APPENDIX D

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

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

Sections: 1 2 3 4 5 6 7 8 9

Table of Contents

SGS North America Inc.

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

2

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

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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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 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	U064543.D	1	03/03/18 01:33	RV	02/26/18 16:00	OP68917	SU2816
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	0.65	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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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:	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	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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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 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	T036651.D	1	03/06/18 14:25	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	0.43	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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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:	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	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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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 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	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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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:	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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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 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	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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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:	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	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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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 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	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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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:	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	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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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:	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	B125756.D	1	02/28/18 10:37	AJ	n/a	n/a	VB5064
Run #2							

	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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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:	SW846 8260B	**Percent Solids:**	n/a
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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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:	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	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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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		
Lab Sample ID:	FA51986-7	**Date Sampled:**	02/22/18
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	LR03309.D	5	03/01/18 16:30	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)	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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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
		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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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 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	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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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:	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	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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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 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	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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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:	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	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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

PREM

SGS Accutest Southeast Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.accutest.com

FA51986

SGS ACCUTEST JOB # : PAGE_____OF_____

SGS Accutest Quote # | SKIFF #

Client / Reporting Information

Company Name: ATC Group Services
Address: 9955 NW 116th Way Suite 1
City: Miami State: FL Zip: 33178
Project Contact: D. Schwendeman Email:
Phone #: (305) 882-8200
Sampler(s) Name(s) (Printed)
Sampler 1: Leif Rodney Sampler 2:

Project Information

Project Name: Jak Service Center dba United Fuel
Street 6900 SW 8th Street
City Miami State FL
Project # 21014 30699
Fax #
Client Purchase Order #

Analytical Information

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid

SGS Accutest Sample #	Field ID / Point of Collection	Collection DATE	Collection TIME	Sampled By:	Matrix	Total # of Bottles	Container Information: Other	None	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI Water	MeOH	8260B BTEXN	8260B 3 Priority	8270C PAHs	FL-Pro TRPH	6010 Pb	504.1 EDB	LAB USE ONLY
1	MW 1	02/21/18	12:05	LR	GW	6		✓	✓			✓				✓		✓	✓			
2	MW 2	02/21/18	15:01	LR	GW	6		✓	✓			✓				✓		✓	✓			
3	MW 3	02/21/18	14:11	LR	GW	6		✓	✓			✓				✓		✓	✓			
4	MW 4	02/21/18	13:26	LR	GW	6		✓	✓			✓				✓		✓	✓			
5	MW 5	02/22/18	12:53	LR	GW	6		✓	✓			✓				✓		✓	✓			
6	MW 6	02/22/18	12:08	LR	GW	6		✓	✓			✓				✓		✓	✓			
7	MW 7	02/22/18	10:26	LR	GW	10	✓	✓	✓		✓	✓				✓	✓	✓	✓	✓	✓	
8	MW 8	02/22/18	11:26	LR	GW	6		✓	✓			✓				✓		✓	✓			
9	MW B	02/22/18	13:44	LR	GW	6		✓	✓			✓				✓		✓	✓			

Turnaround Time (Business days)

10 Day (Business) Approved By: / Date:
7 Day
5 Day
3 Day *RUSH* std
2 Day *RUSH*
1 Day *RUSH*
Other
Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1		02/23/18 6:10	2 Fed Ex	3 Fed Ex		4 02/23/18 945
5	Relinquished by/Affiliation	Date Time:	6 Received By/Affiliation	7 Relinquished By/Affiliation	Date Time:	8 Received By/Affiliation

Lab Use Only: Cooler Temperature (s) Celsius (corrected): 4.2 4.6

http://www.sgs.com/en/terms-and-conditions

Effective Date 04/24/2017

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

FA51986: Chain of Custody
Page 1 of 2

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	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☑		☐
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☐		☑	☐
2. Trip Blank listed on COC	☐		☑	☐

	W	or	S	N/A
3. Type Of TB Received	☐		☐	☑

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

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
Rev. Date 05/24/17

Technician: SHAYLAP Date: 2/23/2018 9:45:00 AM Reviewer: _____ Date: _____

FA51986: Chain of Custody
Page 2 of 2

MS 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
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

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

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

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

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

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	Q	Spike 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

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	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.

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	Q	Spike 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

6

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
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

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

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	Q	Spike ug/l	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%

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	Q	Spike 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.

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%

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%

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

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	Q	Spike 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	Q	Spike 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

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 Methods: SW846 6010C
Matrix Type: AQUEOUS 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	0.2	20
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

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 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 02/27/18

Metal	Sample ml	Final ml	FA51986-7 Raw	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	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

Sections: 1 2 3 4 5 6 7 8

Table of Contents

SGS North America Inc.

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

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 / Analyte	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.

Sample Results

Report of Analysis

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:	SW846 8260B	**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	2B8811.D	1	06/07/18 16:27	SP	n/a	n/a	V2B333
Run #2							

	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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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:	SW846 8270D BY SIM SW846 3546	**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	8H03229.D	1	06/11/18 14:53	FS	06/11/18 08:38	OP70433	S8H126
Run #2							

	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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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:	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 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		
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		

	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							

	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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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 8260B	**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	2B8812.D	1	06/07/18 16:51	SP	n/a	n/a	V2B333
Run #2							

	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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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 SW846 3546	**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	8H03181.D	1	06/07/18 21:17	FS	06/07/18 09:00	OP70388	S8H124
Run #2							

	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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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		

	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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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 8260B	**Percent Solids:**	85.6
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	3C1154.D	1	06/07/18 19:16	SP	n/a	n/a	V3C48
Run #2							

	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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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 SW846 3546	**Percent Solids:**	85.6
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	8H03182.D	1	06/07/18 21:40	FS	06/07/18 09:00	OP70388	S8H124
Run #2							

	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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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		

	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		

	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							

	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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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 8260B	**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	2B8814.D	1	06/07/18 17:38	SP	n/a	n/a	V2B333
Run #2							

	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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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 SW846 3546	**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	8H03183.D	1	06/07/18 22:03	FS	06/07/18 09:00	OP70388	S8H124
Run #2							

	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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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 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:	FLORIDA-PRO SW846 3550C	**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	YR18459.D	1	06/11/18 19:26	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)	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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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 8260B	**Percent Solids:**	90.6
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	2B8815.D	1	06/07/18 18:02	SP	n/a	n/a	V2B333
Run #2							

	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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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 SW846 3546	**Percent Solids:**	90.6
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	8H03184.D	1	06/07/18 22:27	FS	06/07/18 09:00	OP70388	S8H124
Run #2							

	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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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		

	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		

	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							

	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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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
		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

SGS 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
www.sgs.com

FA54762

SGS - ORLANDO JOB # : PAGE_____OF_____

SGS - ORLANDO Quote # | SKIFF #

Client / Reporting Information

Company Name: ATC Group Services
Address: 9955 NW 116th
City: Miami State: FL Zip:
Project Contact: Email: Dwight.Schwendeman@atcgs.com
Phone #: (305) 882-8200
Sampler(s) Name(s) (Printed)
Sampler 1: Leif Rodney Sampler 2:

Project Information

Project Name: Jax Service Center
Street: 6900 SW 8th St
City: Miami State: FL
Project #
Fax #
Client Purchase Order #

Analytical Information

SGS Orlando Sample #	Field ID / Point of Collection	DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZNAc	DI WATER	MeOH	8260B (BTEXM)	8270C (PAHs)	FL-Pro (TRPH)	SPLP Extraction only	TRPH Fractionation	6010 Lead
SB 3	1	06/05/18	09:25	LR	SO	6									✓	X	X	X			
SB 4	2		09:55													X	X	X			
SB 2	3		10:20													X	X	X			
SB 1	4		10:40													X	X	X			
SB 5	5		11:05													X	X	X		X	

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid

LAB USE ONLY

Turnaround Time (Business days)

10 Day (Business) Approved By: / Date:
7 Day
5 Day
3 Day *RUSH*
2 Day *RUSH*
1 Day *RUSH*
Other
Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

☐ COMMERCIAL "A" (RESULTS ONLY)
☐ COMMERCIAL "B" (RESULTS PLUS QC)
☐ REDT1 (EPA LEVEL 3)
☐ FULLT1 (EPA LEVEL 4)
☒ EDD'S FDEP

Comments / Remarks

Archive Pending Results

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1	LR Rodney	06/05/18 15:30	2 Fed Ex	3 Fed Ex		4 06/06/18 900
5	Relinquished by/Affiliation	Date Time:	6 Received By/Affiliation	7 Relinquished By/Affiliation	Date Time:	8 Received By/Affiliation

Lab Use Only : Cooler Temperature (s) Celsius (corrected): 1.6

http://www.sgs.com/en/terms-and-conditions

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

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	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☑		☐
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☐		☐	☑
2. Trip Blank listed on COC	☐		☐	☑

	W	or	S	N/A
3. Type Of TB Received	☐		☐	☑

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

Misc. Information

Number of Encores: 25-Gram 5 5-Gram _____ Number of 5035 Field Kits: 5 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

SM001
Rev. Date 05/24/17

Technician: SHAYLAP Date: 6/6/2018 9:00:00 AM Reviewer: BR Date: 6/6/2018

MS 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: 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

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

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

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

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	Q	Spike 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

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	Q	Spike 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

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

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

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

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

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

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	Q	Spike 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

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	Q	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

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	Q	Spike 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 Methods: SW846 6010C
Matrix Type: SOLID 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 Methods: SW846 6010C
Matrix Type: SOLID 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

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 Methods: SW846 6010C
Matrix Type: SOLID Units: ug/l

Prep Date: 06/08/18

Metal	Sample ml	Final ml	FA54762-5 Raw	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), AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

Sections:

1 2 3 4 5 6 7 8

Table of Contents

SGS North America Inc.

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 Date	Time	By	Received	Matrix Code	Type	Client Sample ID
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 / Analyte	Client Sample ID	Result/ 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

Sample Results

Report of Analysis

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:	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	O54087.D	1	06/14/18 10:16	SP	n/a	n/a	VO2040
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	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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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:	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	T038518.D	1	06/13/18 05:42	RV	06/11/18 17:00	OP70444	ST1407
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	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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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 I = Result > = MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range 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
		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

SGS 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
www.sgs.com

SGS - ORLANDO JOB # : FA54891 PAGE 1 OF 1

SGS - ORLANDO Quote # | SKIFF #

Client / Reporting Information

Company Name: ATC Group Services
Address: 9955 NW 116th Way Suite 1
City: Miami State: FL Zip: 33178
Project Contact: Dwight.Schwendeman@atcgs.com Email:
Phone #: (305) 882-8200
Sampler(s) Name(s) (Printed)
Sampler 1: Leif Rodie Sampler 2:

Project Information

Project Name: JAK Service Center Dbn
Street: 6900 SW 8th St
City: Miami State: FL
Project #: Z1014306.89
Fax #:
Client Purchase Order #:

Analytical Information

SGS Orlando Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZN4	DI WATER	MEOH	8260 BTXN	8270 PAH	PB	FL PRO	LAB USE ONLY
(1)	MW 9	06/07/18		LR	GW	8		✓	✓			✓	✓			✓	✓	✓	✓	

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid

Turnaround Time (Business days)

- 10 Day (Business) — Approved By: / Date:
- 7 Day
- 5 Day
- 3 Day *RUSH*
- 2 Day *RUSH*
- 1 Day *RUSH*
- Other

Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☐ COMMERCIAL "B" (RESULTS PLUS QC)
- ☐ REDT1 (EPA LEVEL 3)
- ☐ FULLT1 (EPA LEVEL 4)
- ☐ EDD'S

Comments / Remarks

945

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by/Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1	L Rodie / ATC	06/08/18	2 Fed Ex	3 Fed Ex		4 06/09/18
5	Relinquished by/Affiliation	Date Time:	6 Received By/Affiliation	7 Relinquished By/Affiliation	Date Time:	8 Received By/Affiliation

Lab Use Only : Cooler Temperature (s) Celsius (corrected): 3.0

http://www.sgs.com/en/terms-and-conditions

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

FA54891: Chain of Custody
Page 1 of 2

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	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☑		☐
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☐		☑	☐
2. Trip Blank listed on COC	☐		☑	☐

	W	or	S	N/A
3. Type Of TB Received	☐		☐	☑

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

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
Rev. Date 05/24/17

Technician: SHAYLAP Date: 6/9/2018 9:45:00 AM Reviewer: SP Date: 6/9/2018

FA54891: Chain of Custody
Page 2 of 2

MS 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: 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

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	Q	Spike ug/l	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

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-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

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

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	Q	Spike ug/l	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

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%

Blank Spike 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-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	Q	Spike 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 Methods: SW846 6010C
Matrix Type: AQUEOUS 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	2.2	20
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

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 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 06/13/18

Metal	FA54763-40 Original	SDL 1:5	%DIF	QC 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 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 06/13/18

Metal	Sample ml	Final ml	FA54763-40 Raw	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

BORING LOG

Page 1 of _____

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-1	13-59-14683	13/8503663

Site Name:	Borehole Start Date: 06/05/18	Borehole Start Time: 1025 ☑ AM ☐ PM
Jak Service Center dba United Fuel	End Date: 06/05/18	End Time: 1040 ☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
ATC Group Services LLC	Dwight W. Schwendeman	Leif Rodney

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
JAEE Environmental Services	6	2	6

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
HA/DP	~6		MiniRae 3000 ☐ FID ☑

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☑ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA		12				0.5	1	Concrete, Fill - Limestone Sand, medium to fine grain, Greyish brown treding to pale brown		D	
HA		12					2		sw	D	
HA		12				<0.1	3			D	
HA		12					4	Limestone, Very light grey to white		D	
DP		12				<0.1	5			M	Lab sample
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:	Permit Number:	FDEP Facility Identification Number:
SB-2	13-59-14683	13/8503663

Site Name:	Borehole Start Date: 06/05/18	Borehole Start Time: 1010 ☑ AM ☐ PM
Jak Service Center dba United Fuel	End Date: 06/05/18	End Time: 1020 ☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
ATC Group Services LLC	Dwight W. Schwendeman	Leif Rodney

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
JAEE Environmental Services	6	2	6

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
HA/DP	~6		MiniRae 3000 ☐ FID ☑

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA		12				<0.1	1	Concrete, Fill - Limestone Sand, medium to fine grain, Pale brown treding to light grey		D	
HA		12					2		SW	D	Lab sample
HA		12				<0.1	3			D	
HA		12					4	Limestone, Very light grey to white		D	
DP		12				<0.1	5			M	
DP		8					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:	Permit Number:	FDEP Facility Identification Number:
SB-3	13-59-14683	13/8503663

Site Name:	Borehole Start Date: 06/05/18	Borehole Start Time: 0925 ☑ AM ☐ PM
Jak Service Center dba United Fuel	End Date: 06/05/18	End Time: 0935 ☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
ATC Group Services LLC	Dwight W. Schwendeman	Leif Rodney

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
JAEE Environmental Services	6	2	6

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
HA/DP	~6		MiniRae 3000 ☐ FID ☑

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA		12				0.5	1	Concrete, Fill - Limestone mix with P-rock		D	
HA		12					2			D	Lab sample
HA		12				<0.1	3	Fill - Limestone		D	
HA		12					4			D	
HA		12				<0.1	5	Sand, medium to fine grain, grey to light grey	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:	Permit Number:	FDEP Facility Identification Number:
SB-4	13-59-14683	13/8503663

Site Name:	Borehole Start Date: 06/05/18	Borehole Start Time: 0945 ☑ AM ☐ PM
Jak Service Center dba United Fuel	End Date: 06/05/18	End Time: 0955 ☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
ATC Group Services LLC	Dwight W. Schwendeman	Leif Rodney

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
JAEE Environmental Services	6	2	6

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
HA/DP	~6		MiniRae 3000 ☐ FID ☑

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA		12				<0.1	1	Concrete, Fill - Limestone Sand, medium to fine grain, pale brown		D	
HA		12					2		SW	D	
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:	Permit Number:	FDEP Facility Identification Number:
SB-5	13-59-14683	13/8503663

Site Name:	Borehole Start Date: 06/05/18	Borehole Start Time: 1100 ☑ AM ☐ PM
Jak Service Center dba United Fuel	End Date: 06/05/18	End Time: 1110 ☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
ATC Group Services LLC	Dwight W. Schwendeman	Leif Rodney

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
JAEE Environmental Services	2	2	13

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
HA/DP	~6		MiniRae 3000 ☐ FID ☑

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☑ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA		12				<0.1	1	Asphalt/Concrete, Fill - Limestone Sand with Limestone fragments		D	
HA		12					2	Sand, medium to fine grain, brown trend to light brown	SW	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

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-9	Jak Service Center dba United Fuel	13/8503663	06/05/2018

Well Location and Type (check appropriate boxes):
- [x] On-Site
- [ ] Right-of-Way
- [ ] Off-Site Private Property
- [ ] Above Grade (AG)
- [x] Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose:
- [ ] Perched Monitoring
- [x] Shallow (Water-Table) Monitoring
- [ ] Intermediate or Deep Monitoring
- [ ] Remediation or Other (describe)

Well Install Method: Direct Push

Surface Casing Install Method: NA

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
13	13.00	3.25	8	2 feet by 2 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
1.5 - SCH 40 PVC	[x] Flush-Threaded [ ] Other (describe)	3 feet from 0 feet to 3 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
1.5 - SCH 40 PVC	0.010-inch	10 feet from 10 feet to 13 feet

1st Surface Casing Material:	1st Surface Casing I.D. (inches):	1st Surface Casing Length:
also check: [ ] Permanent [ ] Temporary		feet from feet to feet

2nd Surface Casing Material:	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length:
also check: [ ] Permanent [ ] Temporary		feet from feet to feet

3rd Surface Casing Material:	3rd Surface Casing I.D. (inches):	3rd Surface Casing Length:
also check: [ ] Permanent [ ] Temporary		feet from feet to feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
20/30 silica sand	[x] Yes [ ] No	11 feet from 2 feet to 13 feet

Filter Pack Seal Material and Size:	Filter Pack Seal Length:
Sand 30/65	1 feet from 1 feet to 2 feet

Surface Seal Material:	Surface Seal Length:
Portland Cement Grout	5 feet from 0.5 feet to 1 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):
06/06/18	[ ] Surge/Pum [x] Pump [ ] Compressed Air [ ] Other (describe)

Development Pump Type (check):	Depth to Groundwater (before developing in feet):
[ ] Centrifugal [x] Peristaltic [ ] Submersible [ ] Other (describe)	6.15

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
~0.50	~0.9	[ ] Yes [x] No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
[x] Continuous [ ] Intermittent	~14	27	[ ] Yes [x] No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
light browninish white - none	none - none

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

STATE OF FLORIDA WELL COMPLETION REPORT

☐Southwest
☐Northwest
☐St. Johns River
☐South Florida
☐Suwannee River
☐DEP
☐Delegated Authority (If Applicable) _____

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

Date Stamp

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
____Bottled Water Supply
____Public Water Supply (Limited Use/DOH)
____Public Water Supply (Community or Non-Community/DEP)
____Class I Injection
____Landscape Irrigation
____Recreation Area Irrigation
____Agricultural Irrigation
____Livestock
____Nursery Irrigation
____Commercial/Industrial
____Golf Course Irrigation
✔Site Investigation
✔Monitoring
____Test
____Earth-Coupled Geothermal
____HVAC Supply
____HVAC Return

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): ✔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.

