate distance(s) and direction(s) from site, if they are located downgradient and if the well(s) are screened deeper than contamination. If unknown, please explain.

YES ☐ NO ☒ Unknown ☐

According to the 2012, Potable Well Survey (PWS), there are no large public supply wells within 1/2 mile of the site. A copy of the 2012 PWS is included in **Appendix C**.

Potable well survey map (Figure _____) is included in Appendix C
Potable well construction summary (Table _____) is included in Appendix _____

Are water wells, including irrigation, industrial and all potable wells (<100,000 gallons per day), located within 1/4 mile? If yes, please identify the type(s) of wells, their distances and directions from the site, if they are located downgradient and if the well(s) are screened deeper than the contamination. If unknown, please explain.

YES ☐ NO ☒ Unknown ☐

According to the 2012, Potable Well Survey (PWS), there are no small potable wells within 1/4 mile of the site. A copy of the 2012 PWS is included in **Appendix C**.

Water well survey map (Figure _____) is included in Appendix C
Water well construction summary (Table _____) is included in Appendix _____

TEMPLATE SITE ASSESSMENT REPORT

Dade County School Board

Site Name:

Facility ID #:

Date:

13/8628726

11/26/18

II-A) Receptor Investigation (continued)

Was an area use survey performed? If yes, please identify all water wells within the survey area (as identified in the database searches and walk through survey), all surface waters, any basements or other subsurface structures and any other receptors which might be impacted. Please indicate predominant property use in area and if there are any potential off-site contamination sources located within at least a one block radius of the contaminant plume.

YES

☒

NO

☐

Lake Mahar is located approximately ¼ mile N/NE from the northern property line of the site. The surrounding area is commercial and residential in this area.

Area use survey map (Figure 1B) is included in Appendix B

Are there any potable wells that have been impacted by contamination? If yes, please describe what was done to provide users of the contaminated potable well(s) an alternative drinking water supply. If unknown, please explain.

YES

☐

NO

☒

Unknown

☐

Based on the 2012 PWS, there are no large public supply wells or small potable wells with ½ and ¼ mile of the site, respectively.

TEMPLATE SITE ASSESSMENT REPORT

Site Name: Dade County School Board
Facility ID #: 13/8628726
Date: 11/26/18

II-A) Receptor Investigation (continued)

Are there any surface water bodies which have been impacted by the contamination? If yes, please describe what (if anything) has been done to abate or prevent contamination impacting surface water. If unknown, please explain.

YES	NO	Unknown
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Are the Chapter 62-777, F.A.C., (effective April 17, 2005) default Cleanup Target Levels (CTLs) for soil and groundwater the cleanup goals for this site?

YES	NO
<input checked="" type="checkbox"/>	<input type="checkbox"/>

If no, please indicate if the cleanup goals are from the 1999 version of Chapter 62-770, F.A.C., or pre-1999, apply to this site (providing the reason why) or if alternative cleanup target levels have been or might be established for this site (outlining all engineering and/or institutional controls which already exist or will need to be implemented in the future).

TEMPLATE SITE ASSESSMENT REPORT

Site Name: Dade County School Board
 Facility ID #: 13/8628726
 Date: 11/26/18

II-B) Previous Site Assessment

Information not described in Section I ("release information" or "initial abatement/source removal")

Was site assessment work performed? If yes, please indicate who performed it (with reason performed) and dates performed (see table below)

YES

NO

☒
☐

List of all reports where site assessment information was originally submitted to the FDEP (oldest to most recent):

<u>Date of report</u>	<u>Title of report</u>	<u>Company that prepared report</u>
July 7, 1992	Contamination Assessment Report	Southeast Environmental Consultants
July 30, 1993	Contamination Assessment Report Addendum	Blasland, Bouck & Lee
October 23, 2015	Site Assessment Report	Nutting Environmental of Florida, Inc.
September 28, 2016	Site Assessment Report Addendum	Nutting Environmental of Florida, Inc.
January 29, 2018	Interim Report	AET LLC

Was soil assessment performed? If yes, please briefly describe work performed and discuss results. A description of the sampling results can be omitted if the data are included with current tabular summaries and soil plume maps (if applicable).

YES

NO

☒
☐

The 1993 CAR Addendum documented that 5 soil borings and 5 test borings were advanced in area 4 of the site. There was no indication of impacted soil from any of the soil samples collected for this CAR Addendum. A major portion of this CAR Addendum was conducted on other portions of the property not related to the area 4 assessment area. However, this report recommended a Monitoring Only Plan (MOP) in area 4 however, the MOP was not implemented.

In October 2015, a non-program assessment was performed in area 4. Monitor wells MW-1,2,3 and 4 all contained free product surrounding the currently inactive 12,000-gallon UST's. Soil and groundwater assessment were conducted. Contaminants above SCTL's were not identified in any soil samples collected.

Additional assessment was conducted in 2016 and was reported in the SAR Addendum dated September 28, 2016. In the 2016 non-program assessment, it was recommended that the two (2) 12,000-gallon UST's be removed. To date, the UST's have not been removed from the site.

☒ Results included in current soil OVA screening and soil analytical summary tables.

Site map (Figure 2) illustrating sampling locations is included in Appendix B
 Tabular summary of soil sampling results (Table 1) is included in Appendix A

TEMPLATE SITE ASSESSMENT REPORT

Dade County School Board

Site Name:

Facility ID #:

13/8628726

Date:

11/26/18

II-B) Previous Site Assessment (continued)

YES

NO

*Any monitoring wells installed? If yes, briefly identify where the wells were installed and describe their construction. Please indicate if the wells are still on-site. **The well descriptions and can be omitted if the information is included in a current tabular summaries.***

☒☐

There are 14 groundwater monitor wells in the Area 4 assessment area. Five (5) Monitor wells MW-9 thru MW-13 were installed by Nutting Environmental during a Non-Program related assessment in 2015. There is no information in the database on when MW-1 thru MW-8 and MW-A were installed. It is assumed that they could have been installed during the July 1992 CAR, but this report is not located in the data base.

Site map (Figure 1) illustrating well locations is included in Appendix B

Tabular summary of well construction details (Table) is included in Appendix

YES

NO

*Has direct push (geoprobe) groundwater grab-sampling been performed? If yes, briefly identify the locations and depths where the samples were collected. **A description of the sample locations and results can be omitted if the information is included in current site maps and tabular summaries***

☐☒

Site map (Figure) illustrating the groundwater sampling results is included in Appendix

Tabular summary of groundwater sampling results (Table) is included in Appendix

TEMPLATE SITE ASSESSMENT REPORT

Site Name: Dade County School Board
Facility ID #: 13/8628726
Date: 11/26/18

II-B) Previous Site Assessment (continued)

Was groundwater sampling performed? If yes, briefly describe what sampling was performed and summarize results. A description of the sampling results can be omitted if the data are included with the current tabular summaries and groundwater plume maps (if applicable).

YES ☒ NO ☐

Three (3) monitor wells MW-3, MW-4 and MW-13 in the Area 4 were sampled during the 1993 CAR Addendum. Groundwater analytical data from these three wells were all below Groundwater Target Cleanup Levels GCTLs). In the 1993 CAR Addendum, a MOP was recommended but was not implemented.

During a compliance inspection in 2012, free product was reported in Monitor wells MW-1, 2, 3 and 4, a DRF was submitted, and in 2013 the tanks were listed as inactive. The October 2015, non-program site assessment report documented soil/groundwater sampling activities in area 4. Monitor wells MW-1, 2, 3, and 4 all reported free product surrounding the current inactive 12,000-gallon UST's.

Additional assessment was conducted and reported in the 2016 SAR Addendum. In this 2016 non-program assessment, it was recommended that the two (2) 12,000-gallon UST's be removed. The removal of the UST's was never performed.

☒ Results included in current groundwater analytical summary table.

Site map (Figure _____) illustrating sampling locations is included in Appendix _____
Tabular summary of groundwater results (Table _____) is included in Appendix _____

Has free product been observed in wells or excavations (not including tank and/or system closures)? If yes, please describe. A description of the thickness measured can be omitted if the previous data are included with the current tabular summaries and illustrated on current free product plume maps (if applicable).

YES ☒ NO ☐

During a compliance inspection in 2012, free product was reported in Monitor wells MW-1, 2, 3 and 4, a DRF was submitted, and in 2013 the tanks were listed as inactive. Free product was also identified in monitor wells MW-1, MW-2, MW-3 and MW-4 during the 2015 and 2016 CAR and CAR Addendum, respectively.

Site map (Figure _____) illustrating locations where free product was observed is included in Appendix _____
Tabular summary of free product thickness (Table _____) is included in Appendix _____

Site Name:	Dade County School Board
Facility ID #:	13/8628726
Date:	11/26/18

Has the previous site assessment been approved by the FDEP (was a CAR or SAR approval letter issued?)

	YES	NO
	<div style="border: 1px solid black; padding: 5px; text-align: center;">X</div>	<div style="border: 1px solid black; padding: 5px; text-align: center;"></div>

Date site assessment (or contamination assessment) was approved: October 4, 1993

Has a Remedial Action Plan been prepared? If yes, please briefly describe the remedial strategy. The description of the remedial strategy can be omitted if the RAP was implemented (this item will be addressed in the active remediation section that follows).

YES ☐ NO ☒

	YES	NO
<p><i>Was soil excavation (not associated with a system closure) performed? If yes, please briefly describe work performed and discuss results.</i></p> <p><i>The description of the source removal can be omitted if already discussed in the initial abatement section.</i></p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Approximate depth to water at time of excavation (if known) _____ feet

Site map (Figure _____) illustrating sampling locations and extent of excavation(s) is included in Appendix _____

Tabular summary of soil sampling results (Table _____) is included in Appendix _____

TEMPLATE SITE ASSESSMENT REPORT

Dade County School Board

Site Name:

Facility ID #:

Date:

13/8628726

11/26/18

II-C) Previous Remediation (continued)

YES

NO

Has active remediation been performed? If yes, please indicate dates performed (each applicable technology), evaluate previous system effectiveness and indicate if any previous equipment is still available for cleanup.

☐☒

Identify type(s) of active remediation previously performed:

- ☐ Air Sparging & Vapor Extraction ☐ Groundwater Recovery (pump & treat) ☐ Multiphase Extraction (w/dual phase)
☐ Limited scope well over-development ☐ Excavation ☐ Enhanced Bio-Remediation (ORC, etc.)
☐ Free Product Recovery ☐ Other: _____

TEMPLATE SITE ASSESSMENT REPORT

Site Name: Dade County School Board
 Facility ID #: 13/8628726
 Date: 11/26/18

SECTION III - Recent Site Assessment Activities**III-A) Soil Investigation**

[soil sampling]

Was soil (vadose zone and smear zone) investigated? If yes, please provide a brief discussion of soil sampling methodology, including the method(s) used to collect the laboratory samples. If no, please explain.

YES ☒ NO ☐

As per the current Work Scope (PO# AF4CB5) AET preformed the following soil investigation:

On 10/19/17, AET was on-site to conduct a GPR survey to locate unknown utilities, lines and subsurface features in area 4.

On 12/18/17, AET on-site to advance fifteen (15) soil borings (SB-16 to SB-31) to a depth of 14-ft using direct push technology. Soil samples were analyzed for BETX/MTBE, PAHs, TRPH, MADEP and SPLP.

On 4/26/18, Miami Dade County Schools agreed to a Conditional Site Closure

On 5/25/18, AET re-sampled soil boring SB-31 and SB-32 to confirm soil exceedances for Conditional Closure.

On 5/29/18, it is reported that soil samples from SB-31 and SB-32 were not received by the laboratory.

On 6/25/18, AET re-sampled SB-31 and SB-32 for MADEP Speciation.

On 7/9/18, AET reports that soil samples SB-31 and SB-32 were received at the subcontracted lab out of temperature thresholds.

On 9/5/18, AET re-sampled SB 31 and SB-32; results indicated a TRPH exceedance in both samples. Benzo (a) pyrene was also exceeded in SB-32 @ 1-2-ft.

Date of last soil screening event (OVA data) with or without laboratory sampling: _____

Site map (Figure 3A) illustrating sampling locations is included in Appendix B

Tabular summary of soil screening results (Table 1) is included in Appendix A

Tabular summary of laboratory soil sampling results (Table 2A-B) is included in Appendix A

Soil sampling logs (for laboratory samples) are included in Appendix D

Soil samples (previous sampling events included) have been collected and analyzed for:

Required for all suspected GAG & KAG contaminated sites.