23. Chemical Analysis (When Required):
Iron _____ppm Sulfate _____ppm Chloride _____ppm
____Laboratory Test ____Field Test Kit

24. Water Well Contractor:
*Contractor Name Erin Fromm *License Number 11313 E-mail Address Jaee@bellsouth.net
*Contractor's Signature _____ (I certify that the information provided in this report is accurate and true.) *Driller's Name (Print or Type) w smitherman

*Permit No. 13-59-14683

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
2379 BROAD STREET, BROOKSVILLE, FL 34604-6899
PHONE: (352) 796-7211 or (800) 423-1476
WWW.SWFWMD.STATE.FL.US

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
4049 REID STREET, PALATKA, FL 32178-1429
PHONE: (386) 329-4500
WWW.SJRWMD.COM

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT
152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712
(U.S. Highway 90, 10 miles west of Tallahassee)
PHONE: (850) 539-5999
WWW.NWFWMD.STATE.FL.US

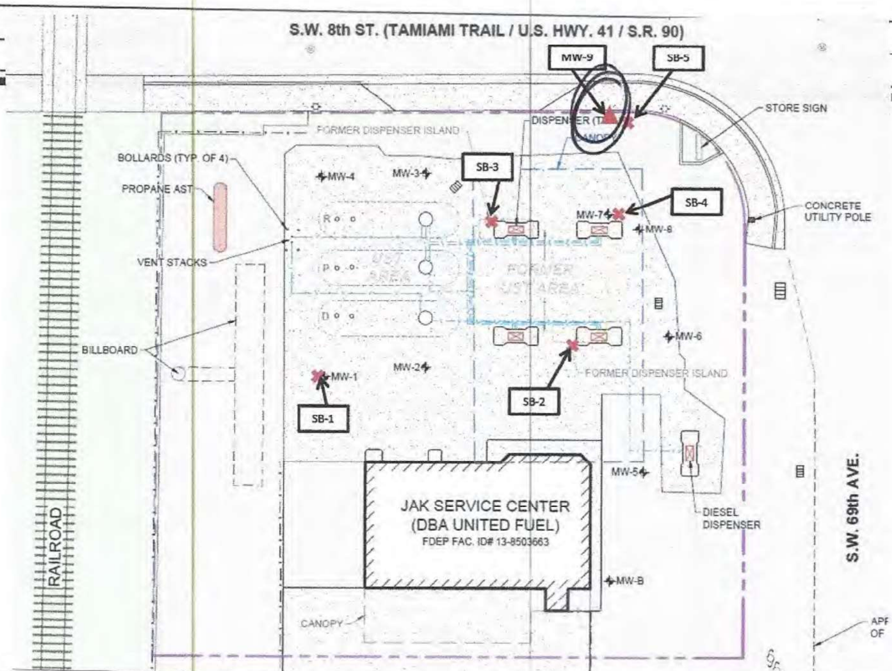
SOUTH FLORIDA WATER MANAGEMENT DISTRICT
P.O. BOX 24680
3301 GUN CLUB ROAD
WEST PALM BEACH, FL 33416-4680
PHONE: (561) 686-8800
WWW.SFWMD.GOV

SUWANNEE RIVER WATER MANAGEMENT DISTRICT
9225 CR 49
LIVE OAK, FL 32060
PHONE: (386) 362-1001 or (800) 226-1066 (Florida only)
WWW.MYSUWANNEERIVER.COM

***DRILL CUTTINGS LOG** (Examine cuttings every 20 ft. or at formation changes. Note cavities and depth to producing zone. Grain Size: F=Fine, M=Medium, and C=Coarse)

From (ft.)	To (ft.)	Color	Grain Size (F, M, C)	Material
0	15	tan	m/f	sand

Comments:



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 1	SAMPLE ID: MW 1
	DATE: 02/21/2018

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 9.1 feet to 19.1 feet	STATIC DEPTH TO WATER (feet): 6.70	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)
= (19.1 feet – 6.70 feet) X 0.16 gallons/foot = 1.98 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: 11:25	PURGING ENDED AT: 12:05	TOTAL VOLUME PURGED (gallons): 5.86

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: Leif Rodneey / ATC	SAMPLER(S) SIGNATURE(S): Leif Rodneey	SAMPLING INITIATED AT: 12:05	SAMPLING ENDED AT: 12:15
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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW 1	1	AG	1 L	H_2SO_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; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

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

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

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

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Jak Service Center dba United Fuel	SITE LOCATION: 6900 SW 8th St, Miami, FL
WELL NO: MW 2	SAMPLE ID: MW 2
	DATE: 02/21/2018

PURGING DATA

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

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)
14:35	1.0	1.0	0.2	6.77	7.20	26.86	471	0.85	13.3	clear	none
14:40	1.0	2.0	0.2	6.77	6.87	26.85	470	0.30	5.45	clear	none
14:50	2.0	4.0	0.2	6.77	6.77	27.10	471	0.26	1.81	clear	none
14:55	1.0	5.0	0.2	6.77	6.75	26.92	470	0.25	1.13	Clear	none
15:00	1.0	6.0	0.2	6.77	6.73	26.90	470	0.24	1.09	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):	SAMPLING INITIATED AT: 15:01 LR	SAMPLING ENDED AT: 15:14 LR
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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW 2	1	AG	1 L	H_2SO_4	–	<2	FL-PRO 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)

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

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

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

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Jak Service Center dba United Fuel	SITE LOCATION: 6900 SW 8th St, Miami, FL
WELL NO: MW 3	SAMPLE ID: MW 3	DATE: 02/21/2018

PURGING DATA

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 feet – 6.69 feet) X 0.16 gallons/foot = 0.85 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 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" = 0.0026; 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):	SAMPLING INITIATED AT: 14:11	SAMPLING ENDED AT: 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 3	1	AG	1 L	H_2SO_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; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: 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

PURGING DATA

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8.00	PURGING INITIATED AT: 12:55	PURGING ENDED AT: 13:26	TOTAL VOLUME PURGED (gallons): 6.1

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)
13:00	1.01	1.00	0.20	6.85	6.99	27.06	396	1.29	6.28	Clear	none
13:05	1.00	2.00	0.20	6.85	6.85	26.89	400	0.69	3.22	Clear	none
13:15	2.00	4.00	0.20	6.85	6.66	26.87	409	0.50	1.20	Clear	none
13:25	2.00	6.00	0.20	6.85	6.47	26.46	409	0.43	1.20	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):	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_2SO_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; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

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

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

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

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Jak Service Center dba United Fuel	SITE LOCATION: 6900 SW 8th St, Miami, FL	
WELL NO: MW 5	SAMPLE ID: MW 5	DATE: 02/21/2018

PURGING DATA

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

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)
12:37	1.00	~~0.71~~ 1.0	0.20	6.50	7.03	28.03	213	0.94	3.59	clear	none
12:42	1.00	2.00	0.20	6.50	7.14	28.10	214	0.76	2.88	clear	none
12:47	1.00	3.00	0.20	6.50	7.18	28.11	217	0.65	2.45	clear	none
12:52	1.00	4.00	0.20	6.50	7.22	28.18	218	0.39	2.02	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):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW 5	1	AG	1L	H_2SO_4	—	<2	EL Pro TRPH	APP	200
MW 5	2	AG	250mL	None	—	7.22	8270 C	APP	200
MW 5	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:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Jak Service Center dba United Fuel	SITE LOCATION: 6900 SW 8th St, Miami, FL	
WELL NO: MW 6	SAMPLE ID: MW 6	DATE: 02/21/2018

PURGING DATA

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

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)
11:52	1.0	1.0	0.2	5.90	7.16	26.83	332	1.93	2.79	clear	none
12:02	2.0	3.0	0.2	5.90	7.04	27.72	325	1.00	1.54	clear	none
12:07	1.0	4.0	0.2	5.90	7.01	27.72	324	0.83	1.14	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):	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 (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW 6	1	AG	1 L	H_2SO_4	—	<2	FL-Pro TRPH	APP	200
MW 6	2	AG	250mL	None	—	6.50	8270 C	APP	200
MW 6	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:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Jak Service Center dba United Fuel	SITE LOCATION: 6900 SW 8th St, Miami, FL
WELL NO: MW 7	SAMPLE ID: MW 7
DATE: 02/21/2018	

PURGING DATA

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8.50	PURGING INITIATED AT: 10:09	PURGING ENDED AT: 10:26	TOTAL VOLUME PURGED (gallons): 3.25

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)
10:14	1.0	1.0	0.2	6.67	6.22	26.89	490	0.53	5.52	clear	sl pet
10:20	1.2	2.2	0.2	6.67	6.66	27.06	444	0.43	9.06	clear	sl pet
10:25	1.0	3.2	0.2	6.67	6.71	27.02	428	0.37	6.31	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: Leif Rodney / ATC	SAMPLER(S) SIGNATURE(S):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW 7	1	AG	1L	H_2SO_4	—	<2	FL-Pro TRPH	APP	200
MW 7	2	AG	250mL	None	—	6.71	8270 C	APP	200
MW 7	1	HDPE	250mL	HNO_3	—	<2		APP	200
MW 7	3	CG	100mL	Sodium Thiosulfate	—	<2		APP	100
MW 7	3	GG	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:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Jak Service Center dba United Fuel	SITE LOCATION: 6900 SW 8th St, Miami, FL
WELL NO: MW 8	SAMPLE ID: MW8
	DATE: 02/21/2018

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 2.7 feet to 12.7 feet	STATIC DEPTH TO WATER (feet): 6.06	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)
= (12.7 feet – 6.06 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)
NA = gallons + (NA gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
~~8.5~~ 8.0	~~8.5~~ 8.0	11:00	11:26	4.60

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)
11:05	1.0	1.0	0.2	6.19	6.83	27.64	364	2.53	38.9	cloudy	none
11:10	1.0	2.0	0.2	6.19	7.00	27.62	364	1.62	20.9	sl cloudy	none
11:20	2.0	4.0	0.2	6.19	7.02	27.66	366	0.96	11.07	clear	none
11:25	~~1.0~~ 0.5	~~5.0~~ 4.5	0.2	6.19	7.02	27.70	360	0.91	7.28	clear	none

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

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Leif Rodney / ATC		11:26	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW 8	1	AG	1L	H_2SO_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:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Jak Service Center dba United Fuel	SITE LOCATION: 6900 SW 8th St, Miami, FL	
WELL NO: MW B	SAMPLE ID: 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 feet – 6.89 feet) X 0.16 gallons/foot = 1.23 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 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):	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) 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	1L	H_2SO_4	–	<2	FL-Pro TRPH	APP	200
MW B	2	AG	250mL	None	–	7.13	8270 C	APP	200
MW B	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:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME:	Jax 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		

PURGING DATA

WELL DIAMETER (inches):	1.50	TUBING DIAMETER (inches):	0.25	WELL SCREEN INTERVAL DEPTH:	2.7 feet to 12.7 feet	STATIC DEPTH TO WATER (feet):	6.33	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)
= (12.7 feet – 6.33 feet) X 0.09 gallons/foot = 0.57 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):	8.30	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	8.30	PURGING INITIATED AT:	10:56	PURGING ENDED AT:	11:17	TOTAL VOLUME PURGED (gallons):	2.10

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)	ORP
11:01	0.50	0.50	0.10	6.40	5.94	29.80	197	0.58	65.6	cloudy	none	40.8
11:06	1.00	0.50	0.10	6.40	5.11	28.72	198	0.47	52.9	cloudy	none	20.0
11:11	1.50	0.50	0.10	6.40	4.25	28.87	198	0.47	33.7	cloudy	none	0.6
11:16	2.00	0.50	0.10	6.40	5.34	28.78	198	0.48	21.3	sl cloudy	none	-25.9

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

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	Zeif Rodney / ATC	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	11:18	SAMPLING ENDED AT:	11:26
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 9	1	HDPE	250mL	HNO3	—	<2	PB	APP	100 mL/min
MW 9	2	AG	250mL	None	—	5.39	8270 PAH	APP	|
MW9	3	CG	40mL	HCL	—	<2	8260 BTXM	APP	|
MW 9	1	AG	1L	H_2SO_4	—	<2	FL PRO	APP	|

REMARKS:

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

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

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
FT 1000 General Field Testing and Measurement

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

YSI INSTRUMENT (MAKE/MODEL#) 556 **INSTRUMENT #** 05B1278AH

LaMotte INSTRUMENT (MAKE/MODEL#) 2020wc/26862 **INSTRUMENT #** 2580-3712

OVA/PID INSTRUMENT (MAKE/MODEL#) _____ **INSTRUMENT #** _____

PARAMETER: *[check applicable standards]*

☑ TEMPERATURE ☑ CONDUCTIVITY ☐ SALINITY ☑ pH ☐ ORP

☑ TURBIDITY ☐ OVA ☑ DO ☐ OTHER _____

STANDARDS: *[Specify the origin of the standards, Lot #, Bottle # and the date the standards expire, as applicable)*

Standard A (Temp.) Ambient Standard B (pH 4.01 +/- 0.2) ~~8GA190~~ Jan/20 PINE

Standard C (pH 7.00 +/- 0.2) 7GL695 Dec/19 PINE Standard D (pH 10.00 +/- 0.2) 7GL171 Dec/19 PINE

Standard E (Cond. 500uS +/- 5%) 8GC100Z Mar/19 PINE Standard F (Cond. 1000uS +/- 5%) _____

Standard G (Turb. 1.0 NTU +/- 10%) C7Q4387 9/18 LaMotte Standard H (Turb. 10 NTU +/- 10%) C6Q8400D 08/18 LaMotte

Standard I (Turb. 40 NTU +/- 8%) _____ Standard J (DO mg/L +/- 0.3mg/L) Water

Standard K (OVA 100ppm isobutylene) IBH-298-100-1 PINE 08/10/2021 Standard L (ORP 231 mV @25°C) 2082 10/2022 HANNA

DATE (m/d/y)	TIME (hr:min)	STD (A, B, C, etc.)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INITIAL, POST)	SAMPLER INITIALS
06/07/18	10:34	A	–	30.67	–	NO	Initial	KK
"	10:35	C	7.00	7.10	1.43	YES	"	"
"	10:39	B	4.00	4.00	0.00	"	"	"
"	10:44	D	10.00	10.14	1.40	"	"	"
"	10:48	E	500	518	3.60	"	"	"
"	10:31	G	1.00	1.10	10.0	"	"	"
"	10:33	H	10.00	8.91	10.9	"	"	"
"	10:55	J	100	98.9	1.00	"	"	"
"	10:51	L	240	224.4	6.50	"	"	"

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

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.

Attache
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.

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.

The Department will evaluate the Contractor as specified in the Agency Term Contract.

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/ContractD
etail.aspx?AgencyId=
370000&ContractId=GC
844

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 & Saftey 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 & Saftey 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/KEG - 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

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 Fraction ation	(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	0
GRAND TOTALS					6	5	5	5	1	1	1	1	2	10	0	0	0	0	5

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

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
Contract #: GC844
SPI ID #: 10895
Retainage %: 5%
FDEP Cost Share %: 100.00%
Total Extended Cost: $ 29,674.45
Without Handling Fee: $ 29,641.67
Purchase Order: B22481
Download Date: 10/30/17 11:37
Assginment Type: CSF

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

			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
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
Version: 10.0				**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

Site Manager Approval: _____

Print Name

_____

Signature

_____

Date of Review Letter

UT-160

Florida Department of Environmental Protection-Division of Waste Management-Petroleum Restoration Program

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 diamter 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.

Florida Department of Environmental Protection-Division of Waste Management-Petroleum Restoration Program

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) Caroline Herman (Signature) 4/25/2018 (Date)

Administrative Reviewer: James Fletcher (Print Name) James Fletcher (Signature) 4/26/2018 (Date)

Technical Approval (optional): LS 4/26/18

Cost Center Approval (optional): _____

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	2 1/2	13	3-13	13			0	8" MH
TOTALS				0									13			0	

JAEE
Environmental Service, Inc.

Direct Push Technology Quote Form

JAEE@bellsouth.net
(954) 476-8333 (Office) (954) 476-8347 (Fax)

Company Name: ATC	Contact: Dwight Schwendeman
Site Name: 6900 SW 6th St	Date: 4/25/16
Site Location: Plan	
Proposed Scope of Work: Provide Services to install one prepacked Monitoring well (1½" ID, 13' td, 10' screen, flush)	

DIRECT PUSH TECHNOLOGY	UNIT	RATE	NUMBER OF UNITS	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: 1½"	~~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: 1
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

Project / Client Jak / United - FDEP (1)

FDEP ID No. 13/8536663 FDEP PO No. B22481

Dwight W. Schwendeman
ATC Jeep Patriot
arrive: 1132 depart: 1435
weather: Sunny 60-65°F N/10-15
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 ↘ DERM ↙

well	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 01/10/19 (2)

Project / Client Jak / United - FDEP

FDEP ID: 13/8503663 DWS

Well	DTW	DTB	Remarks
~~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 T. Ugan and departed site

Location _____ Date _____

Project / Client _____

Location Jak / United Fuel Date 02/21/13

Project / Client 6900 SW 8th Street, Miami, FL

FDEP ID No. 13/8503663 FDEP PO No. 322481

Dwight W. Schwendeman - ATC Jeep Patriot

Leif Rodney - ATC Dodge Ram 1500 PU

arrive: 10/5 depart: DWS LF

weather: M-Sunny & 88-85°F ESE 15+

objective: Conduct GW Sampling per Task 2 of PO 322481 & FDERM e-mail update

- Review HASP, JSAs & SOW
- Notify owner Rep (Jose) on-site
- Calibrate GWS equipment
- Gauge DTW/Survey Well TOCs

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	5.87	Replaced Cap
6	5.83	5.50	Replaced Cap
7	6.37	4.96	Replaced Cap
8	6.05	5.28	Replaced Cap
MW-B	6.86	4.44	Replaced Cap

Location 6900 SW 8th St, Miami Date 02/21/2018

Project / Client Jak Service Center / United Fuel

Z1014306699

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

* Assist'd D. Schwenderman w/ Survey monitoring well top-of-casting elevations for wells...
- MW1, MW2, MW3, MW4, MW5, MW6, MW7, MW8, MWB

6

Location 6900 SW 8th St, Miami Date 02/22/2018

Project / Client Jak Service Center / United Fuel - FDEP

Z10143069 9

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, MW5, MW8

Location 6900 SW 8th Street, Miami Date 06/05/18

Project / Client Jak Service Center dba United Fuel

FDEP No. 13/ PO No.