☒ BTEX/MTBE (low/high) ☒ PAHs ☒ TRPHs

Required for all sites where Used Oil contamination is suspected.

☐ Priority Pollutant Volatile ☐ As, Cd, Cr, Pb ☐ TRPHs
☐ Organics & Extractable Organics

TEMPLATE SITE ASSESSMENT REPORT

Site Name: Dade County School Board
Facility ID #: 13/8628726
Date: 11/26/18

III-A) Soil Investigation (continued)

Was soil Investigative Derived Waste (IDW) generated?

YES

☐

NO

☒

N/A

☐

If yes, please describe method used for identifying soil needing disposal:

Volume of contaminated soil disposed of: _____ ☐ drums ☐ cu. yds.

Disposal method: _____

[soil results]

Was soil contamination above applicable Cleanup Target

YES

☒

NO

☐

N/A

☐

Levels identified above the water table? If yes, identify where

concentrations above CTLs were detected, depths encountered and corresponding OVA readings. If no, please indicate whether laboratory results agree with OVA readings (if they do not agree, please discuss significance of OVA screening data and/or reliability of laboratory results). If "N/A", please explain.

SB-31 (4-ft) and SB-32 (4-ft) reported TRPH above Residential Direct Exposure Levels in the sampling events. Additionally, Benzo(a) pyrene equivalents were exceeded in SB-32(1-2-ft) and in SB-32(4-ft) in the sampling events.

Approximate volume of vadose zone soil contamination: _____ cu. yds.

Site map (Figure 3A-B) illustrating extent of soil contamination is included in Appendix B

Soil concentration summary (Table 2A-D) is included in Appendix A

Soil sampling logs (for laboratory samples) are included in Appendix D

TEMPLATE SITE ASSESSMENT REPORT

Dade County School Board

Site Name:

Facility ID #:

Date:

13/8628726

11/26/18

III-A) Soil Investigation (continued)

Was vadose zone soil contamination delineated? If no, please describe where additional borings should be located (indicating proposed depths of investigations). If "N/A", please explain.

YES

☒

NO

☐

N/A

☐

Site map (Figure _____) illustrating proposed sampling locations is included in Appendix _____

Has a smear zone been identified? Definition: The "smear zone" is the soil contamination located within the zone of water table fluctuation (it has been described as a "secondary source" of contamination). *If yes, please discuss the horizontal and vertical contaminant mass distribution in the smear zone. If no, please describe what additional information is needed (soil borings, well data, etc.). If "N/A", please explain.*

YES

☒

NO

☐

N/A

☐

Based on historical and current groundwater elevation data and depths to water, the smear zone appears to exist between 4-ft to 5.5-ft.

Site map (Figure _____) illustrating proposed sampling locations is included in Appendix _____

TEMPLATE SITE ASSESSMENT REPORT

Site Name: Dade County School Board
Facility ID #: 13/8628726
Date: 11/26/18

III-B) Groundwater Investigation

[monitoring wells/direct push]

Were monitoring wells installed (or abandoned)? If yes, briefly identify which wells were installed/abandoned and describe their construction. **The well locations and construction details can be omitted if the information is included in current site maps and tabular summaries.**

YES

☐

NO

☒

Site map (Figure _____) illustrating the well locations is included in Appendix _____
Tabular summary of well construction details (Table _____) is included in Appendix _____
Monitoring well completion reports are included in Appendix _____

Was direct push (geoprobe) groundwater grab-sampling performed? If yes, briefly identify the locations and depths where the samples were collected. **A description of the sample locations and results can be omitted if the information is included in current site maps and tabular summaries**

YES

☐

NO

☒

Site map (Figure _____) illustrating the groundwater sampling results is included in Appendix _____
Tabular summary of groundwater sampling results (Table _____) is included in Appendix _____

TEMPLATE SITE ASSESSMENT REPORT

Site Name: Dade County School Board
Facility ID #: 13/8628726
Date: 11/26/18

III-B) Groundwater Investigation (continued)

[groundwater sampling]

Was groundwater sampling performed? If yes, please provide a brief discussion of groundwater purging and sampling methodology and identify the wells that were sampled. If no, please explain. A description of the sampling results can be omitted if the information is illustrated in current contaminant plume maps and tabular summaries

YES

☒

NO

☐

On 8/24/17, AET was on-site and conducted a receptor survey and collected depth to water data from all 14 wells.

On 10/8/17, AET reported that due to a laboratory error, it was believed that hold times for MW-10, MW-11 and MW-12 were exceeded.

On 10/31/17, AET was on-site to re-sample monitor wells MW-10, 11 and 12.

If groundwater sampling not performed, indicate date of last sampling event (if applicable): _____

Indicate wells sampled on that date (if applicable): _____

Site map (Figure 5) illustrating the groundwater sampling results is included in Appendix B

Tabular summary of groundwater sampling results (Table 2A-B) is included in Appendix A

Groundwater field sampling logs are included in Appendix D

Groundwater samples (previous sampling events included) have been collected and analyzed for:

Required for all suspected GAG/KAG sites.☒ BTEX/MTBE☒ PAHs☒ TRPHs**Required for all contaminated GAG/KAG sites.**☐ EDB☐ Lead (Pb)☐ VOHs**Required for all suspected used oil (or unknown fuel type) contaminated sites.**☐ Priority Pollutant Volatile
Organics & Extractable Organics☐ As, Cd, Cr, Pb☐ TRPHs

TEMPLATE SITE ASSESSMENT REPORT

Dade County School Board

Site Name:

Facility ID #:

Date:

13/8628726

11/26/18

III-B) Groundwater Investigation (continued)

YES

NO

N/A

Was groundwater IDW generated? If yes, please explain why disposal on-site was not possible.

☐☒☐

Volume of contaminated groundwater disposed of: _____

☐

drums

☐

gallons

[groundwater results]

YES

NO

N/A

Was groundwater contamination identified above the applicable Cleanup Target Levels? If yes, indicate locations where highest concentrations detected with depths encountered. If "N/A", please explain.

☒☐☐

TRPH was identified at 8,300 µg/L in monitor well MW-11 in the 10/31/17 re-sampling event.

Approximate volume of contaminated groundwater: _____ gallons

Plume maps [Figure(s) 5A] illustrating extent of groundwater contamination
is/are included in Appendix B

TEMPLATE SITE ASSESSMENT REPORT

Site Name: Dade County School Board
Facility ID #: 13/8628726
Date: 11/26/18

III-B) Groundwater Investigation (continued)

Has horizontal delineation been completed in the surficial aquifer? If no, please describe where additional sampling is required (indicating wells and needed analyses) and/or additional monitoring wells should be installed (indicating proposed screened intervals for each). If "N/A", please explain.

YES ☐ NO ☒ N/A ☐

An additional monitor well to the north of MW-11 should be installed.

Site map (Figure) illustrating proposed monitoring well locations are included in Appendix

Has vertical delineation been completed in the plume area? If no, please describe where additional sampling is required (indicating needed analyses) and/or identify locations where vertical extent well(s) should be installed (indicating proposed screened intervals, single or double cased and length of surface casings). If "N/A", please explain.

YES ☐ NO ☒ N/A ☐

There were no vertical extent wells installed during this investigation nor are there any vertical extent wells currently existing in the investigation area.

Site map (Figure) illustrating proposed vertical extent well locations are included in Appendix

TEMPLATE SITE ASSESSMENT REPORT

Dade County School Board

Site Name:

Facility ID #:

13/8628726

Date:

11/26/18

III-B) Groundwater Investigation (continued)

Is the lower aquifer(s) contaminated? If yes, please describe location and estimated depth of contamination. If unknown, please explain.

YES

☐

NO

☐

Unknown

☒

There are no vertical extent wells in the area of investigation.

Cross-section (Figure _____) illustrating vertical extent of contamination is included in Appendix _____

Were natural attenuation parameters data collected? If yes, please specify which parameters were collected (and where collected) and provide interpretation of results.

YES

☐

NO

☒

Site map (Figure _____) illustrating natural attenuation parameter data is included in

Appendix _____

Tabular summary of parameter sampling results (Table _____) is included in Appendix _____

TEMPLATE SITE ASSESSMENT REPORT

Site Name: Dade County School Board
Facility ID #: 13/8628726
Date: 11/26/18

III-B) Groundwater Investigation (continued)

[impacted receptors]

Have any supply wells or surface waters been impacted?

If yes, please indicate concentration(s) of water sample(s) taken and the wells/surface water body/bodies impacted. If unknown, please explain.

YES

☐

NO

☒

Unknown

☐

Is surface water and/or sediment sampling required? If yes, please indicate where samples should be collected, and the proposed analyses.

[Note: surface water sampling results should be summarized with the groundwater analytical results and sediment sampling results should be summarized with the soil analytical results.] If unknown, please explain.

YES

☐

NO

☒

Unknown

☐

Site map (Figure _____) illustrating sampling locations is included in Appendix _____

Are there any potable wells that need to be sampled? If yes, please indicate wells to be sampled, and the proposed analyses. If unknown, please explain.

YES

☐

NO

☒

Unknown

☐

Site map (Figure _____) illustrating potable well locations are included in Appendix _____

TEMPLATE SITE ASSESSMENT REPORT

Dade County School Board

Site Name: _____

Facility ID #: 13/8628726

Date: 11/26/18

III-C) Free Product Investigation

Is free product present? If yes, please indicate where product has been observed and its thickness, describe the product (color, odor, etc.) and estimate the type and age of the product.

YES

☐

NO

☒

Free product was not present during the 2017 and 2018 assessments; however, free product was present during the 2015 and 2016 assessments for a non-program related release in monitor wells MW-1 MW-2, MW-3 and MW-4.

Site map (Figure _____) illustrating free product thickness at well locations is included in Appendix _____

Tabular summary of free product thickness (Table _____) is included in Appendix _____

Has the extent of free product been delineated? If no, please describe where additional wells or piezometers should be located.

YES

☒

NO

☐

N/A

☐

During the 2015 and 2016 assessments conducted by Nutting Environmental, free product was not present and contained in the Tank Pit area only.

Site map (Figure _____) illustrating locations of proposed piezometers or wells is included in Appendix _____

Is free product recovery ongoing? If yes, please indicate the method and frequency of removal and summarize recovery efforts to date.

YES

☐

NO

☒

N/A

☐

Tabular summary of product recovery amounts (Table _____) is included in Appendix _____

If free product recovery is not ongoing, are free product recovery efforts recommended? If yes, please indicate the proposed method and frequency of removal. If no, please explain why product removal is not recommended.

YES

☐

NO

☒

N/A

☐

It was previously recommended that the 12,000-gallon UST's be removed from the site. To date, the USTs have not been removed from the site.

Site map (Figure _____) illustrating locations of proposed additional piezometers and/or wells for free product recovery is included in Appendix _____

TEMPLATE SITE ASSESSMENT REPORT

Dade County School Board

Site Name:

Facility ID #:

13/8628726

Date:

11/26/18

III-D) Comments

Any issues or concerns not addressed in previous questions which might help better describe the degree and extent of the contamination at this site.

In the 2015 and 2016 non-program Site Assessments, free product was identified in monitor wells MW-1 thru MW-4. It was recommended that the two 12,000-gallon UST's be removed and the removal and disposal of any impacted soil. During the 2017 & 2018 investigation, there was no free product measured in any of the monitor wells. It is possible that free product could exist in-between the current out of service UST's. The presence of free product could be an occasional re-occurring event in this area.

TEMPLATE SITE ASSESSMENT REPORT

Site Name: Dade County School Board
Facility ID #: 13/8628726
Date: 11/26/18

SECTION IV - Impacted Media

IV-A) Lithologic Summary

The impacted aquifer(s) can be best characterized by the following description (predominantly):

Select One

<input checked="" type="checkbox"/> Sands [SW, SP, SM]	<input type="checkbox"/> Sandy Clay, Clayey Sand or Silty Clays [SC, ML, CL]	<input type="checkbox"/> Clays [CH]
<input type="checkbox"/> Intermingled Sands and Clays	<input type="checkbox"/> Intermingled Sands, Clays and Limestone	<input type="checkbox"/> Limestone [LS]

Please describe a typical soil column and all defined aquifers (perched/upper/lower). This should include a brief description of the site lithology (using the Unified Soil Classification System), and all other geologic and/or hydrogeologic characteristics of the area which might influence migration or transport of the contamination.