Dwight W. Schwenderman - ATC Jeep Patrol
Leif Rodney - ATC Dodge Ram
arrive: 0850 depart: DW 1145
weather: AM - sunny ≈ 80-92°F WS 5-10
objective: Advance 5 SBs to 6' and install (1) 13' MW
- Notify J. Ugen on-site
- Conduct tailgate safety meeting review HASP, JSAs & SOW
- Set up DP rig @ SB-3 location & hand clear to 5'

Depth	SB-3 concrete	Lithology	OVA (PID)
0925	0-2	Fill - LS mix with P-rock	0.5 *
	2-4	Fill - LS	<0.1
	4-6	Sand grey to light grey mtst	<0.1
	6-8	Sand grey staining - Pet odors	
0935	SB-4	Concrete, LS. fill,	
0945	0-2	@9" Sand Pale brown mtst	<0.1
	2-4	Sand grey ~~trending~~	<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 Jak Service Center dba United Fuel

FDEP No. 13/ PO No.

- Soil borings / Sampling Continued

	SB-2	Lithology	OVA (PID)
1010	0-2	concrete Fill-LS grn	<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		
1035	0-2	concrete LS 6" sand	<0.1
	2-4	greyish brown trending	<0.1
1040	4-6	to pale brown LS	<0.1 *
		@ 3.5' very light grey to white to 8'	
	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	<0.1
		pale brown	
	6-8	grey staining light Pet odor	
1105	8-12	Sand mtst grey	

* Lab Sample
- Install monitoring well (MW-9)
MW-7 - DTW = 6.15' @ SB-5 Location
well construction - 1.5" Ø x 13' deep with 10' of pre-pack screen with 8" dia manhole

Rite in the Rain

Location 6900 SW 8th St, Miami Date 06/05/2018

Project / Client Jak Service Center

FDEP ID No.13/8503663 FDEP PO No. B22481

Leif Poehney / ATC

Dodge RAM

Temp: 83° Cloud: Partly Cloudy Wind: W 10 mph

Arrived: 09:05 Departed: 13:00

Objective: Soil Sampling / Well Install

- Arrived on-site to 2 drillers
- Conducted health & Safety
- Started drilling @ 09:20
- Ended drilling @ 11:20
- Left site and drove back to office to prep Samples
  * Informed property manager that I would be leaving a cone beside to concrete pad to collect upon arrival on thursday
- Drove samples to FedEx @ 15:00

Location 6900 SW 8th Street, Miami Date 06/05/2018

Project / Client Jak Service Center

FDEP ID No.13/8503663 FDEP PO No. B22481

Soil Boring		Time	OVA
SB3	0-2'	09:25	0.5
	2-4'	09:30	Ø
	4-6'	09:35	Ø
SB4	0-2'	09:45	Ø
	2-4'	09:50	Ø
	4-6'	09:55	0.1
SB2	0-2'	10:10	Ø
	~~6-8'~~	10:15	Ø
	4-6'	10:20	Ø
SB1	0-2'	10:25	Ø
	2-4'	↓	Ø
	4-6'	10:40	Ø
SB5	0-2'	11:00	Ø
	2-4'	11:05	0.3
	4-6'	11:10	Ø

MW2	6.15	
MW1	6.41	Pre-development @ 11:20
	6.90	@ start of development 11:48
	7.05	@ 11:55
	6.85	@ 12:00
	6.85	@ 12:07
	6.85	@ 12:15

Rite in the Rain

72

Location 6900 SW 8th St, Miami Date 06/07/2018

Project / Client Jak Service Center Dba United Fuel

FDEP ID #: 13/8503663 PO #: B22481

Leif Rodney / ATC

Dodge RAM

Temp: 85° Clouds: Partly Cloudy Wind: SW 6mph

Arrived: 10:20 Departed: 11:55

Objective: Groundwater Sampling Event

- Prepped sampling containers previous to arrival on site
- Texted Jose Ugan (store owner) to inform him of scope of work previous to arrival on-site.

TEMPLATE SITE ASSESSMENT REPORT

[Signature Page]

DATE: 08/29/2018
PO#/TA#/WO#: B22481

Site FDEP Facility ID #	13/8503663 Score: 10
Site Name:	Jak Service Center Inc DBA United Fuel
Address:	6900 SW 8th Street
City:	Miami
County:	Miami-Dade County
Consultant Company:	ATC Group Services LLC
Address:	9955 NW 116th Way, Suite 1
City, State, Zip	Miami, Florida 33178
Consultant Rep.:	Dwight W. Schwendeman
Phone #:	(305) 882 8200
Responsible Party Name:	Jorges & Julia Ugan
Address:	11050 SW 143 Road Place
City, State, Zip:	Miami, Florida 33186
Responsible Party Rep.:	Jorges & Julia Ugan
Phone #:	(305) 904-5975

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: Fritz Danneveld

Signature: _____

PE or PG License #: 1126

Date: 8/29/18 FLORIDA Stamp or Seal

Site Name: Jak Service Center dba United Fuel
Facility ID #: 13/8503663
Date: 08/29/2018

TABLE OF CONTENTS

SECTIONS INCLUDED IN REPORT:

Appendices

Site Name: Jak Service Center dba United Fuel
Facility ID #: 13/8503663
Date: 08/29/2018

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			
	SOIL SCREENING RESULTS	1	A
	SOIL ANALYTICAL RESULTS	2A-B	A
	GROUNDWATER ANALYTICAL RESULTS *(monitoring wells)*	3A-B	A
	GROUNDWATER ELEVATION DATA	4	A
	MONITORING WELL CONSTRUCTION DETAILS	5	A
	SUPPLY WELL CONSTRUCTION DATA *(includes well owner name and address information)*		A
	SITE ASSESSMENT SUMMARY FORM	6	A

Site Name: Jak Service Center dba United Fuel
Facility ID #: 13/8503663
Date: 08/29/2018

FIGURES

ATTACHED	*FIGURE #*	*APPENDIX*
Assessment Figures		
SITE PLAN - *including current and/or former tank locations, piping/utilities, and extent of soil excavations (if applicable)*	1	B
SITE VICINITY AREA USE MAP - *including all potential off-site sources of contamination and water wells located within 500 feet*	2	B
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)*	3	B
SOIL SAMPLING OVA RESULTS - *including data collected during monitoring well installation*	4	B
SOIL SAMPLE ANALYTICAL RESULTS - *including data collected from monitoring well installations.* ***This map can include recommended soil boring locations***	5	B
GROUNDWATER ANALYTICAL RESULTS MAP - *Benzene, BTEX, MTBE & Naphthalene concentrations plotted at each sampling point.* ***This map can include recommended well locations***	6	B
GROUNDWATER ELEVATION CONTOUR MAP *- with flow interpretation for each impacted zone.* ***Note, previous flow interpretations should be submitted when they are not consistent with the current flow interpretation(s)***	10 thru	B
GROUNDWATER PLUME INTERPRETATION(S) *- with contaminant isoconcentration contours plotted for each significant contaminant of concern (or total BTEX)*	7 thru 9	B
ESTIMATED FREE PRODUCT PLUME AREA *- including thickness measured*	NA	
GEOLOGIC/HYDROLOGIC CROSS-SECTION - *including lithologic, well screen and depth to water fluctuation information*	NA	
PROPOSED SOIL BORING AND MONITORING WELL LOCATIONS *(if not illustrated in another figure)*	NA	

FIGURES (continued)

ATTACHED		*FIGURE #*	*APPENDIX*
Remediation Figures			
____	REMEDIAL SYSTEM SITE LAYOUT - *showing remedial system layout and locations of major system components (e.g., monitoring and recovery wells, system housing, effluent discharge, etc.)*	NA	____
____	REMEDIATION SYSTEM SCHEMATIC - *showing treatment influent/effluent discharge, etc.*	NA	____

MISC. ATTACHMENTS

ATTACHED		*APPENDIX*
X	LABORATORY ANALYTICAL REPORTS - *including COCs required for all sampling*	E
X	GROUNDWATER SAMPLING LOGS – *form FD 9000-24 is required for all groundwater sampling*	E
X	FIELD INSTRUMENT CALIBRATION RECORDS- *form FD 9000-8 is required for all groundwater sampling*	E
X	WELL CONSTRUCTION & DEVELOPMENT LOGS *recommend using Petroleum Cleanup Program forms*	D
X	BORING LOGS *recommend using Petroleum Cleanup Program forms*	D
____	CONTAMINATED SOIL AND/OR GW VOLUME AND CONTAMINANT MASS CALCULATIONS	____
____	COPIES OF OFF-SITE ACCESS AGREEMENTS	____
X	COPY OF APPLICABLE WORK ORDER, PURCHASE ORDER, OR TASK ASSIGNMENT	F
X	COPY OF APPLICABLE CHANGE ORDERS	F
____	COPY OF DISPOSAL MANIFESTS - *to document IDW soil and/or groundwater disposal*	____
____	AQUIFER TEST CALCULATIONS	____
____	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

X___ ELECTRONIC COPY OF TEMPLATE SITE ASSESSMENT REPORT

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 effect when the work can be performed? ***Please indicate when the requested information is best illustrated on the site map.***

The site is located at the southwest corner of the of the intersection of Southwest 8th Street and Southwest 69th Avenue, in Miami, Florida as depicted on Figure 1, Appendix A. The site is currently operated as a vehicular fuel service station and convenience store by United Fuel. The current underground storage tank (UST) system consists of two 10,000-gallon capacity USTs used to store regular and premium unleaded gasoline, and one 10,000-gallon capacity UST used to store diesel fuel. The USTs are of double-wall fiberglass construction and fitted with secondary containment sumps at each submersible turbine pump location. Double-wall fiberglass product transfer piping supplies fuel to four gasoline dispensers located in the northeast portion of the site and a single diesel fuel dispenser located on the east side of the site. The dispensers are fitted with secondary containment sumps. The system is fitted with a Veederoot automatic tank gauging system. The UST system was installed in September 1995. The current layout of the site including the UST system and monitoring well network is depicted on Figure 1, Appendix B.

Site map (Figure 1) illustrating all current & former tanks, lines and dispensers (including utilities, canopies, etc.) is included in Appendix B

Site Name: Jak Service Center dba United Fuel
Facility ID #: 13/8503663
Date: 08/29/2018

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.

ID#	AST or UST	Size (gallons)	Installation Date	Contents (unleaded gasoline/ diesel/etc.)	Status (active, removed or abandoned [in place])	Date Removed or Abandoned (if applicable)
1	UST	3,000	<08/01/1984	Gasoline	Removed	1995
2	UST	3,000	<08/01/1984	Gasoline	Removed	1991
3	UST	3,000	<08/01/1984	Gasoline	Removed	1991
4	UST	550	Unknown	Waste Oil	Removed	Unknown
5	UST	550	Unknown	Waste Oil	Removed	Unknown
6	UST	550	Unknown	Waste Oil	Removed	Unknown
7	UST	10,000	09/01/1995	Unleaded Gasoline	Active	NA
8	UST	10,000	09/01/1995	Unleaded Gasoline	Active	NA
9	UST	10,000	09/01/1995	Vehicular Diesel	Active	NA

-If above information is different than the Department's STCM database, please indicate source of updated information:

Based on a 1984 Dade County tank registration form dated April 1984 obtained from the RER/DERM Online Environmental Records database, UST Nos. 1 through 3 were installed prior to 1984. Additionally, multiple records reference UST Nos. 1 through 3 as 4,000-gallon capacity versus the 3,000-gallon capacity referenced in the FDEP STCM database.

	YES	NO
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.	X	

Tank and line tightness testing was most recently conducted on ???. Tank and line tightness test results are provided in Appendix C.

Copy of tightness test results included in Appendix _____

I-B) Petroleum System/Tank History (continued)

	YES	NO
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.***	X	

Note: Section I-C should be used to document soil, groundwater or product removal performed during closures.

A partial removal/upgrade of the vehicular fuel UST system was conducted in July 1991. Two of three 3,000 gallon steel USTs were removed and one 3,000-gallon steel UST was lined and restored to service. Note the three steel USTs are sometimes referenced as 4,000 USTs. Two dispenser islands and associated steel product piping were removed. A single dispenser/island was installed and with double-wall fiberglass piping. A TCAR for the removal of the two 3,000-gallon USTs prepared by Service Station Aid Environmental and dated August 7, 1991. The TCAR references the removal of three 550-gallon and two 2,000-gallon capacity USTs. Note, discussion of the three 550-gallon waste oil tanks is not included in this TSAR as no contamination was recorded at for these tanks and the site PCPP eligibility is specific to the vehicular fuel USTs. The TCAR references the removal of soil with organic vapor analyzer (OVA) readings greater than 500 parts per million (ppm). Groundwater samples were collected from the UST excavation pit for analysis by EPA Methods 602 and 610 for BTEX compounds, MTBE and PAHs. The report references the groundwater is "contaminated by members of the Gasoline groups in the vicinity of the underground storage tank". Groundwater analytical results were above the 1991 state standards and current GCTLs. A copy of the 1991 TCAR is provided in Appendix C.
The remaining 3,000-gallon steel UST piping and dispenser was removed from the subsurface and replaced with a new UST system in September 1995. The new UST system consisted of: three 10,000-gallon capacity double-wall fiberglass UST (two unleaded gas and one diesel fuel); double walled fiberglass piping; four gasoline dispensers north of the building and one diesel fuel dispenser east of the building. A TCAR for the removal of the 3,000-gallon UST was not located during the file review. A DERM tank Inspection Form dated September 12, 1995 indicates a strong petroleum odor was noted and references discussion with the contractor regarding elevated soil sample OVA readings. A copy of the As-Built drawing for the UST system installed in 1995 (current system) are provided in Appendix C.

☐ Description of system closure activities included in attached tank closure report.

Copy of tank or system closure report (if applicable) included in Appendix C

I-C) Release Information

	Discovery Date(s)	Program Type(s): *ATRP, EDI, PCPP, PLRIP or Non-program* *(please indicate if a non-program discharge has been combined with an eligible discharge)*
1st	07/15/1991	PCPP
2nd		
3rd		
4th		
5th		
6th		

-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].

Information regarding any discharge was not available in the FDEP OCULUS database. Information available on the RER/DERM Online Environmental Records database regarding the July 1991 discharge is limited to a DERM Site Inspection Form dated July 15, 2018 which references free floating product was observed on the surface of the groundwater exposed during the partial removal/upgrade of the vehicular fuel UST system in 1991 and the 1991 TCAR which references elevated PID readings for soil. A copy of the form is provided in Appendix C.

- *Suspected type(s) of product released:*

[X]	Leaded Gasoline	[ ]	Diesel/Kerosene	[X]	Unleaded Gasoline
[ ]	Used Oil	[ ]	Unknown	[ ]	Other: _____

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
	X		

The 1991 TCAR references the removal of contaminated soil as follows: "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." There is a date discrepancy with respect to the July 15, 1991 DERM Inspection Form. Reference to excavated and stockpiled soil is referenced in the DERM Site Inspection Form dated July 15, 1991.

Based on review of the DERM tank Inspection Form dated September 12, 1995, contaminated soil was detected during the 1995 removal of the remaining 3,000-gallon capacity UST. A strong petroleum odor was observed at the UST excavation pit. Reportedly, elevated OVA readings were obtained from soil samples collected by the consultant, Miller Engineering. "Contaminated" soil was observed staged on-site which a construction representative indicated was slated for thermal treatment at Rinker. The volume of soil removed and final disposition are unknown. A TCAR for the 1995 UST removal was not located during the review of OCULUS or RER/DERM Online Environmental Records database.

Site map (Figure NA) illustrating soil sampling locations is included in Appendix _____

Tabular summary of soil sampling results (Table NA) 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
	X		

Contaminated soil was removed during the 1991 UST removal as referenced above. The 1993 Contamination Assessment Report references the removal of approximately 80 cubic yards of contaminated soil and disposal by a "properly licensed contractor" on page 1 of the report in the Initial Remedial Action section.

Contaminated soil was removed during the 1995 UST removal as referenced above. The volume and disposition is unknown.

Approximate depth to water at time of excavation (if known) ~6 *feet bls*

Approximate amount removed *Unknown* *tons* [ ] *yds*^{3} [~80] *Date:* *1991*

Disposal method: *Unknown*

I-D) Initial Abatement/Source Removal (continued)

	YES	NO	N/A
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.	X		

Yes, as referenced in Section I-B, concentrations of BTEX compounds were above the 1991 standards and current GCTLs in a sample collected from the groundwater exposed in the UST excavation pit.

Site map (Figure NA) illustrating groundwater sampling locations is included in Appendix _____

	YES	NO	N/A
Was contaminated water removed? If yes, please identify removal location(s) and describe method of removal.		X	

Removal of contaminated water is not referenced in the 1991 TCAR or 1991 DERM inspection form. Removal of contaminated water is not referenced the DERM tank Inspection Form dated September 12, 1995.

Approximate volume removed: _____ *gallons* *Date(s):* _____

Disposal method: _____

I-D) Initial Abatement/Source Removal (continued)

	YES	NO	N/A
Was free product detected during petroleum system closure? If yes, please describe location(s) where product was observed and thickness observed.	X		

Yes, as referenced in Section I-C, free product was observed floating on the exposed groundwater in the former UST excavation pit by the DERM inspector (refer to DERM 07/15/1991 Inspection Report Form in Appendix C).