Based on the 2017 Soil boring logs, the soil in this area of the site is very fine sand and silt with limestone fragments (SP & SC) to a depth of 14-ft feet below land surface.

Lithologic cross-section (Figure _____) is included in Appendix _____

Is the lithologic information obtained to date sufficient to characterize the impacted media? If no, please explain [indicating area(s) where additional lithologic data are needed]. A map illustrating where the additional borings/wells need to be located can be omitted if those locations have been identified in the soil and/or groundwater sections.

YES

NO

☒☐

Site map illustrating proposed lithologic boring locations _____) is included in Appendix _____
(Figure _____)

TEMPLATE SITE ASSESSMENT REPORT

Site Name: Dade County School Board
Facility ID #: 13/8628726
Date: 11/26/18

IV-B) Hydrologic Summary

Have all the monitoring well tops-of-casings been surveyed? If no, please describe why this information has not been obtained. [Note, the TOC survey does not have to be performed by a Professional Land Surveyor. However, if the monitoring wells are installed prior to the survey, then the TOCs should be included in the Professional Land Survey.]

YES ☒ NO ☐

Was a professional land survey performed? If yes, please indicate date of survey, whether it was saved on disk (indicating type of program), and who performed it. Also indicate which monitoring wells (if any) were included in the survey. [Note: the site map must be based on the professional land survey.]

YES ☐ NO ☒

Is original signed and sealed professional land survey included? ☐ ^{yes} ☐ ^{no}

Is copy of electronic version of land survey (labeled with ID #, site name & report date) included? ☐ ^{yes} ☐ ^{no}

Have depth to groundwater and groundwater flow direction in the upper zone aquifer been determined? If yes, please indicate average depth to water and fluctuation range (low/high stand) in all impacted areas of the site. If no, please explain.

YES ☒ NO ☐

During the July and October 2017, groundwater sampling events, depth to water ranged from 4.73 to 5.11-ft, respectively. There are no deep (vertical) monitor wells located in this area of the site.

Site map(s) [Figure(s) _____] illustrating upper zone water table elevations and interpretation(s) of groundwater flow direction(s) is/are included in Appendix _____
Tabular summary of all groundwater elevation data (Table _____) is included in Appendix _____

TEMPLATE SITE ASSESSMENT REPORT

Dade County School Board

Site Name:

Facility ID #:

Date:

13/8628726

11/26/18

IV-B) Hydrologic Summary (continued)

Have depth to groundwater and groundwater flow direction(s) in lower and/or intermediate aquifer(s) been determined?

YES

☐

NO

☒

If yes, please indicate average depth to water and fluctuation range in vertical extent wells (low/high stand). If no, please explain.

Site map [Figure(s) _____] illustrating lower/intermediate zone water table elevations and interpretation(s) of groundwater flow direction(s) is/are included in Appendix _____

YES

☐

NO

☒

Are perched aquifer conditions suspected? If yes, please indicate estimated depth and thickness of perched zone and whether perched zone extends across entire site.

Site map (Figure _____) illustrating estimated lateral extent of perched zone (when it does not extend across entire site), water level elevations and interpretation(s) of groundwater flow direction(s) is/are included in Appendix _____

YES

☐

NO

☒

Unknown

☐

Is the site tidally influenced? If yes, please indicate tidal fluctuation range and whether groundwater flow direction might change during tidal cycle.

If unknown, please indicate whether this issue is important at this site (outlining data collection plan if needed).

Site map(s) [Figure(s) _____] illustrating changes in flow direction is/are included in Appendix _____

TEMPLATE SITE ASSESSMENT REPORT

Site Name: Dade County School Board
Facility ID #: 13/8628726
Date: 11/26/18

IV-B) Hydrologic Summary (continued)

Is groundwater flow in the impacted aquifers being influenced by pumping from nearby water supply wells?

YES

☐

NO

☒

Unknown

☐

If yes, please explain how this was determined and indicate which water well(s) are influencing groundwater flow. If unknown, please indicate whether this issue is important at this site (outlining data collection plan if needed).

Site map(s) [Figure(s) _____] illustrating changes in flow direction due to pumping from nearby water supply wells is/are included in Appendix _____

Has the average hydraulic gradient (ft/ft) been determined? If yes, please indicate range of values (if applicable) and

YES

☒

NO

☐

N/A

☐

whether gradient is uniform across the site. Is there evidence of a vertical gradient? If "N/A", please explain.

As reported in the 1993 CAR Addendum, the following was reported -
Average hydraulic gradient = 0.0008 ft/ft, with a flow direction to the ENE.

Hydraulic gradient data and calculations included in Appendix _____

Have any aquifer tests been performed at the subject site?

YES

☐

NO

☒

If yes, please describe test method (slug test, pumping test, etc.), which wells were used, date performed and summarize test results [transmissivity, hydraulic conductivity, rate of groundwater flow, pumping rates (gpm), etc.]

Aquifer test data and calculations included in Appendix _____

TEMPLATE SITE ASSESSMENT REPORT

Site Name: Dade County School Board
Facility ID #: 13/8628726
Date: 11/26/18

IV-B) Hydrologic Summary (continued)

Depth to groundwater in upper zone water-table wells (ft):	<u>4.11</u>	to	<u>5.72</u>	Average (ft):	<u>4.91</u>
Depth to groundwater in lower zone vertical extent wells (ft):		to		Average (ft):	
Observed maximum range of upper zone fluctuation (ft):		Tidally influenced? Yes		<input type="checkbox"/>	No <input checked="" type="checkbox"/>

IV-C) Risk Evaluation

Is human health, safety, or welfare affected by exposure to the contamination or will the contamination substantially affect, or migrate to and substantially affect a known public or private source of potable water? If yes, please describe in detail.

YES ☐ NO ☒

SECTION V - Post Assessment Summary & Recommendations

Filled out AFTER site assessment has been completed

V-A) Site Assessment Summary

The Site Assessment Summary table shall be completed and submitted as an attachment to this TSAR. The summary is a separate Excel worksheet.

Site Assessment Summary completed and included as Table 5 in Appendix A.

Are all the documents submitted to date adequate to meet the site assessment requirements of Rule 62-780.600, Florida Administrative Code (F.A.C.)?

YES

☒

NO

☐

V-B) Recommendations

Is No Further Action (NFA) without conditions recommended? If yes, please provide reasons NFA is appropriate.

YES

☐

NO

☒

Is No Further Action (NFA) with conditions recommended?

If yes, please provide reasons conditional NFA is appropriate and describe the conditions [the needed institutional or engineering controls] pursuant to Rule 62-770.680(2), F.A.C.

YES

☐

NO

☒

TEMPLATE SITE ASSESSMENT REPORT

Site Name: Dade County School Board
Facility ID #: 13/8628726
Date: 11/26/18

V-B) Recommendations (continued)

If the groundwater plume is shrinking or stable is there any reason that Remediation by Natural Attenuation (RNA) cannot be the selected remedial strategy?

YES

☐

NO

☒

If no, outline the proposed monitoring plan including monitoring wells, sampling parameters and sampling frequency. If yes, specify why natural attenuation is not appropriate.

AET recommends the installation of an additional monitor well north of MW-11. AET also recommends sampling monitor wells MW-1 thru MW-4, MW-10 thru MW-12, and the proposed new monitor well on a quarterly basis for one year. Based on the groundwater analytical data, AET will recommend the appropriate course of action (i.e., additional monitoring, site closure, etc.).

Monitoring Wells: MW-1, 2, 3, 4, MW-10, 11, 12, proposed well

Contaminants: BTEX/MTBE, PAH, TRPH Frequency: quarterly Duration: 1 year

Is Source Removal (soil or free product) recommended? If yes, please outline proposed method and extent of source removal (is dewatering needed?)

YES

☒

NO

☐

As per the 2015, and 2016, assessment reports, AET would also recommend the removal the two (2) 21,000-gallon tanks currently listed as inactive in the area 4 investigation area. Free product was identified in the four (4) wells, MW-1 thru MW-4 around these tanks. If free products exist within the tank pit area, the excavation of the USTs could aid in the source being abated.

Site map (Figure) illustrating proposed extent of excavation is included in Appendix

TEMPLATE SITE ASSESSMENT REPORT

Dade County School Board

Site Name:

Facility ID #:

13/8628726

Date:

11/26/18

V-B) Recommendations (continued)

YES

NO

*Is a Limited Scope Remedial Action Plan (LSRAP) needed?**If yes, please provide reasons for performing limited remediation and briefly outline plan for remediation.*☐☒

At this time, a LSRAP is not recommended. Based on future analytical data, a LSRAP may be considered.

Site map (Figure _____) illustrating locations of any proposed recovery wells (if applicable)
is included in Appendix _____

If RAP already approved for site...

YES

NO

*Is a Remedial Action Modification Plan (RAMP) needed?**If yes, please provide reasons for continuing approved RA at the site and indicate proposed modifications.*☐☒

At this time, a RAPMOD is not recommended.

TEMPLATE SITE ASSESSMENT REPORT

Dade County School Board

Site Name:

Facility ID #:

13/8628726

Date:

11/26/18

V-B) Recommendations (continued)

YES

NO

Is a Remedial Action Plan (RAP) needed? If yes, please provide reasons for performing in-situ remediation at the site and indicate which remediation technology or combination of technologies is recommended or should be evaluated (with reasons for recommendation).

☐☒

At this time, a RAP is not recommended. Based on future analytical data, a RAP may be considered.

YES

NO

Is a Pilot Test recommended? If yes, please indicate recommended remedial technology and outline specifics of proposed pilot test. Details include area of site where test is planned, recovery/air sparging well construction details, which wells will be used to evaluate test, proposed recovery and/or pumping and/or blowing rates and plan for IDW disposal (if applicable).

☐☒

The FDEP should be consulted before preparing a pilot test outline.

At this time, a Pilot Test is not recommended. Based on future analytical data, a Pilot Test may be considered.

Site map (Figure _____) illustrating pilot test layout is included in Appendix _____

TEMPLATE SITE ASSESSMENT REPORT

Dade County School Board

Site Name:

Facility ID #:

13/8628726

Date:

11/26/18

V-C) Comments

Any issues or concerns not addressed in previous questions which might influence remediation decisions at this site.

In the 2015, and 2016, non-program Site Assessments, free product was identified in monitor wells MW-1 thru MW-4. It was recommended that the two (2) 12,000-gallon UST's be removed and impacted soil be removed and transported off-site to an approved disposal facility for proper disposal. During the 2017, and 2018, investigation, free product was not measured in any of the monitor wells sampled. It is possible that free product could still exist in-between the current out of service UST's, which could be a continual source of contamination to the soil and groundwater in this area.

TEMPLATE SITE ASSESSMENT REPORT

Site Name: Dade County School Board
 Facility ID #: 13/8628726
 Date: 11/26/18

SECTION VI - Program Issues **(for state funded cleanup sites)**

List of all consultant company personnel (not subcontractor employees) that participated in the field work or helped to prepare the report:

<u>Name</u>	<u>Duties</u>	<u>Dates On-Site</u> <u>(if applicable)</u>		
Andres Sanchez	E.I./Reviewer	2017	thru	2018
Dan Warmke, P.G.	Report Perpetration/Review	2018	thru	2018
Justiano Marquez, G.I.T.	Field Scientist	2017	thru	2018
Gabrielle Brooks, E.I.	CADD	2018	thru	2018
Jerry Reeves, LEP #405	Senior P.M./Reviewer	2018	thru	2018
			thru	
			thru	
			thru	
			thru	

VI-A) Work Plan and Cost Summary

Briefly summarize initial work plan.

Copy of original work order or task assignment is included in appendix _____

Was any extra work authorized? If yes, please summarize extra work planned for site.

YES

NO

X

Change order #8 was approved to conduct a GPR survey to locate utilities, lines and subsurface features in area 4.

Change order #12 was approved to collect confirmatory soil samples from SB-31 and SB-32.

Copies of all authorization forms are included in Appendix F

TEMPLATE SITE ASSESSMENT REPORT

Dade County School Board

Site Name:

Facility ID #:

Date:

13/8628726

11/26/18

VI-A) Work Plan and Cost Summary (continued)

YES

NO

Was any planned work not performed? If yes, please describe work not performed with reasons why not performed.