Free product is not referenced in the DERM Tank Inspection Form dated September 12, 1995.

Site map (Figure NA) illustrating locations where free product was observed is included in Appendix _____

Tabular summary of product thickness (Table NA) is included in Appendix _____

	YES	NO	N/A
Was free product removed? If yes, please identify removal location(s) and describe method of removal.			

Recovery of free product via absorbent pads is referenced on the 1991 DERM inspection form, however there is no reference of an estimated volume recovered or the disposition of the pads. Free product recovery is not referenced in the 1991 TCAR. The 1993 Contamination Assessment Report references the use of 14 absorbent pads and the "legal disposal" of the pads on page 1 of the report in the Initial Remedial Action section.

Volume removed: _____ *gallons* *Date(s):* _____

Disposal method: _____

SECTION II - Background Site Assessment Information

II-A) Receptor Investigation

	YES	NO	Unknown
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.		X	

.

Potable well survey map (Figure 3) is included in Appendix B
Potable well construction summary (Table NA) is included in Appendix

	YES	NO	Unknown
Are water wells, including irrigation, industrial and all potable wells (<100,000 gallons per day), located within1/4 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.		X	

Water well survey map (Figure) is included in Appendix
Water well construction summary (Table) is included in Appendix

II-A) Receptor Investigation (continued)

	YES	NO
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.*		X

Area use survey map (Figure 2) is included in Appendix B

	YES	NO	Unknown
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.*		X	

II-A) Receptor Investigation (continued)

	YES	NO	Unknown
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.*		X	

	YES	NO
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?	X	

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).

Site Name: Jak Service Center dba United Fuel
Facility ID #: 13/8503663
Date: 08/29/2018

II-B) Previous Site Assessment

Information not described in Section I ("release information" or "initial abatement/source removal")

	YES	NO
Was site assessment work performed? *If yes, please indicate who performed it (with reason performed) and dates performed (see table below)*	X	

List of all reports where site assessment information was originally submitted to the FDEP (oldest to most recent):

Date of report	Title of report	Company that prepared report
02/02/1993	Contamination Assessment Report	Petro-Hydro, Inc.
05/27/1994	Contamination Assessment Addendum Report	Petro-Hydro, Inc.
12/05/1994	Contamination Assessment Report Addendum II	Petro-Hydro, Inc.

	YES	NO
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).***	X	

Soil samples were collected from the 0-2, 2-4 and 4- 6 foot depth intervals from during the advancement of 15 soil borings including monitoring well boreholes. Soil sample headspace screening was conducted with an OVA. "Based on the OVA results obtained during the preparation of the CAR, CARA and CARA II, no excessively contaminated soil was identified at the site". Laboratory analysis was not conducted on any soil samples during the 1992/1994 contamination assessment.

☐ Results included in current soil OVA screening and soil analytical summary tables.

Site map (Figure multi) illustrating sampling locations is included in Appendix C
Tabular summary of soil sampling results (Table 1&2) is included in Appendix C

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.***	X	

10 shallow water table monitoring wells MW-5 through MW-14 and two deep monitoring wells DMW-1 and DMW-2 were installed during the 1992/1994 contamination assessment. The wells were installed in the vicinity of the former UST area and former dispenser to define dissolved phase hydrocarbons. The shallow water table monitoring wells were installed using hollow stem auger technology and constructed with two-inch diameter Schedule 40 PVC with either 9 or 10 feet of 0.010 or 0.015-inch slotted screen and five feet of solid riser. The borehole annular space was backfilled with either 20/30 or 6/20 grade silica sand. The wells were developed by the over pumping method. The wells were finished below grade in steel manholes..

Site map (Figure 1) illustrating well locations is included in Appendix C
Tabular summary of well construction details (Table 5) is included in Appendix A

	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***		X

Site map (Figure _____) illustrating the groundwater sampling results is included in Appendix _____
Tabular summary of groundwater sampling results (Table _____) is included in Appendix _____

II-B) Previous Site Assessment (continued)

YES NO

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).*** [X] [ ]

Groundwater sampling during the 1992 1992/1994 contamination assessment included the collection of groundwater samples from four compliance wells MW-1 through MW-4), 10 shallow water table monitoring wells (MW-5 through MW-14), and two deep monitoring wells DMW-1 and DMW-2). Groundwater samples were analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX compounds), methyl tert butyl ether (MTBE) polycyclic aromatic hydrocarbons (PAHs), volatile organic halocarbons (VOHs), ethylene dibromide (EDB) and lead (Pb). BTEX compounds and PAHs were detected above the GCTLs and NADCs in several monitoring wells. The highest concentrations of dissolved phase BTEX compounds and PAHs, were detected in monitoring wells MW-1, MW-2 and MW-3, located in close proximity to the former UST area and former dispenser islands.

[ ] Results included in current groundwater analytical summary table.

Site map (Figure multi) illustrating sampling locations is included in Appendix C
Tabular summary of groundwater results (Table 1&2) is included in Appendix C

YES NO

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).*** [ ] [X]

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 _____

II-B) Previous Site Assessment (continued)

Has the previous site assessment been approved by the FDEP (was a CAR or SAR approval letter issued?) YES [X] NO [ ]

Date site assessment (or contamination assessment) was approved: 12/30/1994

II-C) Previous Remediation

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 [X]

Date of RAP: _____ Prepared by: _____

[ ] Remedial Action Plan approved by FDEP. Date of RAP approval order _____

Was soil excavation (not associated with a system closure) performed? *If yes, please briefly describe work performed and discuss results.* YES [ ] NO [X]

The description of the source removal can be omitted if already discussed in the initial abatement section.

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 _____

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.		X

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: _____

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
	X	

Soil assessment tasks were conducted on June 5, 2018 using a hand tools and a GeoProbe direct push rig operated by JAEE Environmental Services. Five soil borings (SB-1 through SB-5) were advanced at the approximate locations identified on the site map provided by the RER/DERM in the scope of work email dated April 12, 2018. The GeoProbe soil sampling core tool was advanced to eight feet below grade to ensure recovery through the six foot depth interval. Soil samples were collected at two-foot intervals to six feet below grade per the scope of work. Soil sample headspace analysis was conducted in the field utilizing a Mini RAE 3000 photoionization detector. Soil samples ranged from below the OVA detection limit of 0.1 ppm (multiple boring locations/depths) to 0.5 ppm for the soil sample collected from the 0 to 2 foot depth interval at SB-3. The lithology encountered during soil boring advancement consisted primarily of mixed fill (former UST area), a medium to fine grain sand, and very light grey to white oolitic limestone. The water table was encountered at approximately 6.1 feet below grade. Per discussion with the RER/DERM case manager, grey stained soil with a petroleum odor was observed in the samples recovered from just below six feet to at least approximately eight feet below grade at soil borings SB-3, SB-4 and SB-5. The soil samples recovered from the six to eight foot depth interval were not screened with an OVA or sampled for laboratory analysis as per the FDEP PO and RFC No. 1.

Soil samples were collected for laboratory analysis directly from the hand auger bucket or direct push acetate sleeve using a soil syringe, encore sampler or stainless steel spoon as appreciate for the required analysis.

Date of last soil screening event (OVA data) with or without laboratory sampling: 06/05/2018

Site map (Figure 1) 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 2AB) is included in Appendix B

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.

X	BTEX/MTBE (*low//high)*	X	PAHs	X	TRPHs

Required for all sites where Used Oil contamination is suspected.

	Priority Pollutant Volatile Organics & Extractable Organics	X	As, Cd, Cr, Pb		TRPHs

III-A) Soil Investigation (continued)

	YES	NO	N/A
Was soil Investigative Derived Waste (IDW) generated?		X	

If yes, please describe method used for identifying soil needing disposal:

Volume of contaminated soil disposed of: _____ ☐ *drums* ☐ *cu. yds.*

Disposal method: _____

[soil results]

	YES	NO	N/A
Was soil contamination above applicable Cleanup Target Levels identified above the water table?		X	

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.

All vadose zone soil sample OVA results were less than one ppm. A total of five soil samples were collected during the soil assessment program as per the RER/DERM April 12, 2018 email and RFC No. 1. Soil samples were collected from soil boring SB-1 (4 - 6 feet), SB-2 (0 - 2 feet), SB-3 (0 - 2 feet) SB-4 (4 – 6 feet) and SB-5 (2 – 4 feet). The soil samples were submitted to SGS for analysis in accordance with EPA Test Methods 8260B for benzene, ethylbenzene, toluene and total xylenes (BTEX compounds) and methyl tert butyl ether (MTBE) and 8270C for polycyclic aromatic hydrocarbons (PAHs), and the FL-Pro Method for total recoverable petroleum hydrocarbons (TRPH). Additionally, the soil sample collected at SB-5 was analyzed by EPA Test Method 6010 for lead. Target petroleum hydrocarbon compounds were not detected above the Soil Cleanup Target Levels (SCTLs) in any of the five soil samples. Lead was not detected above the SCTLs in the soil sample collected from SB-5.

Approximate volume of vadose zone soil contamination: NA *cu. yds.*

Site map (Figure NA) illustrating extent of soil contamination is included in Appendix _____

Soil concentration summary (Table 2AB) is included in Appendix A

Soil sampling logs (for laboratory samples) are included in Appendix D

III-A) Soil Investigation (continued)

	YES	NO	N/A
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.*			X

Site map (Figure _____) illustrating proposed sampling locations is included in Appendix _____

	YES	NO	N/A
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.*	X		

As previously mentioned, grey stained soil with a petroleum odor was observed in the samples recovered from just below six feet to at least approximately eight feet below grade at soil borings SB-3, SB-4 and SB-5. The soil samples recovered from the six to eight foot depth interval were not screened with an OVA or sampled for laboratory analysis as per the FDEP PO and RFC No. 1.

Site map (Figure NA) illustrating proposed sampling locations is included in Appendix _____

III-B) Groundwater Investigation

[monitoring wells/direct push]

	YES	NO
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.***	X	

Monitoring well installation was conducted on June 5, 2018 as direct by the RER/DERM through the approval of RFC No. 1. Monitoring well MW-9 was installed by JAEE Environmental Services (license No. 11313) under the supervision of ATC personnel at the location. Monitoring well MW-9 was installed to a depth of approximately 13 feet below grade by the direct push method using a GeoProbe rig. The well was constructed of 1.5-inch diameter Schedule 40 PVC, with 10 feet of stainless steel, wire mesh-wrapped pre-packed screen and approximately three feet of solid riser. The well was finished at the surface within a traffic bearing road box and fitted with an expandable collar, water tight, lockable cap. The well was developed by the over pumping method.

Site map (Figure 1) illustrating the well locations is included in Appendix B
Tabular summary of well construction details (Table 5) is included in Appendix A
Monitoring well completion reports are included in Appendix D

	YES	NO
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***		N

Site map (Figure NA) illustrating the groundwater sampling results is included in Appendix _____
Tabular summary of groundwater sampling results (Table _____) is included in Appendix _____

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
	X	

Groundwater samples were collected from monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8 and MW-B on February 21 and 22, 2018as per PO No. B22481. The groundwater sampling was performed in accordance with FDEP SOP FS 2200 "Groundwater Sampling". Depth-to-groundwater and depth-to-bottom measurements were utilized to calculate the well volumes for the six wells. Well purging was conducted using a peristaltic pump fitted with disposable polyethylene tubing. The wells were purged at a flow rate between 0.1 and 0.2 gallons per minute (gpm) while temperature, pH, turbidity, conductivity and dissolved oxygen readings were measured and recorded. Groundwater samples were collected and placed in the appropriate containers as designated by SGS. The sample containers were placed on ice and shipped by Federal Express to SGS for analysis in accordance with EPA Test Methods 8260B for BTEX compounds and MTBE and 8270D for PAHs, and the FL-Pro Method for TRPH. Additionally, the groundwater sample collected from MW-7 was submitted for analysis in accordance with EPA Test Methods 8260B for volatile organic compounds (VOCs), 504.1 for ethylene dibromide and 6010C for lead. A groundwater sample was collected from MW-9 (new well) on June 7, 2018 for analysis in accordance with EPA Test Methods 8260B for BTEX compounds and MTBE, 8270D for PAHs, 6010 for lead, and the FL-Pro Method for TRPH. Groundwater sampling was performed as previously referenced.

If groundwater sampling not performed, indicate date of last sampling event (if applicable): _____

Indicate wells sampled on that date (if applicable): _____

Site map (Figure 6) illustrating the groundwater sampling results is included in Appendix B

Tabular summary of groundwater sampling results (Table 3AB) is included in Appendix A

Groundwater field sampling logs are included in Appendix E

Groundwater samples (previous sampling events included) have been collected and analyzed for:

Required for all suspected GAG/KAG sites.

[X] BTEX/MTBE	[X] PAHs	[X] TRPHs

Required for all contaminated GAG/KAG sites.

[ ] EDB	[X] 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

III-B) Groundwater Investigation (continued)

	YES	NO	N/A
Was groundwater IDW generated? If yes, please explain why disposal on-site was not possible.		X	

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.	X		

The analytical results for the groundwater samples collected from monitoring wells MW-1 through MW-7, MW-B and MW-9 were below the Groundwater Cleanup Target Levels (GCTLs) for BTEX compounds, MTBE and TRPH. PAHs were not detected above the GCTLs in the groundwater samples collected from MW-2 through MW-6, MW-B and MW-9. Polycyclic aromatic hydrocarbons (PAHs) were detected above the GCTLs in the groundwater samples collected from monitoring wells MW-1 and MW-7 as follows:

- Concentrations of 1-methylnaphthalene (40.2 µg/l) and 2-methylnaphthalene (38.9 µg/l) were above the GCTL of 28 µg/l and below the Natural Attenuation Default Concentration (NADC) of 280 µg/l in the groundwater sample collect from MW-1.
- The concentration of naphthalene (84.9 µg/l) was above the GCTL of 14 µg/l and below the Natural Attenuation Default Concentration (NADC) of 140 µg/l in the groundwater sample collect from MW-7.
- Concentrations of 1-methylnaphthalene (75.1 µg/l) and 2-methylnaphthalene (118 µg/l) were above the GCTL of 28 µg/l and below the Natural Attenuation Default Concentration (NADC) of 280 µg/l in the groundwater sample collected from MW-7.

Ethylene dibromide, VOCs and lead were not detected above the GCTLs in the groundwater sample collected from MW-7. Lead was not detected above the GCTL in the groundwater sample collected from MW-9.

Approximate volume of contaminated groundwater: Unknown *gallons*

Plume maps [Figure(s) 7-9] illustrating extent of groundwater contamination is/are included in Appendix B

III-B) Groundwater Investigation (continued)

	YES	NO	N/A
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.		X	

An additional monitoring well is required to provide horizontal definition of dissolved phase PAHs west of MW-1.

Site map (Figure 8-9) illustrating proposed monitoring well locations is included in Appendix B

	YES	NO	N/A
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.		X	

Deep monitoring wells are required adjacent to MW-1 and MW-7 to provide vertical delineation of PAHs.

Site map (Figure _____) illustrating proposed vertical extent well locations is included in Appendix _____

III-B) Groundwater Investigation (continued)

	YES	NO	Unknown
Is the lower aquifer(s) contaminated? If yes, please describe location and estimated depth of contamination. If unknown, please explain.			X

As indicated previously, deep monitoring wells are required adjacent to MW-1 and MW-7 to provide vertical delineation of PAHs.

Cross-section (Figure _____) illustrating vertical extent of contamination is included in Appendix _____

	YES	NO
Were natural attenuation parameters data collected? If yes, please specify which parameters were collected (and where collected) and provide interpretation of results.		X

Site map (Figure NA) illustrating natural attenuation parameter data is included in Appendix _____
Tabular summary of parameter sampling results (Table _____) is included in Appendix _____

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
	X	

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
	X	

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
	X	

Site map (Figure _____) illustrating potable well locations is included in Appendix _____

III-C) Free Product Investigation

	YES	NO
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.*		X

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 _____

	YES	NO	N/A
Has the extent of free product been delineated? *If no, please describe where additional wells or piezometers should be located.*			X

Site map (Figure _____) illustrating locations of proposed piezometers or wells is included in Appendix _____

	YES	NO	N/A
Is free product recovery ongoing? *If yes, please indicate the method and frequency of removal and summarize recovery efforts to date.*			X

Tabular summary of product recovery amounts (Table _____) is included in Appendix _____

	YES	NO	N/A
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.*			X

Site map (Figure _____) illustrating locations of proposed additional piezometers and/or wells for free product recovery is included in Appendix _____

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.

Evaluation of petroleum pact to soil in the saturated zone is recommended to evaluate long term effects on groundwater from petroleum stained soil observed as discussed in Section III A.

SECTION IV - Impacted Media

IV-A) Lithologic Summary

The impacted aquifer(s) can be best characterized by the following description (predominantly):
Select One

[ ] Sands [SW, SP, SM]	[ ] Sandy Clay, Clayey Sand or Silty Clays [SC, ML, CL]	[ ] Clays [CH]
[ ] Intermingled Sands and Clays	[ ] Intermingled Sands, Clays and Limestone	[X] 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.

The lithology encountered during soil boring advancement consisted primarily of mixed fill (former UST area), a medium to fine grain sand (SW), and very light grey to white oolitic limestone. The water table was encountered at approximately 6.1 feet below grade.

Lithologic cross-section (Figure NA) is included in Appendix _____

Is the lithologic information obtained to date sufficient to characterize the impacted media?	YES	NO
	[X]	[ ]

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.***

Site map illustrating proposed lithologic boring locations (Figure _____) is included in Appendix _____

IV-B) Hydrologic Summary

	YES	NO
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.]*	X	

	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.]*		X

	yes	no
Is original signed and sealed professional land survey included?		
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.*	X	

Depth-to-groundwater measurements were gauged in MW-1 through MW-8 and MW-B on February 21, 2018. The monitoring well top-of-casing (TOC) elevations were determined with an auto-level to the nearest 0.01 foot on February 21, 2018. The TOCs were referenced to a temporary benchmark with an arbitrary elevation of +20.00 feet. Casing elevations, depth-to-groundwater measurements and resultant water table elevation data are presented in Table 4 Appendix A. On February 21, 2018, depth-to-groundwater measurements within monitoring wells MW-1 through MW-8 and MW-B ranged between 6.05 and 6.86 with an average depth-to-groundwater of 6.49 feet. The apparent groundwater flow direction on February 21, 2018 was towards the northeast with a hydraulic gradient of 0.00003 ft./ft. calculated between MW-1 and MW-7.

Site map(s) [Figure(s) 10] illustrating upper zone water table elevations and interpretation(s) of groundwater flow direction(s) is/are included in Appendix B

Tabular summary of all groundwater elevation data (Table 4) is included in Appendix A

IV-B) Hydrologic Summary (continued)

	YES	NO
Have depth to groundwater and groundwater flow direction(s) in lower and/or intermediate aquifer(s) been determined?		N

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.*		N

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).*			X

The site is located approximately 3,100 feet southeast of a canal connected to the Miami river. Due to the distance to the nearest potentially tidally influenced water body, it is not likely that the groundwater beneath the site is tidally influenced.

Site map(s) [Figure(s)_____] illustrating changes in flow direction is/are included in Appendix _____

IV-B) Hydrologic Summary (continued)

Is groundwater flow in the impacted aquifers being influenced by pumping from nearby water supply wells?

YES	NO	Unknown
	X	

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 nearly 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 whether gradient is uniform across the site. Is there evidence of a vertical gradient? If "N/A", please explain.*

YES	NO	N/A
X		

The apparent groundwater flow direction on February 21, 2018 was towards the northeast with a hydraulic gradient of 0.00003 ft./ft. calculated between MW-1 and MW-7.

Hydraulic gradient data and calculations included in Appendix _____

Have any aquifer tests been performed at the subject site?

YES	NO
	N

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 _____

IV-B) Hydrologic Summary (continued)

Depth to groundwater in upper zone water-table wells (ft):	5.5	to	7.5	Average (ft):	6.5
Depth to groundwater in lower zone vertical extent wells (ft):		to		Average (ft):	

Observed maximum range of upper zone fluctuation (ft): 2 Tidally influenced? Yes [ ] No [X]

IV-C) Risk Evaluation

	YES	NO
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.*	[ ]	[X]

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____ in Appendix A.

	YES	NO
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.)?		X

V-B) Recommendations

	YES	NO
Is No Further Action (NFA) without conditions recommended? If yes, please provide reasons NFA is appropriate.		X

	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.*		X

Horizontal and vertical definition of dissolved phase PAHs above the GCTLs is required before a closure option can be selected.

V-B) Recommendations (continued)

	YES	NO
If the groundwater plume is shrinking or stable is there any reason that Remediation by Natural Attenuation (RNA) cannot be the selected remedial strategy?		X

If no, outline the proposed monitoring plan including monitoring wells, sampling parameters and sampling frequency. If yes, specify why natural attenuation is not appropriate.

Horizontal and vertical definition of dissolved phase PAHs above the GCTLs is required before a remedial strategy is selected.

Monitoring Wells: _____

Contaminants: _____ Frequency: _____ Duration: _____

	YES	NO
Is Source Removal (soil or free product) recommended? If yes, please outline proposed method and extent of source removal (is dewatering needed?)		X

Site map (Figure _____) illustrating proposed extent of excavation is included in Appendix _____

V-B) Recommendations (continued)

	YES	NO
Is a Limited Scope Remedial Action Plan (LSRAP) needed?		X

If yes, please provide reasons for performing limited remediation and briefly outline plan for remediation.

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?		X

If yes, please provide reasons for continuing approved RA at the site and indicate proposed modifications.

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).*		X

	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).*		X

The FDEP should be consulted before preparing a pilot test outline.

Site map (Figure_____) illustrating pilot test layout is included in Appendix _____

V-C) Comments

Any issues or concerns not addressed in previous questions which might influence remediation decisions at this site.

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:

Name	Duties	Dates On-Site (if applicable)		
Dwight W. Schwendeman	Project management/field work supervision	01/18/2018	thru	06/07/2018
Leif Rodney	Field work/data management	02/21/2018	thru	06/07/2018
Fritz Damveld	Profession geologist oversight and review		thru	
			thru	
			thru	
			thru	
			thru	
			thru	
			thru	

VI-A) Work Plan and Cost Summary

Briefly summarize initial work plan.

Site inspection, collection/analysis of groundwater samples from selected existing monitoring wells, soil assessment, monitoring well installation and groundwater sampling. Preparation of two Interim Assessment Reports and this TSAR.

Copy of original work order or task assignment is included in appendix F

Was any extra work authorized? *If yes, please summarize extra work planned for site.*	YES	NO
		X

Only change in drilling method.

Copies of all authorization forms are included in Appendix F

VI-A) Work Plan and Cost Summary (continued)

	YES	NO
Was any planned work <u>not</u> performed? If yes, please describe work not performed with reasons why not performed.		X

	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.	X	

Change in drilling costs from hollow stem auger to direct push due to overhead clearance constraints.

Copies of all needed subcontractor and/or materials invoices and draft change order cost template included in Appendix _____

APPENDIX A

TABLES

TABLE 1: SOIL SCREENING RESULTS

Facility Name: Jak Service Center dba United Fuel

6900 SW 8th Street, Miami

FAC ID#: 13/8503663

ft-bls = Feet Below Land Surface
ppm = parts per million
- = No Reading Taken
NR = No Recovery
NA = Not Applicable
Readings taken with Mini RAE 3000 PID

SAMPLE			OVA SCREENING RESULTS			COMMENTS
SAMPLE NO.	DATE COLLECTED	SAMPLE INTERVAL (ft-bls)	TOTAL READING (ppm)	CARBON FILTERED (ppm)	NET READING (ppm)	
SB-1	6/5/2018	0 - 2			<0.1	
		2 - 4			<0.1	
		4 - 6			<0.1	4 - 6' Lab Sample
SB-2	6/5/2018	0 - 2			<0.1	0 - 2' Lab Sample
		2 - 4			<0.1	
		4 - 6			<0.1	
SB-3	6/5/2018	0 - 2			0.5	0 - 2' Lab Sample
		2 - 4			<0.1	
		4 - 6			<0.1	
SB-4	6/5/2018	0 - 2			<0.1	
		2 - 4			<0.1	
		4 - 6			0.1	4 - 6' Lab Sample
SB-5	6/5/2018	0 - 2			<1	
		2 - 4			0.3	2 - 4' Lab Sample
		4 - 6			<1	

TABLE 2A: SOIL ANALYCAL RESULTS - VOAs and TRPH

Facility ID#: **13/8503663** **Facility Name:** **Jak Service Center dba United Fuel**

6900 SW 8th Street, Miami

Sample				OVA	Laboratory Analyses						
Soil Sample ID	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)	Lead (mg/kg)
SB-1	6/5/2018	~5.0	4 - 6	<0.1	0.0019 U	0.0015 U	0.0015 U	0.0032 U	0.0015 U	6.2 U	N/A
SB-2	6/5/2018	~5.0	0 - 2	<0.1	0.0011 U	0.00089 U	0.00089 U	0.0019 U	0.00089 U	5.7 U	N/A
SB-3	6/5/2018	~5.0	0 - 2	0.5	0.0014 U	0.0011 U	0.0011 U	0.0023 U	0.0011 U	9.07	N/A
SB-4	6/5/2018	~5.0	4 - 6	0.1	0.00069 U	0.00057 U	0.00057 U	0.0012 i	0.00057 U	9.12	N/A
SB-5	6/5/2018	~5.0	2 - 4	0.3	0.00082 U	0.00067 U	0.00067 U	0.0014 U	0.00067 U	5.5 U	4.0 i
Leachability Based on Groundwater Criteria (mg/kg)					0.007	0.6	0.5	0.2	0.09	340	
Direct Exposure Residential (mg/kg)					1.2	1,500	7,500	130	4,400	460	

Notes: N/A = Not Analyzed for this parameter

NS = Not Sampled. **Bolded Text indicates value exceeds GCTL.**

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

J = The value is outside laboratory established criteria.

***Leachability values may be derived using the SPLP Test to calculate site-specific SCTLs or may be determined using TCLP in the event oily wastes are present.

TABLE 2B: SOIL ANALYTICAL SUMMARY - PAHs

Facility ID#: **13/8503663** **Facility Name:** **Jak Service Center dba United Fuel**

6900 SW 8th Street, Miami

Sample				OVA	Laboratory Analyses										
Soil Sample ID	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-lene (mg/kg)	Fluoran-thene (mg/kg)	Fluor-ene (mg/kg)	Phenan-threne (mg/kg)	Pyrene (mg/kg)
SB-1	6/5/2018	~5.0	4 - 6	0	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.020 U	0.0041 U	0.020 U	0.032 U	0.020 U	0.020 U
SB-2	6/5/2018	~5.0	4 - 6	0	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.019 U	0.0039 U	0.019 U	0.031 U	0.019 U	0.019 U
SB-3	6/5/2018	~5.0	0 - 2	0.5	0.028 U	0.028 U	0.028 U	0.028 U	0.028 U	0.017 U	0.0383	0.116	0.028 U	0.0295 i	0.0908
SB-4	6/5/2018	~5.0	4 - 6	0.1	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.018 U	0.0036 U	0.018 U	0.029 U	0.018 U	0.018 U
SB-5	6/5/2018	~5.0	2 - 4	0.3	0.028 U	0.028 U	0.028 U	0.028 U	0.028 U	0.018 U	0.0036 U	18 U	0.028 U	0.018 U	0.018 U
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

Sample				OVA	Laboratory Analyses							
Soil Sample ID	Date Collected	Depth to Water (ft)	Sample Interval (fbls)	Net OVA Reading (ppm)	Benzo (a) pyrene (mg/kg)	Benzo (a) anthra-cene (mg/kg)	Benzo (b) fluoran-thene (mg/kg)	Benzo (k) fluoran-thene (mg/kg)	Chry-sene (mg/kg)	Dibenz (a,h) anthra-cene (mg/kg)	Indeno (1,2,3-cd) pyrene (mg/kg)	*Benzo (a) pyrene equivalent (mg/kg)
SB-1	6/5/2018	~5.0	4 - 6	0	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	NC
SB-2	6/5/2018	~5.0	0 - 2	0	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	NC
SB-3	6/5/2018	~5.0	0 - 2	0.5	0.0447	0.0525	0.0444	0.0438	0.0653	3.5 U	0.0361	0.060
SB-4	6/5/2018	~5.0	4 - 6	0.1	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	NC
SB-5	6/5/2018	~5.0	2 - 4	0.3	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	NC
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

Notes: NA = Not Analyzed for this parameter N/A = Not Applicable, composite soil sample collected from stockpiled soils *Calculations provided in Appendix C

NS = Not Sampled. # = Direct Exposure value not applicable except as part of the Benzo(a)pyrene equivalent.

** = Leachability value not applicable. NC - Not calculated <0.1 mg/kg

[a] - Soil sample SB-3 was collected within one foot of the water table and is considered a "wet" sample and therefore the Benzo(a)pyrene equivalent is not considered an exceedance of the SCTL.

TABLE 3A: GROUNDWATER ANALYTICAL SUMMARY - VOCs, Lead and TRPH

Facility ID#: 13/85036 Facility Name: Jak Service Center dba United Fuel

6900 SW 8th Street, Miami

Sample		Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	1,2-Dichloroethane	Ethylene Dibromide	Lead	TRPH
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
MW-1	2/21/2018	0.31 U	0.30 U	0.36 U	0.72 U	0.23 U	N/A	N/A	N/A	1.79
MW-2	2/21/2018	0.32 i	0.30 U	0.36 U	0.72 U	0.23 U	N/A	N/A	N/A	2.13
MW-3	2/21/2018	0.58 i	0.32 i	0.50 i	1.3 i	0.23 U	N/A	N/A	N/A	1.63
MW-4	2/21/2018	0.31 U	0.30 U	0.36 U	0.72 U	0.23 U	N/A	N/A	N/A	0.30
MW-5	2/22/2018	0.31 U	0.30 U	0.36 U	0.72 U	0.23 U	N/A	N/A	N/A	0.15 U
MW-6	2/22/2018	0.31 U	0.30 U	0.36 U	0.72 U	0.23 U	N/A	N/A	N/A	0.15 U
MW-7	2/22/2018	0.32 i	0.30 U	3.5	0.80	0.23 U	0.31 U	0.010 U	**18**	3.25

TABLE 3A: GROUNDWATER ANALYTICAL SUMMARY - VOCs, Lead and TRPH

Facility ID#: 13/85036 Facility Name: Jak Service Center dba United Fuel

6900 SW 8th Street, Miami

Sample		Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	1,2-Dichloroethane	Ethylene Dibromide	Lead	TRPH
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
MW-8	2/22/2018	0.31 U	0.30 U	0.36 U	0.72 U	0.23 U	N/A	N/A	N/A	0.15 U
MW-B	2/22/2018	0.31 U	0.30 U	0.36 U	0.72 U	0.23 U	N/A	N/A	N/A	0.15 U
MW-9	6/7/2018	0.31 U	0.30 U	0.36 U	0.72 U	0.23 U	N/A	N/A	5.4	0.665
GCTLs		1**	40**	30**	20**	20	3	0.02	15	5
NADCs		100	400	300	200	200	30	2	150	50

Notes: NA = Not Analyzed for this parameter. NS = Not Sampled.

Bolded Text indicates value exceeds GCTL.

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.

i = Laboratory result between MDL and PQL U - Not Detected (ND)

TABLE 3B: GROUNDWATER ANALYTICAL SUMMARY - PAHs

Facility ID#: 13/8503663 **Facility Name:** Jak Service Center dba United Fuel

6900 SW 8th Street, Miami

Sample ID	13/8503663	Naph-thalene (µg/L)	1-Methyl-naph-thalene (µg/L)	2-Methyl-naph-thalene (µg/L)	Acen-aph-thene (µg/L)	Acen-aph-thylene (µg/L)	Anthra-cene (µg/L)	Benzo (g,h,i) pery-lene (µg/L)	Fluoran-thene (µg/L)	Fluor-ene (µg/L)	Phenan-threne (µg/L)	Pyrene (µg/L)	Benzo (a) pyrene (µg/L)	Benzo (a) anthra-cene (µg/L)	Benzo (b) fluoran-thene (µg/L)	Benzo (k) fluoran-thene (µg/L)	Chry-sene (µg/L)	Dibenz (a,h) anthra-cene (µg/L)	Indeno (1,2,3-cd) pyrene (µg/L)
MW-1	2/21/2018	0.59 i	**40.2 a**	**38.9 a**	0.32 U	0.32 U	0.20 U	0.032 U	0.20 U	0.39 i	0.20 U	0.20 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U
MW-2	2/21/2018	1.5	9.5	8.2	0.65 i	0.32 U	0.20 U	0.032 U	0.20 U	0.63 i	0.37 i	0.20 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U
MW-3	2/21/2018	13.4	13.4	21.8	0.32 U	0.32 U	0.20 U	0.032 U	0.20 U	0.43 i	0.20 U	0.20 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U
MW-4	2/21/2018	0.49 i	2.5	2.4	0.32 U	0.32 U	0.20 U	0.032 U	0.20 U	0.20 U	0.20 U	0.20 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U
MW-5	2/22/2018	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.20 U	0.032 U	0.20 U	0.20 U	0.20 U	0.20 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U
MW-6	2/21/2018	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.20 U	0.032 U	0.20 U	0.20 U	0.20 U	0.20 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U
MW-7	2/22/2018	**84.9 a**	**75.1 a**	**118 a**	0.32 U	0.32 U	0.20 U	0.032 U	0.20 U	0.54 i	0.23 i	0.20 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U

TABLE 3B: GROUNDWATER ANALYTICAL SUMMARY - PAHs

Facility ID#: 13/8503663 **Facility Name: Jak Service Center dba United Fuel**

6900 SW 8th Street, Miami

Sample		Naph-thalene	1-Methyl-naph-thalene	2-Methyl-naph-thalene	Acen-aph-thene	Acen-aph-thylene	Anthra-cene	Benzo (g,h,i) pery-lene	Fluoran-thene	Fluor-ene	Phenan-threne	Pyrene	Benzo (a) pyrene	Benzo (a) anthra-cene	Benzo (b) fluoran-thene	Benzo (k) fluoran-thene	Chry-sene	Dibenz (a,h) anthra-cene	Indeno (1,2,3-cd) pyrene
ID	13/8503663	(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)
MW-8	2/22/2018	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.20 U	0.032 U	0.20 U	0.20 U	0.20 U	0.20 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U
MW-B	2/22/2018	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.20 U	0.032 U	0.20 U	0.20 U	0.20 U	0.20 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U
MW-9	6/7/2018	0.32 U	0.32 U	0.72 i	0.32 U	0.32 U	0.20 U	0.032 U	0.20 U	0.20 U	0.20 U	0.20 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U
GCTLS		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]
NADC		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

NA = Not Analyzed for this parameter. 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.

i = Laboratory result between MDL and PQL U - Not Detected (ND) **Bolded Text indicates value exceeds GCTL.**

a - Results from Run 2

TABLE 4: GROUNDWATER ELEVATION SUMMARY

Facility Name: Jak Service Center dba United Fuel
6900 SW 8th Street, Miami
FAC ID#: 13/8503663

NM = Not Measured
Blank = No Data

Well No.	MW-1			MW-2			MW-3			MW-4		
Diameter (in)	2			2			2			2		
Well Depth (ft)	19.1			18.1			12.0			19.3		
Screen Interval (ft)	4.1-19.1			3.1-18.1			2-12			4.3-19.3		
TOC Elevation (ft)	15.39			15.39			15.37			15.51		
DATE	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**
2/21/2018	8.69	6.70		8.68	6.71		8.68	6.69		8.70	6.81	
6/5/2018												

Well No.	MW-5			MW-6			MW-7			MW-8		
Diameter (in)	2			2			2			2		
Well Depth (ft)	14.7			13.3			13.0			12.7		
Screen Interval (ft)	4.7-14.7			3.3-13.3			3-13			2.7-12.7		
TOC Elevation (ft)	15.13			14.50			15.04			14.72		
DATE	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**
2/21/2018	8.70	6.43		8.67	5.83		8.67	6.37		8.67	6.05	
6/5/2018												

Well No.	MW-B			MW-9		
Diameter (in)	2			1.5		
Well Depth (ft)	14.6			13.0		
Screen Interval (ft)	4.6-14.6			3-13		
TOC Elevation (ft)	15.56			15.87		
DATE	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**
2/21/2018	8.70	6.86				
6/5/2018				9.54	6.33	