☐☒

YES

NO

Are there any changes in cost from original work order, purchase order, or task assignment? If yes, please describe the changes and cost adjustments that will be required for invoicing.

☒☐

Change Order #2 approved contingency funds of \$7,000.

Change Order #8 added costs of \$1,819.48 to conduct the GPR survey.

Change Order #12 added costs of \$1,677.94 to collect and analyze soil samples from SB-31 & SB-32.

Copies of all needed subcontractor and/or materials invoices and draft change order cost template included in Appendix F

APPENDIX A

TABLES

Table 1A
Soil Headspace Analysis Results using Photo-Ionization Detector (PID) Central East Transportation
7011 Southwest 4th Street Miami, Miami-Dade County, Florida
UT-1354/File-2866, FDEP Facility ID#: 8628726

Boring	Date	Depth to Water	Depth	Field Headspace Testing Results (in ppm)	Comments
SB-1	6/30/2015	~ 5'	0 - 2'	2.8	
			2' - 4'	2.3	
			4' - 6'	4.9	
			6' - 8'	1.6	
					No odors or staining observed
		Lithology:	0 - 2"	Asphalt	
			2" - 12"	Light brown quartz fine sand with limestone fragments	
			12" - 3'	Greyish/brown quartz fine sand with limestone fragments	
			3' - 3'6"	Greyish/brown quartz fine sand	
			3'6" - 5'	Light brown quartz fine sand	
			5' - 7'	Loose light brown quartz fine sand with some limestone fragments	
			7' - 8'	Light brown quartz fine sand	
Boring	Date	Depth to Water	Depth	Field Headspace Testing Results (in ppm)	Comments
SB-2	6/30/2015	~ 5'	0 - 2'	17.6	Submitted for Lab Analysis
			2' - 4'	10.7	
			4' - 6'	12.9	
			6' - 8'	79.3	
					No odors or staining observed
		Lithology:	0 - 6"	Asphalt	
			6" - 3'	Greyish brown quartz fine sand with limestone fragments	
			3' - 5'	Brown quartz fine sand	
			5' - 8'	Brown quartz fine sand with limestone fragments	
Boring	Date	Depth to Water	Depth	Field Headspace Testing Results (in ppm)	Comments
SB-3	6/30/2015	~ 5'	0 - 2'	3.1	
			2' - 4'	8.6	
			4' - 6'	4.5	
			6' - 8'	4.1	
					No odors or staining observed
		Lithology:	0 - 3"	Asphalt	
			3" - 12"	Light brown quartz fine sand & limestone fragments	
			12" - 5'	Greyish brown quartz fine sand	
			5' - 6'	Brown/ grey quartz fine sand	
			6' - 8'	Grey quartz fine sand	

Table 1A
Soil Headspace Analysis Results using Photo-Ionization Detector (PID) Central East Transportation
7011 Southwest 4th Street Miami, Miami-Dade County, Florida
UT-1354/File-2866, FDEP Facility ID#: 8628726

Boring	Date	Depth to Water	Depth	Field Headspace Testing Results (in ppm)	Comments
SB-4	6/30/2015	~ 5'	0-2'	2.0	
			2'-4'	2.7	
			4'-6'	4.0	
			6'-8'	3.8	
					No odors or staining observed
		Lithology:	0 - 2"	Asphalt	
			2" - 12"	Light brown limestone fragments & quartz fine sand	
			12" - 4'6"	Greyish brown quartz fine sand	
			4'6" - 7'	Brown quartz fine sand & trace of limestone	
			7' - 8'	Greyish brown quartz fine sand	
Boring	Date	Depth to Water	Depth	Field Headspace Testing Results (in ppm)	Comments
SB-5	6/30/2015	~ 5'	0 - 2'	2.0	
			2' - 4'	3.6	
			4' - 6'	8.3	
			6' - 8'	4.9	
					No odors or staining observed
		Lithology:	0 - 3"	Asphalt	
			3" - 12"	Light brown quartz fine sand & limestone fragments	
			12" - 30"	Dark brown quartz fine sand	
			30" - 5'	Grey brown quartz fine sand	
			5' - 7'	Brown clay quartz fine sand & some root	
			7' - 8'	Brown quartz fine sand & little limestone frag	
Boring	Date	Depth to Water	Depth	Field Headspace Testing Results (in ppm)	Comments
SB-6	6/30/2015	~ 5'	0 - 2'	3.7	
			2' - 4'	1.7	
			4' - 6'	2.5	
			6' - 8'	3.1	
					No odors or staining observed
		Lithology:	0 - 3"	Asphalt	
			3" - 8"	Light brown limestone fragments & quartz fine sand	
			8" - 12"	Dark brown quartz fine sand	
			12" - 8'	Brown quartz fine sand	

Table 1A
Soil Headspace Analysis Results using Photo-Ionization Detector (PID) Central East Transportation
7011 Southwest 4th Street Miami, Miami-Dade County, Florida
UT-1354/File-2866, FDEP Facility ID#: 8628726

Boring	Date	Depth to Water	Depth	Field Headspace Testing Results (in ppm)	Comments
SB-7	6/30/2015	~ 5'	0 - 2'	2.6	
			2' - 4'	2.6	
			4' - 6'	2.4	
			6' - 8'	2.9	
					No odors or staining observed
	Lithology:	0 - 2"	Asphalt		
		2" - 5'	Grey/brown quartz fine sand		
		5' - 8'	Brown quartz fine sand with little limestone fragments		
Boring	Date	Depth to Water	Depth	Field Headspace Testing Results (in ppm)	Comments
SB-8	6/30/2015	~ 5'	0 - 2'	9.8	Submitted for Lab Analysis
			2' - 4'	4.5	
			4' - 6'	3.9	
			6' - 8'	2.4	
					No odors or staining observed
	Lithology:	0 - 2"	Asphalt		
		2" - 8"	Light brown limestone fragments and quartz fine sand		
		8" - 4'	Brown quartz fine sand		
		4' - 8'	Light brown quartz fine sand with little limestone fragments		
Boring	Date	Depth to Water	Depth	Field Headspace Testing Results (in ppm)	Comments
SB-9	6/30/2015	~ 5'	0 - 2'	0.0	
			2' - 4'	0.0	
			4' - 6'	156.2	Submitted for Lab Analysis
			6' - 8'	123.9	
					No odors or staining observed
	Lithology:	0 - 6"	Concrete		
		6" - 2'	Light brown limestone fragment & quartz fine		
		2' - 4'	Brown quartz fine sand & limestone fragment		
		4' - 7'	Brownish clay/ grey quartz fine sand		
		7' - 8'	Light brown quartz fine sand		

Table 1A
Soil Headspace Analysis Results using Photo-Ionization Detector (PID) Central East Transportation
7011 Southwest 4th Street Miami, Miami-Dade County, Florida
UT-1354/File-2866, FDEP Facility ID#: 8628726

Boring	Date	Depth to Water	Depth	Field Headspace Testing Results (in ppm)	Comments
SB-10	6/30/2015	~ 5'	0 - 2'	11.2	
			2' - 4'	4.6	
			4' - 6'	246.6	Submitted for Lab Analysis
			6' - 8'	88.5	
					Odor in 4'-6' interval BLS
	Lithology:	0 - 6"	Concrete		
		6" - 2'	Light brown quartz fine sand		
		2' - 5'	Brownish grey quartz fine sand		
		5' - 7'	Clayish grey quartz fine sand		
		7' - 8'	Brown quartz fine sand		
Boring	Date	Depth to Water	Depth	Field Headspace Testing Results (in ppm)	Comments
SB-11	6/30/2015	~ 5'	0 - 2'	2.8	
			2' - 4'	6.9	
			4' - 6'	19.7	Submitted for Lab Analysis
			6' - 8'	7.0	
					No odors or staining observed
	Lithology:	0 - 2"	Asphalt		
		2" - 6"	Light brown quartz fine sand & limestone fragments		
		6" - 12"	Dark brown quartz fine sand		
		12" - 5'	Greyish brown quartz fine sand		
		5' - 7'	Slightly silty brown quartz fine sand & little limestone fragments		
		7' - 8'	Light brown quartz fine sand		
Boring	Date	Depth to Water	Depth	Field Headspace Testing Results (in ppm)	Comments
SB-12	6/30/2015	~ 5'	0 - 2'	2.6	
			2' - 4'	12.9	
			4' - 6'	10.9	
			6' - 8'	9.7	
					No odors or staining observed
	Lithology:	0 - 2"	Asphalt		
		2" - 8"	Light brown limestone fragments and quartz fine sand		
		8" - 18"	Dark brown quartz fine sand		
		18" - 3'6"	Light brown quartz fine sand		
		3'6" - 4'	Brown clay & limestone fragments		
		4' - 5'	Loose brown quartz fine sand and some limestone fragments		
		5' - 7'6"	Light brown quartz fine sand with little limestone fragments		
		7'6" - 8"	Light tan quartz fine sand		

Table 1A
Soil Headspace Analysis Results using Photo-Ionization Detector (PID) Central East Transportation
7011 Southwest 4th Street Miami, Miami-Dade County, Florida
UT-1354/File-2866, FDEP Facility ID#: 8628726

Boring	Date	Depth to Water	Depth	Field Headspace Testing Results (in ppm)	Comments
SB-13	6/30/2015	~ 5'	0 - 2'	5.8	
			2' - 4'	2.7	
			4' - 6'	2.2	
			6' - 8'	1.4	
					No odors or staining observed
	Lithology:	0 - 2"	Asphalt		
		2" - 12"	Light brown limestone fragments & quatz fine sand		
		12" - 3'	Light brown quatz fine sand		
		3' - 5'	Brown quartz fine sand		
		5' - 6'	Loose brown quartz fine sand & trace limestone fragments		
		6' - 8'	Light brown quartz fine sand		
Boring	Date	Depth to Water	Depth	Field Headspace Testing Results (in ppm)	Comments
SB-14	6/30/2015	~ 5'	0 - 2'	2.3	
			2' - 4'	3.5	
			4' - 6'	8.9	
			6' - 8'	5.2	
					No odors or staining observed
	Lithology:	0 - 2"	Asphalt		
		2" - 12"	Light brown limestone fragments and quartz fine sand		
		12" - 5'	Brown quartz fine sand		
		5' - 8'	Light brown quartz fine sand with traces of limestone fragments		
Boring	Date	Depth to Water	Depth	Field Headspace Testing Results (in ppm)	Comments
SB-15	6/30/2015	~ 5'	0 - 2'	2.1	
			2' - 4'	6.6	
			4' - 6'	6.6	
			6' - 8'	1.8	
					No odors or staining observed
			0-2"	Asphalt	
	Lithology:	0 - 2"	Asphalt		
		2" - 3'	Greyish brown quartz fine sand		
		3' - 8'	Light brown quartz fine sand & some limestone fragments		

TABLE 1: SOIL SCREENING SUMMARY

Facility Name: Dade County School Board - Transportation
Address: 7011 SW 4th Street
City, State: Miami, FL
County: Miami-Dade
FDEP FAC#: 13/8628726
AET Project #: 26672.00

Not Applicable = N/A
 All Measurements = Feet.
 No Data = " "
 Free Product Recovery = FPR

SAMPLE				OVA-FID SCREENING RESULTS			
BORING NO.	DATE COLLECTED	DEPTH TO WATER (ft bls)	SAMPLE INTERVAL (ft bls)	TOTAL READING (ppm)	CARBON FILTERED (ppm)	NET READING (ppm)	COMMENTS
SB-16	12/18/2017	6	1	100	8.5	91.5	SOIL SAMPLE SB-16@1-2
			2	90	10	80	AKA SB-32@1-2
			3	37.5	25	12.5	
			4	680	16	664	SOIL SAMPLE SB-16@4
			6	1760	13	1747	AKA SB-32@4
			8	1193	12	1181	
			10	540	8	532	
			12	670	12	658	
			14	265	7	258	
SB-17	12/18/2017	6	1	120	0	120	
			2	160	0	160	
			3	6	0	6	
			4	157	0	157	
			6	1490	5	1485	
			8	103	10.5	92.5	
			10	42	10.5	31.5	
			12	27	7	20	
			14	52	6.5	45.5	
SB-18	12/18/2017	6	1	0	0	0	
			2	0	0	0	
			3	1.5	0	1.5	
			4	0	0	0	
			6	114	16	98	
			8	42	3	39	
			10	17	0	17	
			12	560	0	560	
			14	440	0	440	
SB-19	12/18/2017	6	1	0	0	0	
			2	0	0	0	
			3	582	42	540	
			4	1500	50	1450	
			6	1950	12	1938	
			8	1380	21	1359	
			10	740	5	735	
			12	435	1	434	
			14	440	2	438	