TABLE 5 : MONITORING WELL CONSTRUCTION DETAILS

Facility Name: Jak Service Center dba United Fuel
6900 SW 8th Street, Miami
FAC ID#: 13/8503663

HSA = Hollow Stem Auger
DP = Direct Push
NA = Not Applicable * estimated
NM = Not Measured
DC = Driven Casing

Well ID	Date of Installation	Installation Method	Top of Casing Elevation*	A/G Riser Length	Total Well Depth	Screened Interval	Well Diameter (inches)	Remarks
1992 / 1994 Contamination Assessment								
MW-1	Unknown	HSA	NA	No	14 feet	4 - 14 feet	2	Destroyed during 1995 UST replacement
MW-2	Unknown	HSA	15.04	No	13 feet	3 - 13 feet	2	Appears to be current MW-7
MW-3	Unknown	HSA	NA	No	13 feet	3 - 13 feet	2	Destroyed during 1995 UST replacement
MW-4	Unknown	HSA	NA	No	14 feet	4 - 14 feet	2	Destroyed during 1995 UST replacement
MW-5	12/9/92	HSA	15.56	No	13 feet	3 - 13 feet	2	Appears to be current MW-B
MW-6	12/9/92	HSA	14.72	No	12 feet	2 - 12 feet	2	Appears to be Ccurrent MW-8
MW-7	12/9/92	HSA	NA	No	12 feet	2 - 12 feet	2	Destroyed during 1995 UST replacement
MW-8	12/9/92	HSA	NA	No	12 feet	2 - 12 feet	2	Destroyed during 1995 UST replacement
MW-9	4/28/94	HSA	NA	No	15 feet	5 - 15 feet	2	Destroyed during 1995 UST replacement
MW-10	4/28/94	HSA	NA	No	15 feet	5 - 15 feet	2	Destroyed during 1995 UST replacement
MW-11	4/28/94	HSA	NA	No	15 feet	5 - 15 feet	2	Destroyed during 1995 UST replacement
MW-12	10/28/94	HSA	15.13	No	14 feet	4 - 14 feet	2	Appears to be current MW-5
MW-13	10/28/94	HSA	NA	No	14 feet	4 - 14 feet	2	Destroyed during 1995 UST replacement
MW-14	10/28/94	HSA	NA	No	14 feet	4 - 14 feet	2	Destroyed during 1995 UST replacement
DMW-1	12/9/92	HAS/DC	NA	No	35 feet	25-35 feet	2	Destroyed during 1995 UST replacement
DMW-2	4/28/94	HAS/DC	NA	No	45 feet	40-45 feet	2	Destroyed during 1995 UST replacement

TABLE 5 : MONITORING WELL CONSTRUCTION DETAILS

Facility Name: Jak Service Center dba United Fuel
6900 SW 8th Street, Miami
FAC ID#: 13/8503663

HSA = Hollow Stem Auger
DP = Direct Push
NA = Not Applicable * estimated
NM = Not Measured

Current Compliance wells								
Well ID	Date of Installation	Installation Method	Top of Casing Elevation*	A/G Riser Length	Total Well Depth	Screened Interval*	Well Diameter (inches)	Remarks
MW-1	9/1/95	Unknown	15.39	No	19 feet	5 - 19 feet	2	
MW-2	9/1/95	Unknown	15.39	No	18 feet	5 - 18 feet	2	
MW-3	9/1/95	Unknown	15.37	No	12 feet	2 - 12 feet	2	
MW-4	9/1/95	Unknown	15.51	No	19 feet	5 - 19 feet	2	
2018 Limited Site Assessment								
MW-9	6/5/18	DP	15.87	No	13 feet	3 - 13 feet	1.5	

TABLE 6

Site Assessment Summary Worksheet

FDEP FAC ID #: 13/8503663

Site Name: Jak Service Center Inc. dba United Fuel

Does Site Qualify for LTNAM: Yes

Dominant Lithology Vadose Zone

First Lithology (USCS): Mixed sand and limestone fragment fill

Second Lithology (USCS): Limestone

Dominant Lithology Saturated Zone

First Lithology (USCS): Limestone

Second Lithology (USCS): Limestone

Average Depth to Water: 5' - 10'

Groundwater Flow Direction: Northeast

Recommended Technology for SRCO: Natural Attenuation

Combined Technology:

Consultant SRCO Cost Estimate: $25,001 - $50,000

Consultant NFAC Cost Estimate: $25,001 - $50,000

GW Contaminants one per constituent	≤ 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	X			

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

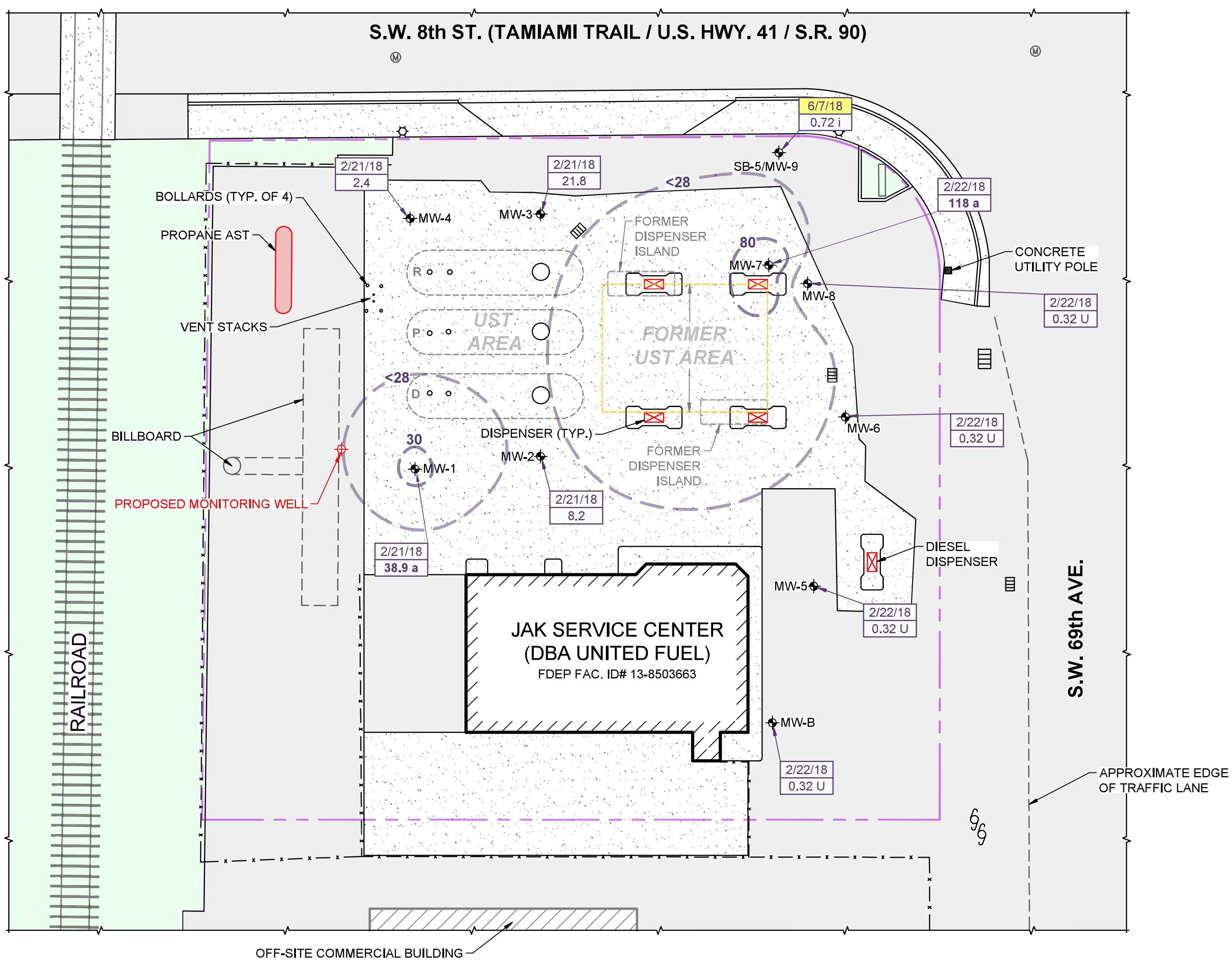
* Below direct exposure and leachability (or alternative SCTLS established through SPLP or fractionation)

Plume Characteristics	Groundwater	Soil
Shrinking or Stable	Yes	
On-site only	Unknown	N/A
Plume <1/4 acre	Unknown	N/A
Exclusion Zone Only	No	N/A
In FDOT ROW only	No	N/A
On State-Owned Land Only	No	N/A
Organoleptic Exceedence only (< HB CTLs)	No	
DE Soil Exceedences above 2'		No
DE Soil Exceedences from 2' to 10'		Unknown
DE Soil Exceedences below 10'		Unknown
Free Product	No	
Site Qualifies for LSSI NFA (any score)	Unknown	

DE = Direct Exposure CTLS ; HB = Health Based

APPENDIX B

FIGURES



LEGEND:

⌖	PROPOSED MONITORING WELL (QTY. 1)
✦	MONITORING WELL
	SOIL BORING - JUN. 2018
Ⓜ	MAN HOLE COVER
☼	LIGHT POLE
	UTILITY POLE
	STORM WATER CATCH BASIN
	CONCRETE PAVEMENT
	ASPHALT PAVEMENT
	GRASS / LANDSCAPING / UNPAVED
UST	UNDERGROUND STORAGE TANK
AST	ABOVEGROUND STORAGE TANK

— — —	APPROXIMATE PROPERTY BOUNDARY
—·—·—	FENCE

SAMPLE DATE (mm/dd/yy)
DISSOLVED 2-METHYLNAPHTHALENE CONCENTRATION

µg/L	INFERRED DISSOLVED 2-METHYLNAPHTHALENE PLUME

ALL RESULTS IN µg/L (micrograms per liter = parts per billion).
Most recent sampling event highlighted.
BOLD TEXT indicates concentration exceeds Groundwater Cleanup Target Level (GCTL).
Natural Attenuation Default Concentration (NADC).
2-METHYLNAPHTHALENE GCTL = 28 µg/L.
2-METHYLNAPHTHALENE NADC = 280 µg/L.

U	ANALYTE NOT DETECTED AT METHOD DETECTION LIMIT.
I	INDICATES REPORTED VALUE IS BETWEEN METHOD DETECTION LIMIT AND PRACTICAL QUANTITATION LIMIT.
a	RESULTS FROM RUN 2.

0 Approximate Feet 20'

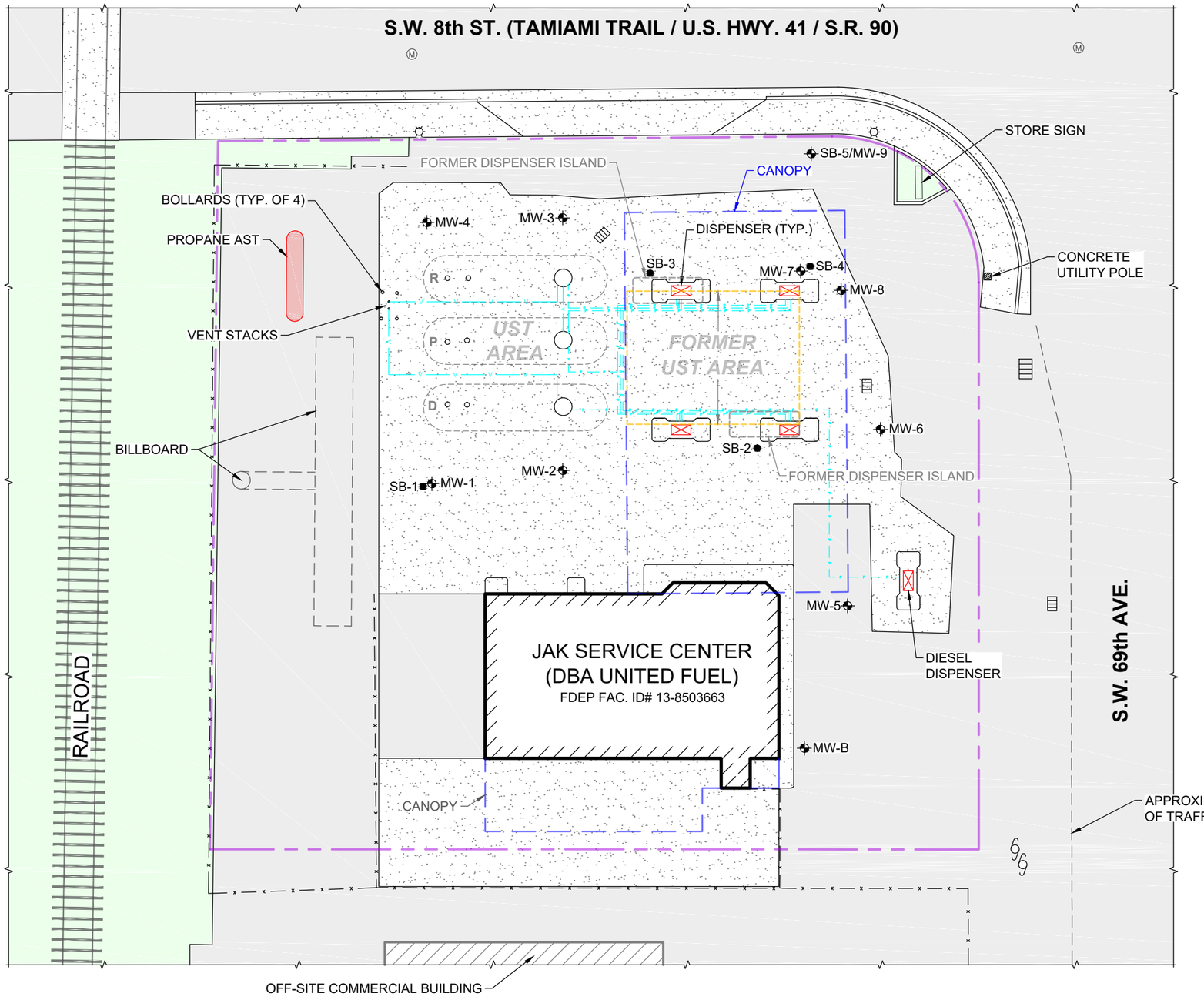
NAME/ADDRESS:
JAK SERVICE CENTER (DBA UNITED FUEL)
FDEP FAC. ID# 13-8503663
6900 Southwest 8th Street
Miami, Miami-Dade County, Florida

DRAWING TITLE:
INFERRED EXTENTS OF DISSOLVED 2-METHYLNAPHTHALENE

ATC
Certificate of Authorization #7783
9955 N.W. 116 Way, Suite 1
Miami, Florida 33178
(305) 882-8200
(305) 882-0466 FAX

DRAWN BY:	J.J.D.	FIGURE NO.
CHECKED BY:	D.W.S.	9
PROJECT NO.	Z101430699	

G:\AutoCAD\Cardno-ATC projects\031.MIAMI-OFFICE\Z101430699 Jak Service Center Miami\2018-08\9 GW 2MNAPH PLUME 2018-06.dwg, 8/29/2018 6:18:51 PM



LEGEND:	
⌖	MONITORING WELL
●	SOIL BORING - JUN. 2018
Ⓜ	MAN HOLE COVER
☼	LIGHT POLE
	UTILITY POLE
	STORM WATER CATCH BASIN
	CONCRETE PAVEMENT
	ASPHALT PAVEMENT
	GRASS / LANDSCAPING / UNPAVED
UST	UNDERGROUND STORAGE TANK
AST	ABOVEGROUND STORAGE TANK

	APPROXIMATE PROPERTY BOUNDARY
x — x — x —	FENCE
— P — P —	UNDERGROUND PRODUCT/FUEL PIPE
— V — V —	UNDERGROUND VAPOR/VENT PIPE

0 Approximate Feet 20'

N
W E
S

NAME/ADDRESS:

JAK SERVICE CENTER (DBA UNITED FUEL)
FDEP FAC. ID# 13-8503663
6900 Southwest 8th Street
Miami, Miami-Dade County, Florida

DRAWING TITLE:

SITE PLAN

ATC
Certificate of Authorization #7783
9955 N.W. 116 Way, Suite 1
Miami, Florida 33178
(305) 882-8200
(305) 882-0466 FAX

DRAWN BY:	J.J.D.
CHECKED BY:	D.W.S.
PROJECT NO.	Z101430699

FIGURE NO. **1**

F:\AutoCAD\Cardno-ATC projects\031 MIAMI-OFFICE\Z101430699 Jak Service Center Miami\2018-08\1 SITE PLAN.dwg, 8/27/2018 1:38:42 PM

LEGEND:

1. JAK SERVICE CENTER (DBA UNITED FUEL) (Subject)
2. ANTHONY PAINT & BODY SHOP
3. INDUSTRIAL/LIGHT MANUFACTURING (Window tinting, Sheet Metal Supply)
4. FLORIDA BANKERS INSURANCE
5. GOODYEAR TIRE STORE
6. VENUS MOTEL
7. EXECUTIVE TROPIC GARDEN HOTEL
8. WALMART GAS STATION
9. REGIONS BANK

ADDRESS:
JAK SERVICE CENTER (DBA UNITED FUEL) - FDEP FAC. ID# 13-8503663
6900 Southwest 8th Street
Miami, Miami-Dade County, Florida