TABLE 1: SOIL SCREENING SUMMARY

Facility Name: Dade County School Board - Transportation
Address: 7011 SW 4th Street
City, State: Miami, FL
County: Miami-Dade
FDEP FAC#: 13/8628726
AET Project #: 26672.00

Not Applicable = N/A
 All Measurements = Feet.
 No Data = " "
 Free Product Recovery = FPR

SAMPLE				OVA-FID SCREENING RESULTS			
BORING NO.	DATE COLLECTED	DEPTH TO WATER (ft bls)	SAMPLE INTERVAL (ft bls)	TOTAL READING (ppm)	CARBON FILTERED (ppm)	NET READING (ppm)	COMMENTS
SB-21	12/19/2017	N/A	1	0	0	0	
			2	0	0	0	
			3				bore terminated due to
			4				pea gravel
			6				
			8				
SB-22	12/19/2017	6	1	0	0	0	
			2	0	0	0	SOIL SAMPLE SB-22@1-2
			3	0	0	0	
			4	0	0	0	SOIL SAMPLE SB-22@4
			6	1	1	0	
			8	0	0	0	
			10	0	0	0	
SB-23	12/19/2017	6	1	0.5	0.5	0	
			2	0	0	0	
			3	0	0	0	
			4	0	0	0	
			6	3	2	1	
			8	59	8	51	
			10	305	79	226	
SB-24	12/19/2017	6	1	0	0	0	
			2	0	0	0	
			3	1.5	1.2	0.3	
			4	0	0	0	
			6	213	7	206	
			8	2800	47	2753	
			10	250	140	110	
SB-25	12/19/2017	6	1	0	0	0	
			2	0	0	0	
			3	0	0	0	
			4	0	0	0	
			6	3	2	1	
			8	18.5	10	8.5	
			10	89	70	19	

TABLE 1: SOIL SCREENING SUMMARY

Facility Name: Dade County School Board - Transportation
Address: 7011 SW 4th Street
City, State: Miami, FL
County: Miami-Dade
FDEP FAC#: 13/8628726
AET Project #: 26672.00

Not Applicable = N/A
 All Measurements = Feet.
 No Data = " "
 Free Product Recovery = FPR

SAMPLE				OVA-FID SCREENING RESULTS			
BORING NO.	DATE COLLECTED	DEPTH TO WATER (ft bls)	SAMPLE INTERVAL (ft bls)	TOTAL READING (ppm)	CARBON FILTERED (ppm)	NET READING (ppm)	COMMENTS
SB-26	12/19/2017	6	1	1	0	1	
			2	0	0	0	SOIL SAMPLE SB-26@1-2
			3	0	0	0	
			4	0	0	0	SOIL SAMPLE SB-26@4
			6	2	0	2	
			8	2.5	0	2.5	
			10	8	8	0	
			12	0	0	0	
			14	0	0	0	
SB-27	12/19/2017	6	1	0	0	0	
			2	0	0	0	
			3	0	0	0	
			4	0	0	0	
			6	8	2	6	
			8	12	3	9	
			10	7.5	0	7.5	
			12	3	1	2	
			14	1	0	1	
SB-29	12/18/2017	6	1	0.5	0.5	0	
			2	1.5	0.5	1	
			3	0.5	0	0.5	
			4	1	1	0	
			6	0	0	0	
			8	0	0	0	
			10	0	0	0	
			12	0	0	0	
			14	0	0	0	
SB-30	12/19/2017	6	1	0	0	0	
			2	0	0	0	
			3	0	0	0	
			4	0.5	0.5	0	
			6	0	0	0	
			8	0	0	0	
			10	0.5	0.5	0	
			12	0	0	0	
			14	0	0	0	
SB-31	12/18/2017	6	1	0	0	0	
			2	550	5	545	
			3	2300	14	2286	
			4	1700	8	1692	SOIL SAMPLE SB-31@4
			6	1345	5	1340	
			8	270	1.5	268.5	
			10	100	4	96	
			12	119	3	116	
			14	50	12	38	

TABLE 2A: SOIL ANALYTICAL SUMMARY - VOAs, TRPHs and Metals

Facility ID#: 13/8628726

Facility Name: DADE CNTY SCHOOL BD-TRANSPORTATION

See notes at end of table.

Sample				OVA	Laboratory Analyses										Comments
Boring/ Well No.	Date Collected	Depth to Water (ft)	Sample Interval (fbls)	Net OVA Reading (ppm)	Benzene (mg/kg)	Ethyl-benzene (mg/kg)	Toluene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	TRPHs (mg/kg)	Arsenic (mg/kg)	Cad-mium (mg/kg)	Chro-mium (mg/kg)	Lead (mg/kg)	
Leachability Based on Groundwater Criteria (mg/kg)					0.007	0.6	0.5	0.2	0.09	340	*	7.5	38	*	
Direct Exposure Residential (mg/kg)					1.2	1,500	7,500	130	4,400	460	2.1	82	210	400	
SB-2 0-2	7/1/2015		0-2		0.0025 U	0.0027 U	0.0026 U	0.0050 U	0.0024 U	2.6 U					
SB-8 0-2	7/1/2015		0-2		0.0025 U	0.0027 U	0.0026 U	0.0050 U	0.0024 U	2.6 U					
SB-9 4-5	7/1/2015		4-5		0.0025 U	0.0027 U	0.0026 U	0.0050 U	0.0024 U	2.7 U					
SB-10 4-5	7/1/2015		4-5		0.0025 U	0.0027 U	0.0026 U	0.0050 U	0.0024 U	2.8 U					
SB-11 4-5	7/1/2015		4-5		0.0025 U	0.0027 U	0.0026 U	0.0050 U	0.0024 U	2.7 U					
SB-22 @ 1'-2'	12/19/2017	6	1-2	0	0.00048 U	0.00012 U	0.00034 U	0.0011 U	0.00058 U	2.2 U					
SB-22 @ 4'	12/19/2017	6	4	0	0.00049 U	0.00013 U	0.00036 U	0.0012 U	0.00060 U	2.2 U					
SB-26 @ 1'-2'	12/19/2017	6	1-2	0	0.00048 U	0.00012 U	0.00035 U	0.0011 U	0.00059 U	55					
SB-26 @ 4'	12/19/2017	6	4	0	0.00050 U	0.00013 U	0.00036 U	0.0012 U	0.00062 U	2.2 U					
SB-31 @ 4'	12/19/2017	6	4	1692	0.00048 U	0.00013 U	0.00035 U	0.0012 U	0.00058 U	4300					
SB-31R	6/25/2018		4		0.0010 U	0.00085 U	0.0010 U	0.0021 U	0.00059 U	5700					
SB-31RR	9/8/2018		4							1300					
SB-32 @ 1'-2'	12/19/2017	6	1-2	80	0.00049 U	0.00012 U	0.00035 U	0.0012 U	0.00060 U	61					SB-16@1-2
Sb-32 RR	6/25/2018		1-2		0.0013 U	0.0010 U	0.0013 U	0.0025 U	0.00071 U	24					
SB-32 @ 4'	12/19/2017	6	4	664	0.00048 U	0.00013 U	0.00035 U	0.0012 U	0.00059 U	1700					SB-16@4
SB32RR	6/25/2018		4		0.0011 U	0.0084 U	0.0011 U	0.0021 U	0.00058 U	5400					
PREBURN	12/19/2017										0.39 I	0.030 I	6.0 V	0.78	

Notes: NA = Not Available.
 NS = Not Sampled.
 * = Leachability value may be determined using TCLP.

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

Facility ID#: 13/8628726

Facility Name: DADE CNTY SCHOOL BD-TRANSPORTATION

See notes at end of table.

Sample				OVA	Laboratory Analyses											Comments
Boring/ Well No.	Date Collected	Depth to Water (ft)	Sample Interval (fbls)	Net OVA Reading (ppm)	Naph- thalene (mg/kg)	1-Methyl- naph- thalene (mg/kg)	2-Methyl- naph- thalene (mg/kg)	Acen- aph- thene (mg/kg)	Acen- aph- thylene (mg/kg)	Anthra- cene (mg/kg)	Benzo (g,h,i) pery- (mg/kg)	Fluoran- thene (mg/kg)	Fluor- ene (mg/kg)	Phenan- threne (mg/kg)	Pyrene (mg/kg)	
Leachability Based on Groundwater Criteria (mg/kg)					1.2	3.1	8.5	2.1	27	2,500	32,000	1,200	160	250	880	
Direct Exposure Residential (mg/kg)					55	200	210	2,400	1,800	21,000	2,500	3,200	2,600	2,200	2,400	
SB-2 0-2	7/1/2015		0-2		0.011 U	0.0056 U	0.0044 U	0.0050 U	0.0035 U	0.0046 U	0.0039 U	0.0045 U	0.0044 U	0.013 U	0.037	
SB-8 0-2	7/1/2015		0-2		0.011 U	0.0056 U	0.0044 U	0.0049 U	0.0035 U	0.0046 U	0.0041 U	0.0041 U	0.0044 U	0.013 U	0.0036 U	
SB-9 4-5	7/1/2015		4-5		0.011 U	0.0058 U	0.0077 I	0.0052 U	0.0037 U	0.0048 U	0.0041 U	0.0047 U	0.0046 U	0.013 U	0.0037 U	
SB-10 4-5	7/1/2015		4-5		0.015 I	0.019 I	0.028 I	0.053 U	0.0038 U	0.0049 U	0.0041 U	0.0048 U	0.0047 U	0.041 U	0.0038 U	
SB-11 4-5	7/1/2015		4-5		0.011 U	0.0057 U	0.0046 U	0.0051 U	0.0036 U	0.0048 U	0.0040 U	0.0047 U	0.0045 U	0.013 U	0.0037 U	
SB-22 @ 1'-2'	12/19/2017	6	1-2	0	0.010 U	0.0076 U	0.0081 U	0.017 U	0.0080 U	0.011 I	0.011 I	0.037 I	0.0087 U	0.015 U	0.031 I	
SB-22 @ 4'	12/19/2017	6	4	0	0.011 U	0.0077 U	0.0082 U	0.017 U	0.0081 U	0.0074 U	0.010 U	0.0095 U	0.0088 U	0.015 U	0.0086 U	
SB-26 @ 1'-2'	12/19/2017	6	1-2	0	0.010 U	0.0075 U	0.0080 U	0.016 U	0.0079 U	0.018 I	0.010 U	0.017 I	0.0086 U	0.014 U	0.012 I	
SB-26 @ 4'	12/19/2017	6	4	0	0.011 U	0.0078 U	0.0083 U	0.017 U	0.0082 U	0.0075 U	0.010 U	0.018 I	0.0090 U	0.024 I	0.013 I	
SB-31 @ 4'	12/19/2017	6	4	1692	0.52	1.4	1.7	0.058 I	0.019 I	0.0074 U	0.062 I	0.12	0.20	0.67	0.010 I	
SB-31R	6/25/2018		4		0.60	1.8	3	0.015 U	0.0095 U	0.0084 U	0.12	0.25	0.0080 U	0.82	0.70	
SB-32 @ 1'-2'	12/19/2017	6	1-2	80	0.011 U	0.0081 U	0.0086 U	0.018 U	0.0085 U	0.010 I	0.20	0.20	0.0093 U	0.015 U	0.18	SB-16@1-2
SB-32 RR	6/25/2018		1-2		0.021 U	0.013 U	0.019 U	0.016 U	0.011 U	0.0093 U	0.12	0.071 I	0.0088 U	0.019 I	0.074 I	
SB-32 @ 4'	12/19/2017	6	4	664	0.070 I	0.21	0.073	0.017 I	0.020 I	0.012 I	0.089	0.057 I	0.052 I	0.068 I	0.12	SB-16@4
SB-32RR	6/25/2018		4		0.78	2.7	3.1	0.015 U	0.0097 U	0.0085 U	0.076	0.20	1.4	1.2	0.65	

Notes: NA = Not Available.
NS = Not Sampled.