FIGURE TITLE:
SITE VICINITY AREA USE MAP

N
W E
S

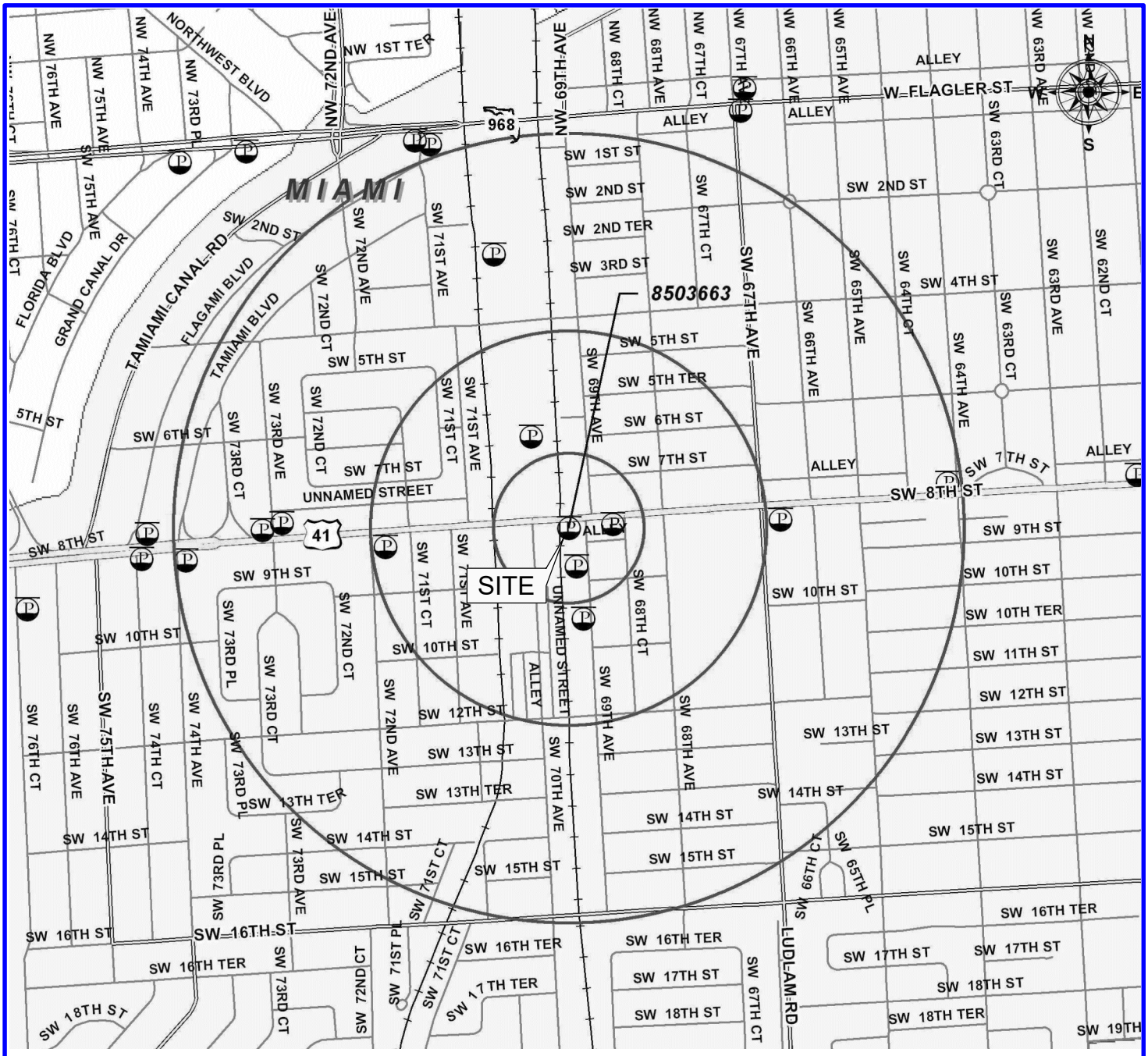
0 Approximate Feet 120

PROJECT NO.:
Z101430699

FIGURE:
2

ATC

F:\AutoCAD\Cardno-ATC projects\031 MIAMI-OFFICE\Z101430699 Jak Service Center Miami\2018-08\2 SITE VICINITY (AERIAL).dwg, 8/27/2018 3:18:58 PM



Sample Results--Petroleum*

- ★ >1/2 MCL/HAL
- ● <1/2 MCL/HAL
- ■ <1/4 MCL/HAL
- ▲ Sampled, no detect
- ⚑ Not sampled within last year (3 years if large Community PWS)
- Ⓦ No sample found for this analysis

* The following chemicals were use for the Petroleum Indicator analysis: Benzene, Ethylbenzene, Toluene, Xylenes (Total), Napthalene, and Methyl-Tert-Butyl-Ether (MTBE)

SDWA PWS Wells

Design Capacity

- PS <150,000 gpd
- P150 ≥150,000 gpd

Facility Type

- Ⓟ Petroleum
- P Proximity Threat
- Ⓓ Drycleaner
- Ⓣ Toxics
- ? Other
- Ⓒ Cattle Dip Vat

SOURCE:
FLORIDA DEPARTMENT OF HEALTH
BUREAU OF WATER PROGRAMS
POTABLE WELL SURVEY
8/10/2009

ADDRESS:
JAK SERVICE CENTER (DBA UNITED FUEL) - FDEP FAC. ID# 13-8503663
6900 Southwest 8th Street
Miami, Miami-Dade County, Florida

FIGURE TITLE:
POTABLE WELL LOCATION MAP

N W E S

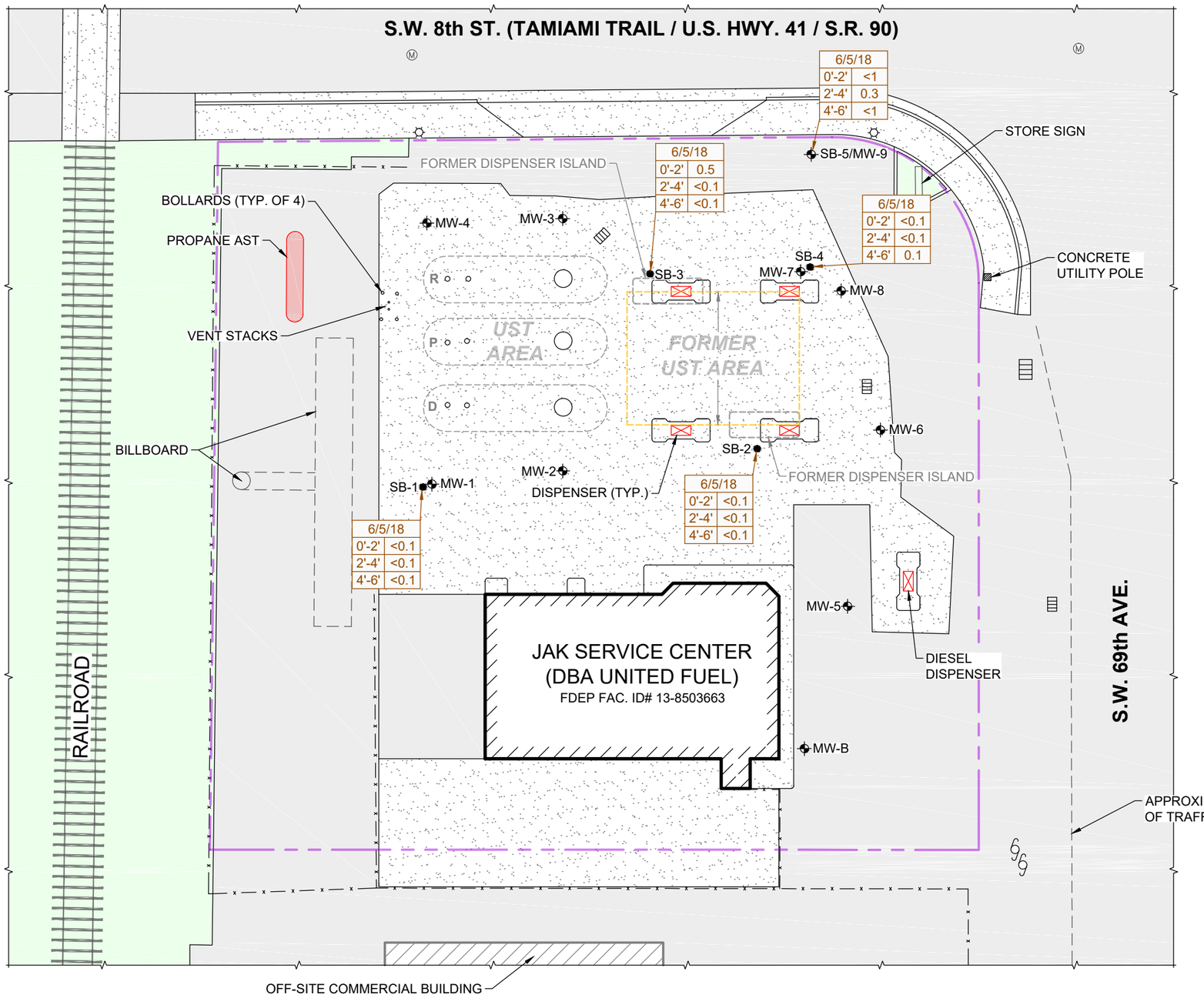
0 Approximate Feet 1000

PROJECT NO.:
Z101430699

FIGURE:
3

ATC

F:\AutoCAD\Cardno-ATC projects\031 MIAMI-OFFICE\Z101430699 Jak Service Center Miami\2018-083 POTABLE WELL LOCATIONS.dwg, 8/27/2018 2:01:17 PM



LEGEND:	
⌖	MONITORING WELL
●	SOIL BORING - JUN. 2018
Ⓜ	MAN HOLE COVER
☼	LIGHT POLE
	UTILITY POLE
	STORM WATER CATCH BASIN
	CONCRETE PAVEMENT
	ASPHALT PAVEMENT
	GRASS / LANDSCAPING / UNPAVED
UST	UNDERGROUND STORAGE TANK
AST	ABOVEGROUND STORAGE TANK

	APPROXIMATE PROPERTY BOUNDARY
x — x — x —	FENCE

DATE SAMPLED (mm/dd/yy)	
DEPTH SAMPLED (FEET BLS)	OVA/PID RESULT

OVA RESULTS IN PPM (parts per million).	
BLS	BELOW LAND SURFACE.
OVA	ORGANIC VAPOR ANALYZER.
PID	PHOTOIONIZATION DETECTOR.

0 Approximate Feet 20'

N W E S

NAME/ADDRESS:

JAK SERVICE CENTER (DBA UNITED FUEL)
FDEP FAC. ID# 13-8503663
6900 Southwest 8th Street
Miami, Miami-Dade County, Florida

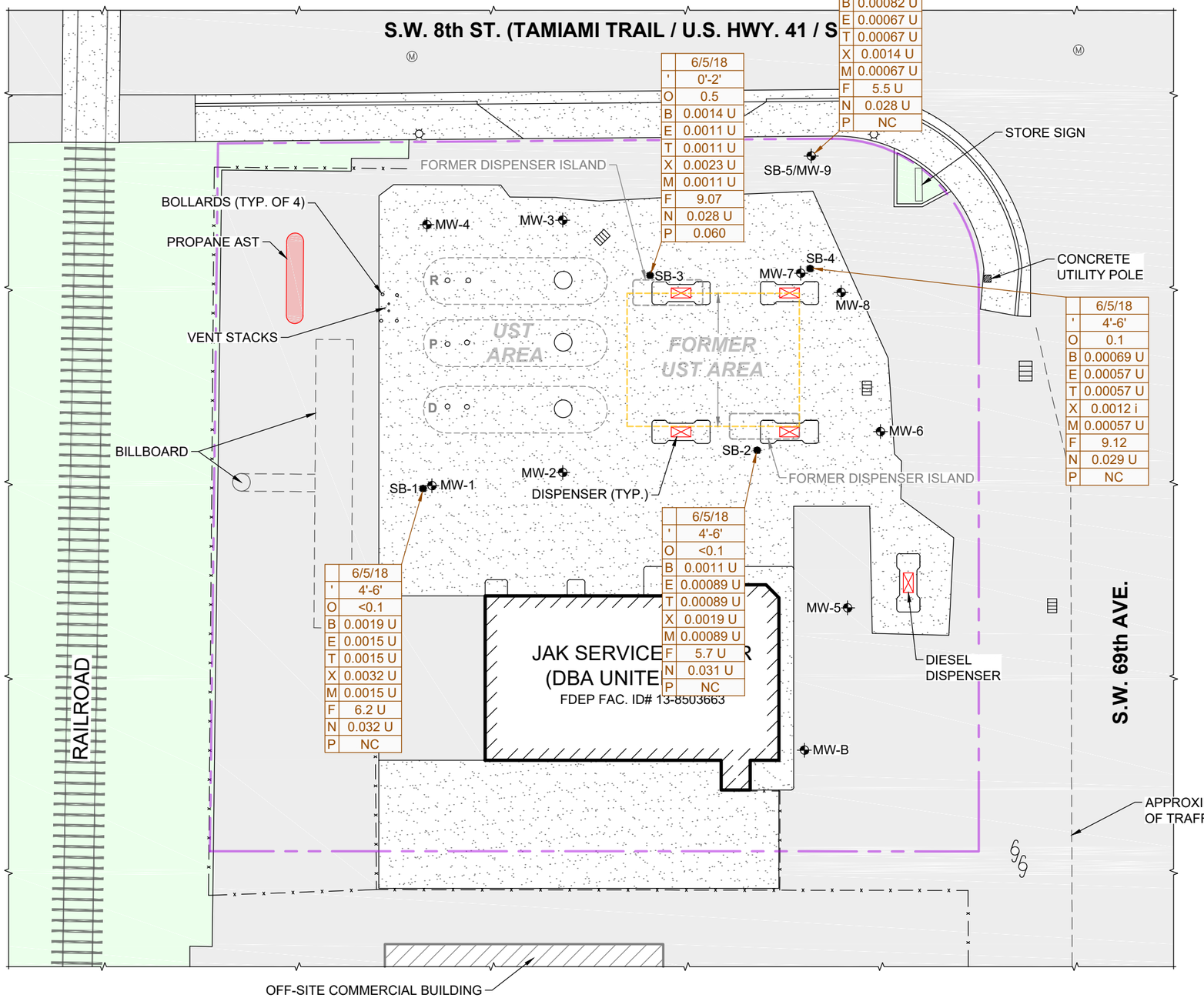
DRAWING TITLE:

SOIL SAMPLE ORGANIC VAPOR ANALYZER RESULTS

ATC
Certificate of Authorization #7783
9955 N.W. 116 Way, Suite 1
Miami, Florida 33178
(305) 882-8200
(305) 882-0466 FAX

DRAWN BY:	J.J.D.
CHECKED BY:	D.W.S.
PROJECT NO.	Z101430699

FIGURE NO. **4**



	6/5/18
'	2'-4'
O	0.3
B	0.00082 U
E	0.00067 U
T	0.00067 U
X	0.0014 U
M	0.00067 U
F	5.5 U
N	0.028 U
P	NC

	6/5/18
'	0'-2'
O	0.5
B	0.0014 U
E	0.0011 U
T	0.0011 U
X	0.0023 U
M	0.0011 U
F	9.07
N	0.028 U
P	0.060

	6/5/18
'	4'-6'
O	0.1
B	0.00069 U
E	0.00057 U
T	0.00057 U
X	0.0012 i
M	0.00057 U
F	9.12
N	0.029 U
P	NC

	6/5/18
'	4'-6'
O	<0.1
B	0.0011 U
E	0.00089 U
T	0.00089 U
X	0.0019 U
M	0.00089 U
F	5.7 U
N	0.031 U
P	NC

	6/5/18
'	4'-6'
O	<0.1
B	0.0019 U
E	0.0015 U
T	0.0015 U
X	0.0032 U
M	0.0015 U
F	6.2 U
N	0.032 U
P	NC

LEGEND:	
⊕	MONITORING WELL
●	SOIL BORING - JUN. 2018
Ⓜ	MAN HOLE COVER
☼	LIGHT POLE
	UTILITY POLE
	STORM WATER CATCH BASIN
	CONCRETE PAVEMENT
	ASPHALT PAVEMENT
	GRASS / LANDSCAPING / UNPAVED
UST	UNDERGROUND STORAGE TANK
AST	ABOVEGROUND STORAGE TANK

	APPROXIMATE PROPERTY BOUNDARY
x — x — x	FENCE

	DATE SAMPLED (mm/dd/yy)
'	DEPTH SAMPLED (FEET BLS)
O	NET OVA READING
B	BENZENE
E	ETHYLBENZENE
T	TOLUENE
X	TOTAL XYLENES
M	METHYL TERT-BUTYL ETHER (MTBE)
F	TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (TRPH) BY FL-PRO
N	NAPHTHALENE
P	BENZO(A)PYRENE EQUIVALENT

ALL RESULTS IN mg/kg (milligrams per kilogram ≈ parts per million); OVA RESULTS IN PPM (parts per million).

BOLD TEXT indicates value exceeds Soil Cleanup Target Level (SCTL) based on Groundwater Leachability.

Most recent sampling event is highlighted.

BLS	BELOW LAND SURFACE.
OVA	ORGANIC VAPOR ANALYZER.
i	INDICATES REPORTED VALUE IS BETWEEN METHOD DETECTION LIMIT AND PRACTICAL QUANTITATION LIMIT.
U	ANALYTE NOT DETECTED AT METHOD DETECTION LIMIT.
NC	NOT CALCULATED.