TABLE 2C: SOIL ANALYTICAL SUMMARY - Carcinogenic PAHs

Facility ID#: 13/8628726

Facility Name: DADE CNTY SCHOOL BD-TRANSPORTATION

See notes at end of table.

Sample				OVA	Laboratory Analyses								Comments
Boring/ Well No.	Date Collected	Depth to Water (ft)	Sample Interval (fbis)	Net OVA Reading (ppm)	Benzo (a) pyrene (mg/kg)	Benzo (a) anthra- (mg/kg)	Benzo (b) fluoran- (mg/kg)	Benzo (k) fluoran- (mg/kg)	Chry- sene (mg/kg)	Dibenz (a,h) anthra- (mg/kg)	Indeno (1,2,3-cd) pyrene (mg/kg)	Benzo (a) pyrene (mg/kg)	
Leachability Based on Groundwater Criteria (mg/kg)					8	0.8	2.4	24	77	0.7	6.6	**	
Direct Exposure Residential (mg/kg)					0.1	#	#	#	#	#	#	0.1	
SB-2 0-2	7/1/2015		0-2		0.046	0.030 I	0.057	0.023 I	0.04	0.08	0.084		
SB-8 0-2	7/1/2015		0-2		0.0039 U	0.0041	0.025 U	0.0073 U	0.0040 U	0.0052 U	0.0059 U		
SB-9 4-5	7/1/2015		4-5		0.0041 U	0.0042 U	0.026 U	0.0076 U	0.0041 U	0.0053 U	0.0060 U		
SB-10 4-5	7/1/2015		4-5		0.0042 U	0.0043 U	0.027 U	0.0077 U	0.0043 U	0.0055 U	0.0062 U		
SB-11 4-5	7/1/2015		4-5		0.0041 U	0.0042 U	0.026 U	0.0075 U	0.0042 U	0.0054 U	0.0061 U		
SB-22 @ 1'-2'	12/19/2017	6	1-2	0	0.015 I	0.010 U	0.027 I	0.0094 I	0.017 I	0.011 U	0.015 I	0.03	
SB-22 @ 4'	12/19/2017	6	4	0	0.0095 U	0.010 U	0.010 U	0.0092 U	0.012 U	0.012 U	0.0072 U		
SB-26 @ 1'-2'	12/19/2017	6	1-2	0	0.0092 U	0.0099 U	0.0099 U	0.0090 U	0.011 U	0.011 U	0.0071 U		
SB-26 @ 4'	12/19/2017	6	4	0	0.0096 U	0.010 U	0.010 U	0.0094 U	0.012 U	0.012 U	0.0074 U		
SB-31 @ 4'	12/19/2017	6	4	1692	0.085	0.057 I	0.13	0.053 I	0.053 I	0.016 I	0.075	0.13	
SB-31R@4	6/25/2018		4		0.092	0.10	0.13	0.057 I	0.078	0.028 I	0.12	0.16	
SB-32 @ 1'-2'	12/19/2017	6	1-2	80	0.23	0.17	0.33	0.12	0.012 U	0.045 I	0.20	0.35	SB-16@1-2
SB-32RR @1-2	6/25/2018		1-2		0.10	0.0081 U	0.13	0.049 I	0.074 I	0.041 I	0.11	0.17	
SB-32 @ 4'	12/19/2017	6	4	664	0.12	0.037 I	0.16	0.052 I	0.061 I	0.023 I	0.10	0.17	SB-16@4
SB-32RR @4	6/25/2018		4		0.062 I	0.0074 U	0.074	0.034 I	0.046 I	0.020 I	0.064 I	0.097	

Notes:

NA = Not Available.

NS = Not Sampled.

** = Leachability value not applicable.

= Direct Exposure value not applicable except as part of the Benzo(a)pyrene equivalent.

TABLE 2D: Benzo(a)pyrene Conversion

For Direct Exposure Soil Cleanup Target Levels

Instructions can be found below the table

Facility/Site Name:	Dade County School
Site Location:	7001 SW 4th Street, Miami, FL
Facility/Site ID No.:	13/8628726

SCTL Type	Value	Units
Residential Direct Exposure SCTL	0.1	mg/kg
Industrial Direct Exposure SCTL	0.7	mg/kg
Alternative SCTL (Optional)		mg/kg
Site Specific Background (Optional)		mg/kg

TEF = Toxic Equivalency Factor

Soil Sample #	SB-22 @ 1-2	Sb-31 @ 4	SB-32 @ 1-2	SB 32 @ 4	SB-31R @4	SB-32RR @1-2	SB-32RR @4			
Sample Date	12/19/2017	12/19/2017	12/19/2017	12/19/2017	6/25/2018	6/25/2018	6/25/2018			
Location:	East of UST	North of UST	East of MW-11	East of MW-11	North of UST	East of MW-11	East of MW-11			
Depth (ft):	1-2	4	1-2	4	4	1-2	4			
Contaminant Concentrations										
Contaminant	TEF	SB-22 @ 1-2 (mg/kg)	Sb-31 @ 4 (mg/kg)	SB-32 @ 1-2 (mg/kg)	SB 32 @ 4 (mg/kg)	SB-31R @4 (mg/kg)	SB-32RR @1-2 (mg/kg)	SB-32RR @4 (mg/kg)		
Benzo(a)pyrene	1.0	0.015	0.085	0.23	0.12	0.092	0.1	0.062		
Benzo(a)anthracene	0.1	0.005	0.057	0.17	0.037	0.1	0.004	0.0037		
Benzo(b)fluoranthene	0.1	0.027	0.13	0.33	0.16	0.13	0.13	0.074		
Benzo(k)fluoranthene	0.01	0.009	0.053	0.12	0.052	0.057	0.049	0.034		
Chrysene	0.001	0.017	0.053	0.006	0.061	0.078	0.074	0.046		
Dibenz(a,h)anthracene	1.0	0.006	0.016	0.045	0.023	0.028	0.041	0.02		
Indeno(1,2,3-cd)pyrene	0.1	0.015	0.075	0.2	0.1	0.12	0.11	0.064		
Benzo(a)pyrene Equivalents										
Contaminant	TEF	SB-22 @ 1-2 (mg/kg)	Sb-31 @ 4 (mg/kg)	SB-32 @ 1-2 (mg/kg)	SB 32 @ 4 (mg/kg)	SB-31R @4 (mg/kg)	SB-32RR @1-2 (mg/kg)	SB-32RR @4 (mg/kg)		
Benzo(a)pyrene	1.0	0.0150	0.0850	0.2300	0.1200	0.0920	0.1000	0.0620	0.0000	0.0000
Benzo(a)anthracene	0.1	0.0005	0.0057	0.0170	0.0037	0.0100	0.0004	0.0004	0.0000	0.0000
Benzo(b)fluoranthene	0.1	0.0027	0.0130	0.0330	0.0160	0.0130	0.0130	0.0074	0.0000	0.0000
Benzo(k)fluoranthene	0.01	0.0001	0.0005	0.0012	0.0005	0.0006	0.0005	0.0003	0.0000	0.0000
Chrysene	0.001	0.0000	0.0001	0.0000	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000
Dibenz(a,h)anthracene	1.0	0.0060	0.0160	0.0450	0.0230	0.0280	0.0410	0.0200	0.0000	0.0000
Indeno(1,2,3-cd)pyrene	0.1	0.0015	0.0075	0.0200	0.0100	0.0120	0.0110	0.0064	0.0000	0.0000
Total Equivalents										
Total Benzo(a)pyrene Equivalents		0.03	0.13	0.35	0.17	0.16	0.17	0.097	0.0	0.0
Comparisons to SCTLs										
Does This Sample Exceed:		SB-22 @ 1-2 (mg/kg)	Sb-31 @ 4 (mg/kg)	SB-32 @ 1-2 (mg/kg)	SB 32 @ 4 (mg/kg)	SB-31R @4 (mg/kg)	SB-32RR @1-2 (mg/kg)	SB-32RR @4 (mg/kg)		
The Residential Direct Exposure SCTL of	OK	OK	OK	EXCEEDS	EXCEEDS	EXCEEDS	EXCEEDS	OK	OK	OK
The Industrial Direct Exposure SCTL of	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
No Alternative SCTL Given	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
No Site Specific Background Given	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Benzo(a)Pyrene Equivalents Calculator Instructions

Summary Criteria for Table Entries			
Detection	Concentration Reported	Data Qualifier	Enter
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
≥ MDL but < PQL	Estimated	I	reported (estimated) value
≥ MDL but < PQL	PQL	M	1/2 reported value

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

TABLE 3A: SPLP ANALYTICAL SUMMARY - PAHs and TRPHs

Facility ID#: 8628726

Facility Name: DADE CNTY SCHOOL BD-TRANSPORTATION

See notes at end of table.

Sample		TRPHs	Naphthalene	1-methylnaphthalene	2-methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (g,h,i) perylene	Fluoranthene	Fluorene	Phenanthrene	Pyrene	Benzo (a) pyrene	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Indeno (1,2,3-cd) pyrene
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
GCTLs		5,000	14	28	28	20	210	2,100	210	280	280	210	210	0.2**	0.05 ^a	0.05 ^a	0.5	4.8	0.005 ^a	0.05 ^a
NADCs		50,000	140	280	280	200	2,100	21,000	2,100	2,800	2,800	2,100	2,100	20	5	5	50	480	0.5	5
SB-32 @ 1'-2'	12/19/2017		0.13 U	0.21 U	0.21 U	0.26 U	0.19 U	0.19 U	0.34 U	0.17 U	0.16 U	0.26 U	0.18 U	0.090 U	0.10 U	0.088 U	0.083 U	0.21 U	0.057 U	0.047 U
SB-32 @ 4'	12/19/2017		0.13 U	0.21 U	0.21 U	0.26 U	0.19 U	0.19 U	0.34 U	0.17 U	0.16 U	0.26 U	0.18 U	0.090 U	0.10 U	0.088 U	0.083 U	0.21 U	0.057 U	0.047 U
aka SB-16@4																				

Notes:

NA = Not Available.

NS = Not Sampled.

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.

^a = See the October 12, 2004 "Guidance for the Selection of Analytical Methods and for the Evaluation of Practical Quantitation Limits" to determine how to evaluate data when the CTL is lower than the PQL.

TABLE 3B: SOIL ANALYTICAL SUMMARY - MADEP EPH/VPH

Facility ID#: 13-8628726

Facility Name: DADE COUNTY SCHOOL BOARD - TRANSPORTATION

[illegible]

Notes: NA = Not Available.

NS = Not Sampled.

* = Not a health concern for this exposure scenario

TABLE 4: GROUNDWATER ELEVATION SUMMARY

Facility Name:	Dade County School Board - Transportation
Address:	7011 SW 4th Street
City, State:	Miami, FL
County:	Miami-Dade
FDEP FAC#:	13/8628726
AET Project #:	26672.00

Not Applicable = N/A
All Measurements = Feet.
No Data = " "
Free Product = FP

[illegible]

TABLE 4: GROUNDWATER ELEVATION SUMMARY

Facility Name: Dade County School Board - Transportation
Address: 7011 SW 4th Street
City, State: Miami, FL
County: Miami-Dade
FDEP FAC#: 13/8628726
AET Project #: 26672.00

Not Applicable = N/A
All Measurements = Feet.
No Data = " "
Free Product = FP

[illegible]

¹⁾ ELEVATION MEASURED DURING 1/18/11 SURVEY TO DETERMINE LOCATION OF DW-1

2) COMPLETE ELEVATION MEASUREMENTS FROM ALL INSTALLED MONITORING WELLS

TABLE 5A: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - VOCs and Metals

Facility ID#: 13/8628726

Facility Name: DADE CNTY SCHOOL BD-TRANSPORTATION

See notes at end of table.