0 Approximate Feet 20'

NAME/ADDRESS:

JAK SERVICE CENTER (DBA UNITED FUEL)
FDEP FAC. ID# 13-8503663
6900 Southwest 8th Street
Miami, Miami-Dade County, Florida

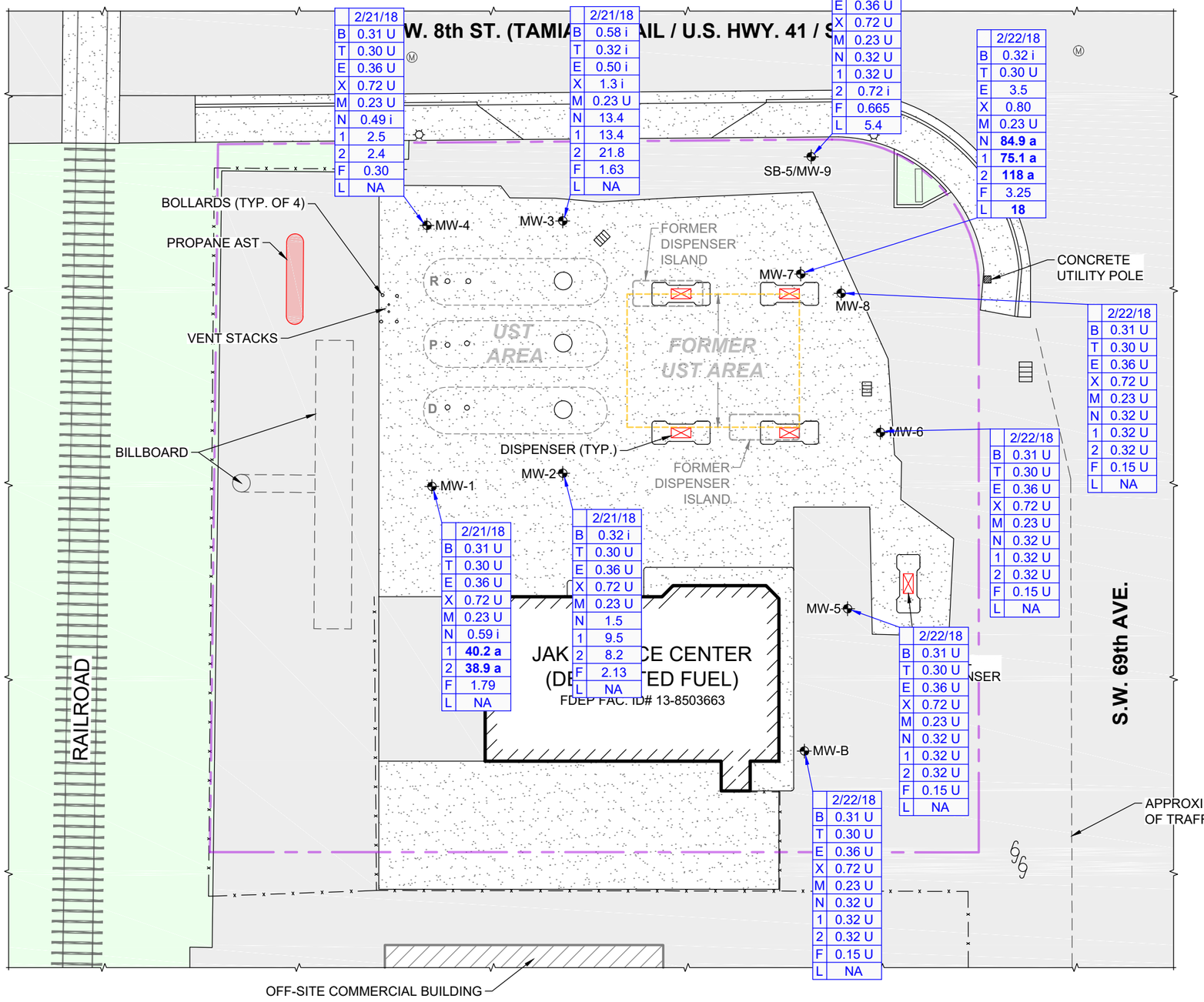
DRAWING TITLE:

SOIL SAMPLE ANALYTICAL RESULTS

ATC
Certificate of Authorization #7783
9955 N.W. 116 Way, Suite 1
Miami, Florida 33178
(305) 882-8200
(305) 882-0466 FAX

DRAWN BY:	J.J.D.
CHECKED BY:	D.W.S.
PROJECT NO.	Z101430699

FIGURE NO. **5**



	2/21/18
B	0.31 U
T	0.30 U
E	0.36 U
X	0.72 U
M	0.23 U
N	0.49 i
1	2.5
2	2.4
F	0.30
L	NA

	2/21/18
B	0.58 i
T	0.32 i
E	0.50 i
X	1.3 i
M	0.23 U
N	13.4
1	13.4
2	21.8
F	1.63
L	NA

	6/7/18
B	0.31 U
T	0.30 U
E	0.36 U
X	0.72 U
M	0.23 U
N	0.32 U
1	0.32 U
2	0.72 i
F	0.665
L	5.4

	2/22/18
B	0.32 i
T	0.30 U
E	3.5
X	0.80
M	0.23 U
N	**84.9 a**
1	**75.1 a**
2	**118 a**
F	3.25
L	**18**

	2/22/18
B	0.31 U
T	0.30 U
E	0.36 U
X	0.72 U
M	0.23 U
N	0.32 U
1	0.32 U
2	0.32 U
F	0.15 U
L	NA

	2/22/18
B	0.31 U
T	0.30 U
E	0.36 U
X	0.72 U
M	0.23 U
N	0.32 U
1	0.32 U
2	0.32 U
F	0.15 U
L	NA

	2/21/18
B	0.31 U
T	0.30 U
E	0.36 U
X	0.72 U
M	0.23 U
N	0.59 i
1	**40.2 a**
2	**38.9 a**
F	1.79
L	NA

	2/21/18
B	0.32 i
T	0.30 U
E	0.36 U
X	0.72 U
M	0.23 U
N	1.5
1	9.5
2	8.2
F	2.13
L	NA

	2/22/18
B	0.31 U
T	0.30 U
E	0.36 U
X	0.72 U
M	0.23 U
N	0.32 U
1	0.32 U
2	0.32 U
F	0.15 U
L	NA

	2/22/18
B	0.31 U
T	0.30 U
E	0.36 U
X	0.72 U
M	0.23 U
N	0.32 U
1	0.32 U
2	0.32 U
F	0.15 U
L	NA

LEGEND:	
⌖	MONITORING WELL
	SOIL BORING - JUN. 2018
Ⓜ	MAN HOLE COVER
☼	LIGHT POLE
	UTILITY POLE
	STORM WATER CATCH BASIN
	CONCRETE PAVEMENT
	ASPHALT PAVEMENT
	GRASS / LANDSCAPING / UNPAVED
UST	UNDERGROUND STORAGE TANK
AST	ABOVEGROUND STORAGE TANK

	APPROXIMATE PROPERTY BOUNDARY
x — x — x — x	FENCE

	SAMPLE DATE (M/D/Y)
B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	TOTAL XYLENES
M	METHYL TERT-BUTYL ETHER (MTBE)
N	NAPHTHALENE
1	1-METHYLNAPHTHALENE
2	2-METHYLNAPHTHALENE
F	TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (TRPH) BY FL-PRO
L	LEAD

ALL RESULTS IN µg/L (micrograms per liter ≈ parts per billion) EXCEPT TRPH IN mg/L (milligrams per liter ≈ parts per million).

BOLD TEXT indicates concentration exceeds Groundwater Cleanup Target Level (GCTL).

MOST RECENT SAMPLING EVENT HIGHLIGHTED.

I	INDICATES REPORTED VALUE IS BETWEEN METHOD DETECTION LIMIT AND PRACTICAL QUANTITATION LIMIT.
U	ANALYTE NOT DETECTED AT METHOD DETECTION LIMIT.
a	RESULTS FROM RUN 2.
NS	NOT SAMPLED FOR THIS PARAMETER.

0 Approximate Feet 20'

NAME/ADDRESS:

JAK SERVICE CENTER (DBA UNITED FUEL)
FDEP FAC. ID# 13-8503663
6900 Southwest 8th Street
Miami, Miami-Dade County, Florida

DRAWING TITLE:

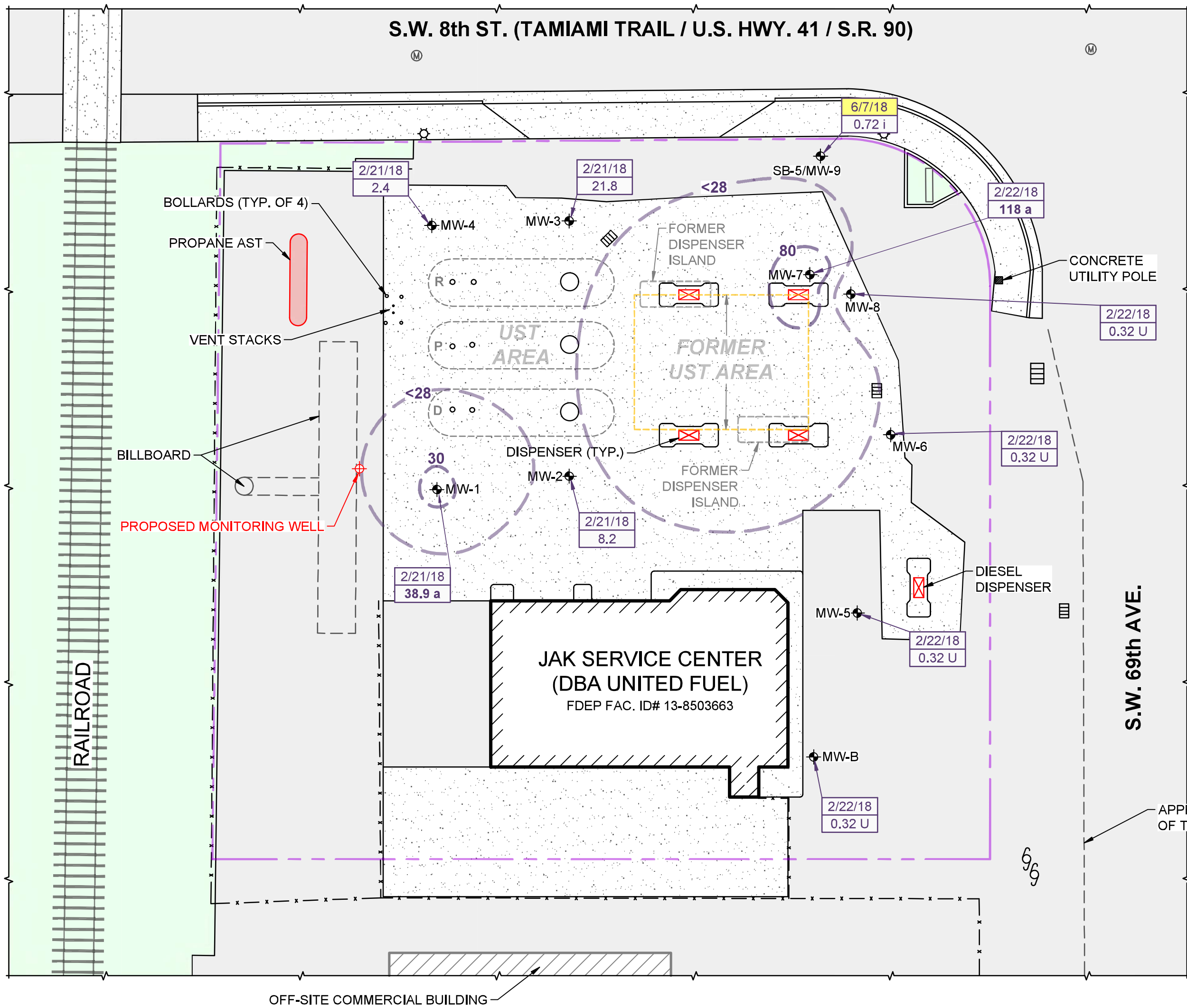
GROUNDWATER ANALYTICAL RESULTS MAP

ATC
Certificate of Authorization #7783
9955 N.W. 116 Way, Suite 1
Miami, Florida 33178
(305) 882-8200
(305) 882-0466 FAX

DRAWN BY:	J.J.D.
CHECKED BY:	D.W.S.
PROJECT NO.	Z101430699

FIGURE NO. 6

F:\AutoCAD\Cardno-ATC projects\031.MIAMI-OFFICE\Z101430699 Jak Service Center Miami\2018-0816 GWQ 2018-06.dwg, 8/27/2018 2:09:24 PM



LEGEND:	
	PROPOSED MONITORING WELL (QTY. 1)
	MONITORING WELL
	SOIL BORING - JUN. 2018
	MAN HOLE COVER
	LIGHT POLE
	UTILITY POLE
	STORM WATER CATCH BASIN
	CONCRETE PAVEMENT
	ASPHALT PAVEMENT
	GRASS / LANDSCAPING / UNPAVED
UST	UNDERGROUND STORAGE TANK
AST	ABOVEGROUND STORAGE TANK

	APPROXIMATE PROPERTY BOUNDARY
	FENCE

SAMPLE DATE (mm/dd/yy)
DISSOLVED 2-METHYLNAPHTHALENE CONCENTRATION

µg/L — INFERRED DISSOLVED 2-METHYLNAPHTHALENE PLUME

ALL RESULTS IN µg/L (micrograms per liter ≈ parts per billion).
Most recent sampling event highlighted.
BOLD TEXT indicates concentration exceeds Groundwater Cleanup Target Level (GCTL).
Natural Attenuation Default Concentration (NADC).
2-METHYLNAPHTHALENE GCTL = 28 µg/L.
2-METHYLNAPHTHALENE NADC = 280 µg/L.

U	ANALYTE NOT DETECTED AT METHOD DETECTION LIMIT.
I	INDICATES REPORTED VALUE IS BETWEEN METHOD DETECTION LIMIT AND PRACTICAL QUANTITATION LIMIT.
a	RESULTS FROM RUN 2.

0 Approximate Feet 20'

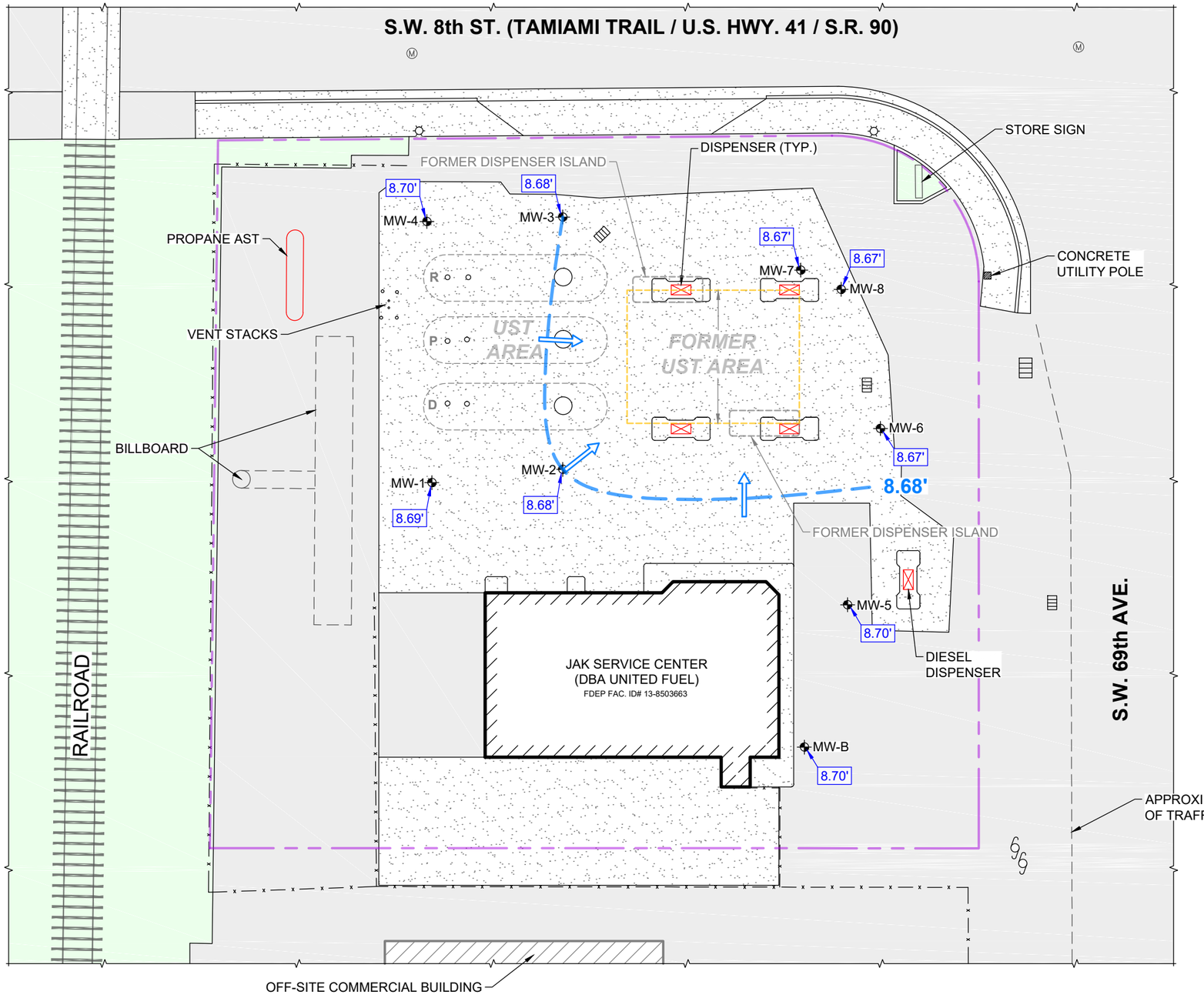
NAME/ADDRESS:
JAK SERVICE CENTER (DBA UNITED FUEL)
FDEP FAC. ID# 13-8503663
6900 Southwest 8th Street
Miami, Miami-Dade County, Florida

DRAWING TITLE:
INFERRED EXTENTS OF DISSOLVED 2-METHYLNAPHTHALENE

ATC
Certificate of Authorization #7783
9955 N.W. 116 Way, Suite 1
Miami, Florida 33178
(305) 882-8200
(305) 882-0466 FAX

DRAWN BY: J.J.D.
CHECKED BY: D.W.S.
PROJECT NO. Z101430699
FIGURE NO. 9

G:\AutoCAD\Cardno-ATC projects\031.MIAMI-OFFICE\Z101430699 Jak Service Center Miami\2018-08\9 GW 2MNAPH PLUME 2018-06.dwg, 8/29/2018 6:18:51 PM



LEGEND:	
⌖	MONITORING WELL
Ⓜ	MAN HOLE COVER
☼	LIGHT POLE
	UTILITY POLE
	STORM WATER CATCH BASIN
	CONCRETE PAVEMENT
	ASPHALT PAVEMENT
	GRASS / LANDSCAPING / UNPAVED
UST	UNDERGROUND STORAGE TANK
AST	ABOVEGROUND STORAGE TANK

	APPROXIMATE PROPERTY BOUNDARY
— x — x — x —	FENCE

FEET	EQUIPOTENTIAL LINE
	GROUNDWATER FLOW DIRECTION
FEET	WATER TABLE ELEVATION

0 Approximate Feet 20'

NAME/ADDRESS:

JAK SERVICE CENTER (DBA UNITED FUEL)
FDEP FAC. ID# 13-8503663
6900 Southwest 8th Street
Miami, Miami-Dade County, Florida

DRAWING TITLE:

GROUNDWATER ELEVATION CONTOUR MAP 2/21/2018

Certificate of Authorization #7783

9955 N.W. 116 Way, Suite 1
Miami, Florida 33178
(305) 882-8200
(305) 882-0466 FAX

DRAWN BY:	J.J.D.
CHECKED BY:	D.W.S.
PROJECT NO.	Z101430699

FIGURE NO. **10**

F:\AutoCAD\Cardno-ATC projects\031 MIAMI-OFFICE\Z101430699 Jak Service Center Miami\2018-08\10 GWE 2018-02-21.dwg, 8/29/2018 4:11:19 PM