Sample		Benzene	Toluene	Ethyl- benzene	Total Xylenes	Total VOAs	MTBE	EDB	1,2-Di- chloro- ethane	Total Arsenic	Total Cad- mium	Total Chro- mium	Total Lead
Location	Date	(µg/L)	(µg/L)	(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**	NA	20	0.02**	3**	10**	5**	100**	15**
NADCs		100	400	300	200	NA	200	2	300	100	50	1,000	150
MW-1	10/18/2017	0.52 U	0.41 U	0.34 U	1.4 U	1.4 U	0.49 U	0.0040 U	0.90 U				1.9 U
MW-2	10/17/2017	0.52 U	0.41 U	0.34 U	1.4 U	1.4 U	0.49 U						
MW-3	10/18/2017	0.52 U	0.41 U	0.34 U	1.4 U	1.4 U	0.49 U	0.0040 U	0.90 U				1.9 U
MW-4	10/17/2017	0.52 U	0.41 U	0.34 U	1.4 U	1.4 U	0.49 U						
MW-5	2/12/2015	0.10 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U		0.50 U				5.0 U
	10/17/2017	0.52 U	0.41 U	0.34 U	1.4 U	1.4 U	0.49 U						
MW-6	2/12/2015	0.10 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U		0.50 U				8.2 I
	10/17/2017	0.52 U	0.41 U	0.34 U	1.4 U	1.4 U	0.49 U						
MW-7	2/12/2015	0.10 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U		0.50 U				5.0 U
	10/18/2017	0.52 U	0.41 U	0.34 U	1.4 U	1.4 U	0.49 U	0.0040 U	0.90 U				1.9 U
MW-8	2/12/2015	0.10 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U		0.50 U				5.0 U
	10/17/2017	0.52 U	0.41 U	0.34 U	1.4 U	1.4 U	0.49 U						
MW-9	7/1/2015	0.10 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U		0.50 U				5.0 U
	9/13/2016	0.10 U	0.50 U	0.50 U	1.5 U	1.5 U	0.50 U		0.50 U				
MW-10	10/18/2017	0.52 U	0.41 U	0.34 U	1.4 U	1.4 U	0.49 U						
MW-11	7/1/2015	0.10 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U		0.50 U				5.0 U
	9/13/2016	0.10 U	0.50 U	0.50 U	1.5 U	1.5 U	0.50 U		0.50 U				
MW-12	10/17/2017	0.52 U	0.41 U	0.34 U	1.4 U	1.4 U	0.49 U						
MW-13	7/1/2015	0.10 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U		0.50 U				5.0 U
	9/13/2016	0.10 U	0.50 U	0.50 U	1.5 U	1.5 U	0.50 U		0.50 U				
MW-A	10/17/2017	0.52 U	0.41 U	0.34 U	1.4 U	1.4 U	0.49 U						
MW-A	10/18/2017	1.0 U	0.82 U	0.68 U	2.8 U	2.8 U	0.98 U						

Notes: NA = Not Available.

NS = Not Sampled.

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 5B: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - PAHs and TRPHs

Facility ID#: 13/8628726

Facility Name: DADE CNTY SCHOOL BD-TRANSPORTATION

See notes at end of table.

Sample		TRPHs	Naphthalene	1-methylnaphthalene	2-methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	Fluoranthene	Fluorene	Phenanthrene	Pyrene	Benzo(a)pyrene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Indeno(1,2,3-cd)pyrene
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
GCTLs		5,000	14	28	28	20	210	2,100	210	280	280	210	210	0.2**	0.05 ^a	0.05 ^a	0.5	4.8	0.005 ^a	0.05 ^a
NADCS		50,000	140	280	280	200	2,100	21,000	2,100	2,800	2,800	2,100	2,100	20	5	5	50	480	0.5	5
MW-1	10/18/2017	770	0.18 I	0.27 I	0.21 U	0.26 U	0.19 U	0.19 U	0.34 U	0.17 U	0.16 U	0.26 U	0.18 U	0.090 U	0.10 U	0.088 U	0.083 U	0.21 U	0.057 U	0.047 U
MW-2	10/17/2017	2000	0.15 I	0.21 U	0.21 U	0.26 U	0.19 U	0.19 U	0.34 U	0.17 U	0.16 U	0.26 I	0.22 I	0.090 U	0.10 U	0.088 U	0.083 U	0.21 U	0.057 U	0.047 U
MW-3	10/18/2017	76 U	0.13 U	0.21 U	0.21 U	0.26 U	0.19 U	0.19 U	0.34 U	0.17 U	0.16 U	0.26 U	0.18 U	0.090 U	0.10 U	0.088 U	0.083 U	0.21 U	0.057 U	0.047 U
MW-4	10/17/2017	76 U	0.13 U	0.21 U	0.21 U	0.26 U	0.19 U	0.19 U	0.34 U	0.17 U	0.16 U	0.26 U	0.18 U	0.090 U	0.10 U	0.088 U	0.083 U	0.21 U	0.057 U	0.047 U
MW-5	2/12/2015	0.063 U	1.0 U	1.0 U	1.0 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
	10/17/2017	76 U	0.13 U	0.21 U	0.21 U	0.26 U	0.19 U	0.19 U	0.34 U	0.17 U	0.16 U	0.26 U	0.18 U	0.090 U	0.10 U	0.088 U	0.083 U	0.21 U	0.057 U	0.047 U
MW-6	2/12/2015	0.063 U	1.0 U	1.0 U	1.0 U	0.071 I	0.025 U	0.1	0.025 U	0.18	0.16	0.12	0.15	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
	10/17/2017	4500	0.13 U	0.25 I	0.21 U	0.57 I	0.19 U	1.5 I	1.2 I	4.8	1.6 I	1.9 I	4.7	1.5	0.66	2.7	1	2.1	0.25	1.3
MW-7	2/12/2015	0.064 U	1.0 U	1.0 U	1.0 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
	10/18/2017	76 U	0.13 U	0.21 U	0.21 U	0.26 U	0.19 U	0.19 U	0.34 U	0.17 U	0.16 U	0.26 U	0.18 U	0.090 U	0.10 U	0.088 U	0.083 U	0.21 U	0.057 U	0.047 U
MW-8	2/12/2015	0.078 I	1.0 U	1.0 U	1.0 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
	10/17/2017	76 U	0.13 U	0.21 U	0.21 U	0.26 U	0.19 U	0.19 U	0.34 U	0.17 U	0.16 U	0.26 U	0.18 U	0.090 U	0.10 U	0.088 U	0.083 U	0.21 U	0.057 U	0.047 U
MW-9	7/1/2015	0.49	1.0 U	1.0 U	1.0 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
	9/13/2016	1.6	1.0 U	1.0 U	1.0 U	0.17 I	0.025 U	0.033 I	0.028 U	0.025 U	0.095 I	0.050 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
	10/18/2017	820	0.13 U	0.21 U	0.21 U	0.26 U	0.19 U	0.19 U	0.34 U	0.17 U	0.16 U	0.26 U	0.18 U	0.090 U	0.10 U	0.088 U	0.083 U	0.21 U	0.057 U	0.047 U
MW-10	7/1/2015	1.6	1.2 I	13.8	16.7	0.58	0.025 U	0.025 U	0.025 U	0.085 I	1.7	0.36	0.036 I	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
	9/13/2016	2.4	1.1 I	2.7	1.9 I	0.53	0.025 U	0.071 I	0.028 U	0.052 I	0.96	0.62	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
	10/17/2017	780	0.49 I	1.8 I	0.55 I	0.69 I	0.19 U	0.19 U	0.34 U	0.23 I	1.1 I	0.55 I	0.26 I	0.090 U	0.10 U	0.088 U	0.083 U	0.21 U	0.057 U	0.047 U
	10/31/2017	1100	0.57 I	2.3	0.89 I	0.60 I	0.19 U	0.19 U	0.34 U	0.17 U	1.3 I	0.26 U	0.18 U	0.090 U	0.10 U	0.088 U	0.083 U	0.21 U	0.057 U	0.047 U
MW-11	7/6/2015	1.2	4.8	17.5	20.9	0.63	0.025 U	0.025 U	0.025 U	0.025 U	2.1	1.2	0.045 I	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
	9/13/2016	2.9	1.3 I	6.8	6.1	0.068	0.025 U	0.051 I	0.028 U	0.025 U	0.84	0.48 I	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
	10/17/2017	1600	0.86 I	3.1	2.6	1.1 I	0.24 I	0.19 U	0.34 U	0.19 I	2.1	1.4 I	0.27 I	0.090 U	0.10 U	0.088 U	0.083 U	0.21 U	0.057 U	0.047 U
	10/31/2017	8300	1.1 I	2.9	2.8	1.1 I	0.24 I	0.19 U	0.34 U	0.17 U	2.3	1.3 I	0.25 I	0.090 U	0.10 U	0.088 U	0.083 U	0.21 U	0.057 U	0.047 U
MW-12	7/1/2015	0.45	1.0 U	2.4	1.3 I	0.35	0.025 U	0.025 U	0.025 U	0.025 U	1.0	0.074 I	0.029 I	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
	9/13/2016	2.8	1.2 I	4.1	1.9 I	0.54	0.025 U	0.075 I	0.028 U	0.025 U	0.94	0.054	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
	10/17/2017	1200	0.48 I	1.1 I	0.21 U	0.53 I	0.19 U	0.19 U	0.34 U	0.17 U	0.54 I	0.26 U	0.18 U	0.090 U	0.10 U	0.088 U	0.083 U	0.21 U	0.057 U	0.047 U
	10/31/2017	1100	0.58 I	1.8 I	0.93 I	0.60 I	0.19 U	0.19 U	0.34 U	0.17 U	1.2 I	0.74 I	0.18 U	0.090 U	0.10 U	0.088 U	0.083 U	0.21 U	0.057 U	0.047 U
MW-13	7/1/2015	0.72	1.2 I	5.3	3.6	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.082 I	0.045 I	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
	9/13/2016	4.1	1.9 I	13.5	8.6	0.8	0.025 U	0.082 I	0.028 U	0.12 I	1.4	0.36 I	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
	10/17/2017	1400	1.2 I	12	7.7	0.59 I	0.19 U	0.19 U	0.34 U	0.17 U	0.87 I	0.45 I	0.18 U	0.090 U	0.10 U	0.088 U	0.083 U	0.21 U	0.057 U	0.047 U
MW-A	10/18/2017	2000	0.33 I	1.6 I	0.42 I	0.40 I	0.19 U	0.19 U	0.34 U	0.17 U	0.28 I	0.26 U	0.18 U	0.090 U	0.10 U	0.088 U	0.083 U	0.21 U	0.057 U	0.047 U

Notes: NA = Not Available.

NS = Not Sampled.

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.

^a = See the October 12, 2004 "Guidance for the Selection of Analytical Methods and for the Evaluation of Practical Quantitation Limits" to determine how to evaluate data when the CTL is lower than the PQL.

Table 6: Site Assessment Summary Worksheet

FDEP FAC ID #: 13/8628726

Does Site Qualify for LTNAM: Yes

Dominant Lithology Vadose Zone

First Lithology (USCS): SP

Second Lithology (USCS): SC

Dominant Lithology Saturated Zone

First Lithology (USCS): SP

Second Lithology (USCS): SC

Average Depth to Water: 0' - 5'

Groundwater Flow Direction: South

Recommended Technology for SRCO: Natural Attenuation

Combined Technology: Standard Excavation

Consultant SRCO Cost Estimate: \$250,001 - \$500,000

Consultant NFAC Cost Estimate: \$100,001 - \$250,000

Plume Characteristics	Groundwater	Soil
Shrinking or Stable	Yes	
On-site only	Yes	Yes
Plume <1/4 acre	Yes	Yes
Exclusion Zone Only	N/A	N/A
In FDOT ROW only	No	No
On State-Owned Land Only	N/A	N/A
Organoleptic Exceedence only (< HB CTLs)	N/A	
DE Soil Exceedences above 2'		N/A
DE Soil Exceedences from 2' to 10'		Yes
DE Soil Exceedences below 10'		N/A
Free Product	No	
Site Qualifies for LSSI NFA (any score)	N/A	N/A

DE = Direct Exposure CTLs ; HB = Health Based

Site Name: Miami-Dade County School Board - Transportation

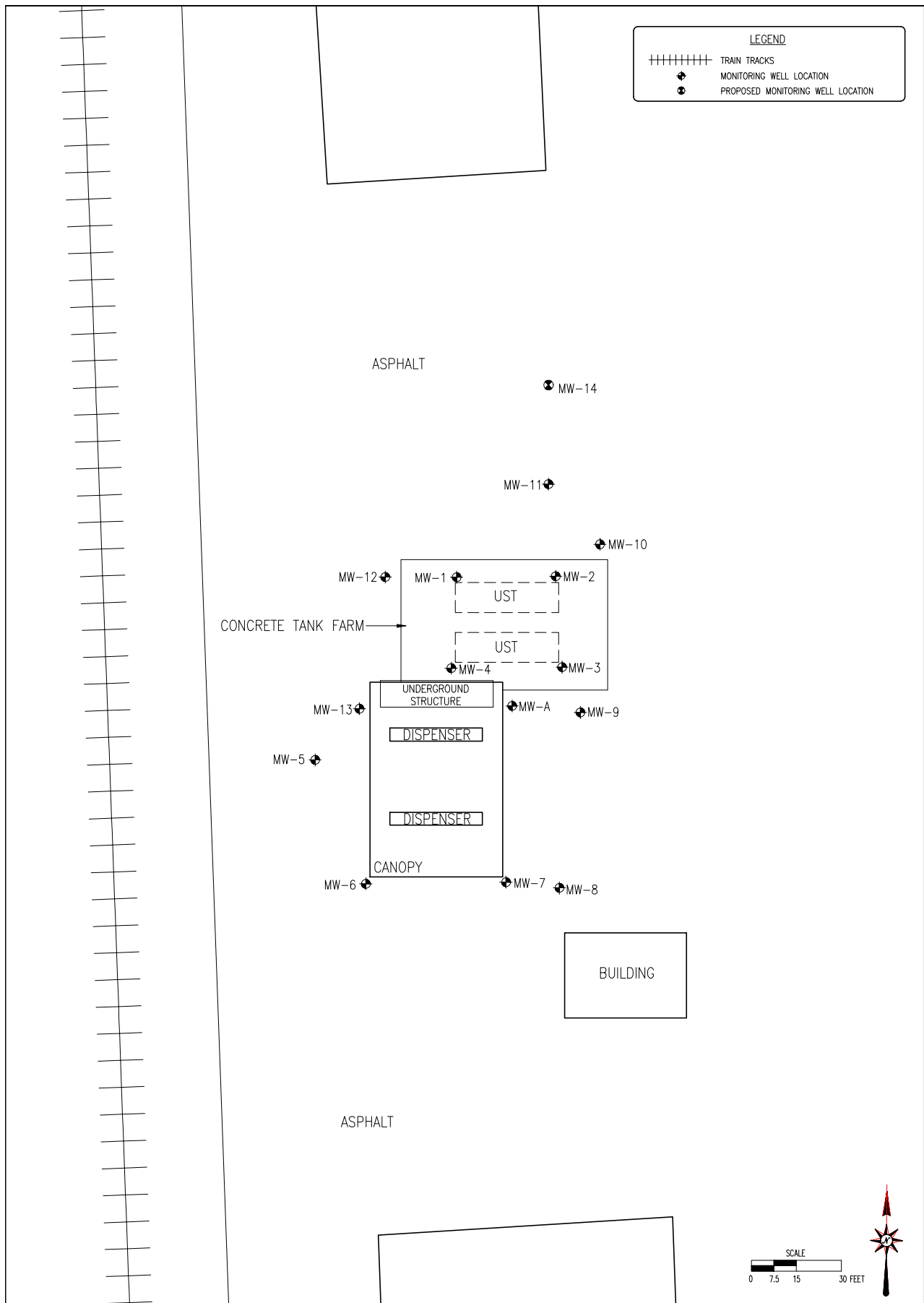
GW Contaminants per constituent	one	≤ GCTLs	≤ NADC	> NADC	Not Analyzed
Benzene		X			
Ethylbenzene		X			
Toluene		X			
Total Xylenes		X			
MTBE		X			
Naphthalene		X			
1-Methylnaphthalene		X			
2-Methylnaphthalene		X			
TRPHs			X		
EDB					X
As					X
Pb					X
Other					

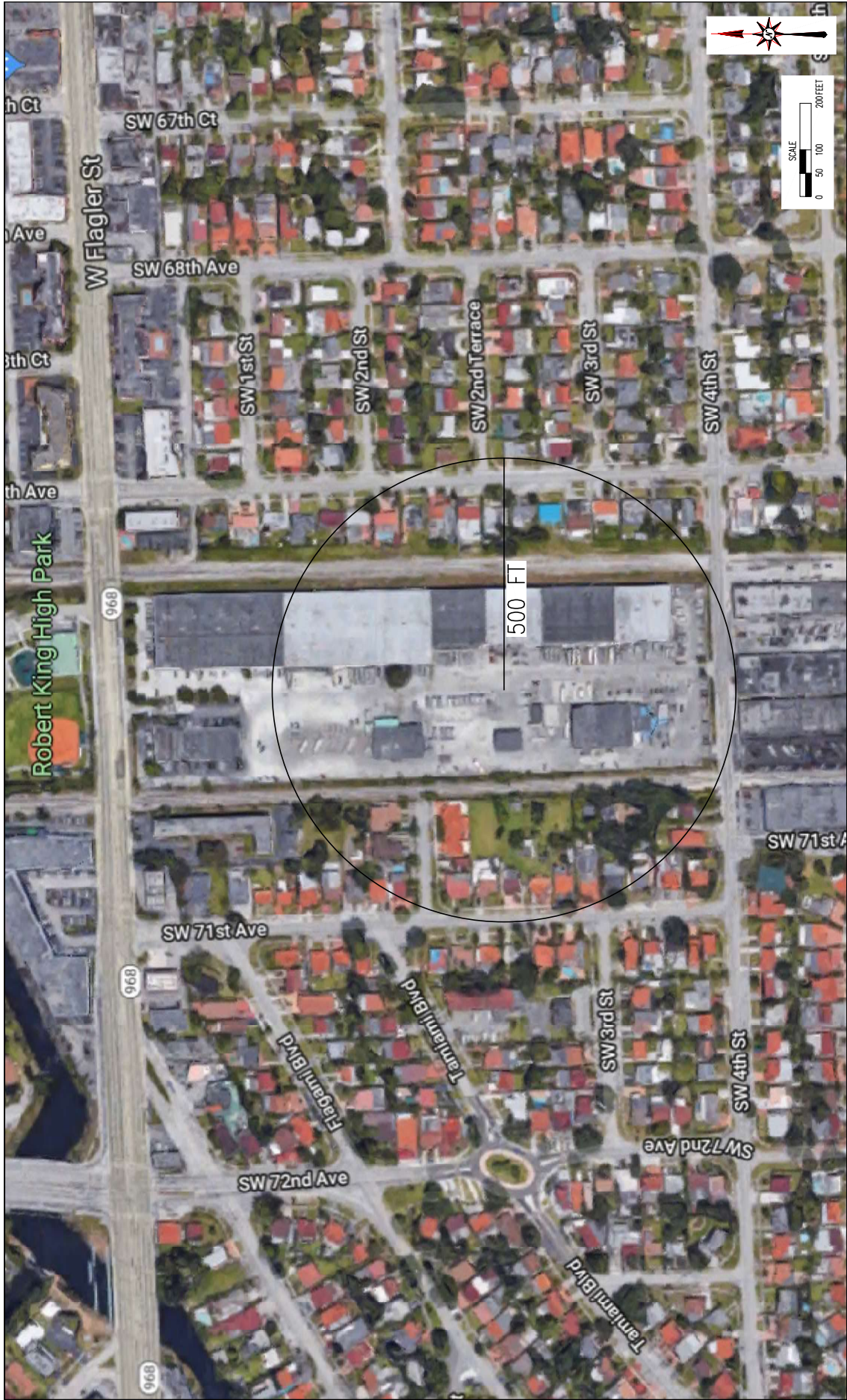
Soil Contaminants (select one unless Leachability & Direct Exposure CTLs exceeded)	No Soil Exceedences*	Exceeds Leachability	Exceeds Direct Exposure	Not Analyzed
Benzene	X			
Ethylbenzene	X			
Toluene	X			
Total Xylenes	X			
MTBE	X			
Naphthalene	X			
1-Methylnaphthalene	X			
2-Methylnaphthalene	X			
Other PAHs			X	
TRPHs			X	
As				X
Pb				X
Other				X


* Below direct exposure and leachability (or alternative SCTLs established through SPLP or fractionation)

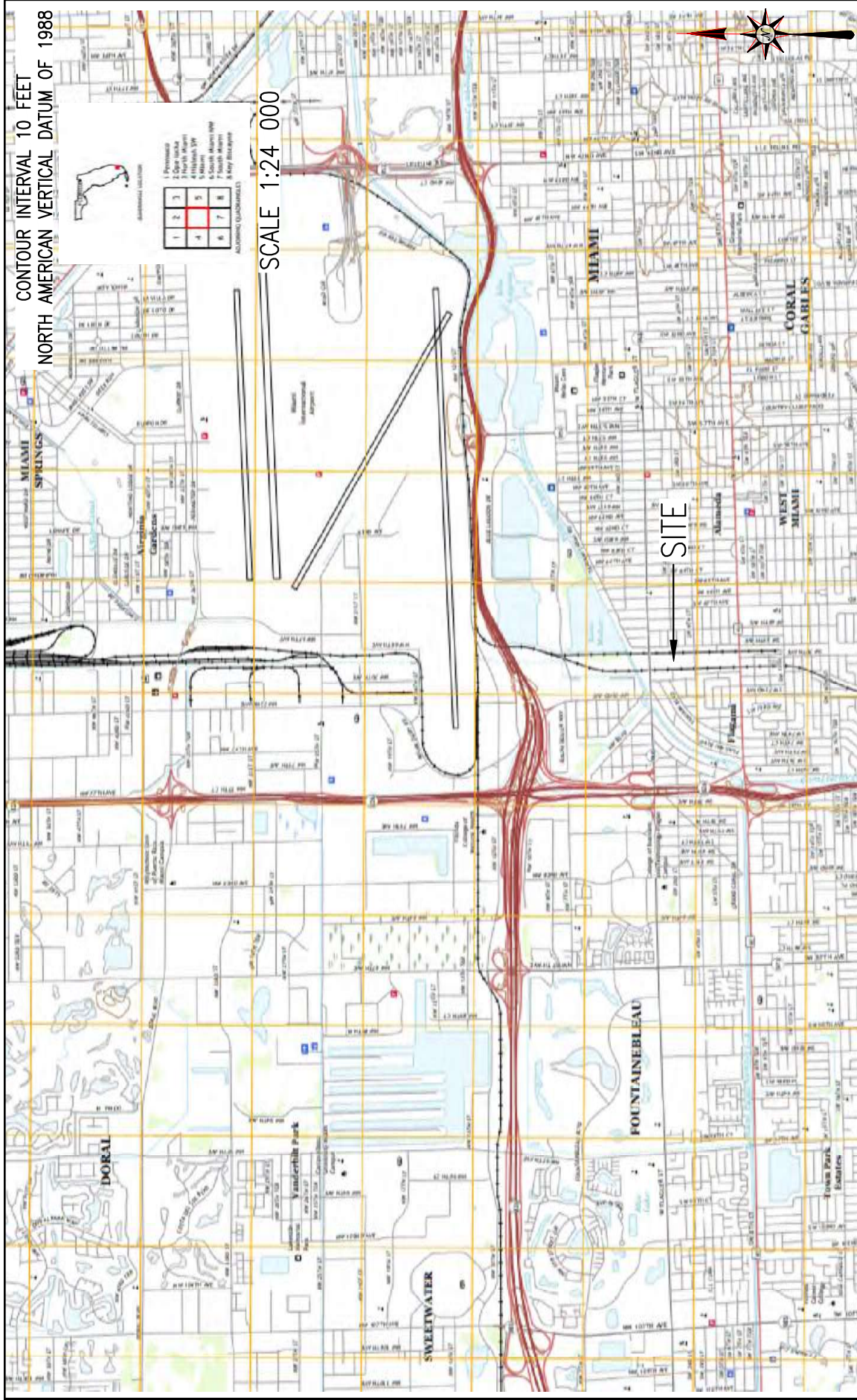
APPENDIX B

FIGURES





<p>FIGURE 1B PROJECT NO. 26672.00</p>	<p>SITE VICINITY MAP</p>	<p>DADE COUNTY SCHOOL BOARD – TRANSPORTATION 7011 SW 4TH STREET MIAMI, MIAMI-DADE COUNTY, FLORIDA FDEP FAC. ID #: 13 8628726</p>	<p> Advanced Environmental TECHNOLOGIES, LLC</p>
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DADE COUNTY SCHOOL BOARD – TRANSPORTATION
7001 SW 4TH STREET
MIAMI, MIAMI-DADE COUNTY, FLORIDA
FDEP FAC. ID NO.: 13 8628726

USGS TOPOGRAPHIC MAP

FIGURE
1C
PROJECT NO.
26672.00

